



Tamil Nadu Newsprint and Papers Limited



(A Government of Tamil Nadu Enterprise)

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MEP/EC/COMPLIANCE/14

Nov 15, 2024

The Deputy Director General of Forests (C),
Ministry of Environment, Forest & Climate Change,
Integrated Regional Office,
1st Floor, Additional Office Block for GPOA, Shastri Bhawan,
Haddows Road, Nungampakkam, Chennai 600 006.

Sir,

Sub: TNPL Unit -II - Proposed Mill Expansion Plan - Installation of Paper Machine, Pulp Mill, Chemical Recovery Island and Augmentation of Co-Generation Plant and Utilities at Mondipatti village, K. Periyapatti village and Chettichatram village of Manapparai Taluk, Trichy district - Submission of six monthly compliance report for the conditions stipulated in EC accorded by MOEFCC for the period from April'24 to September'24 - reg

Ref: Environmental Clearance F.NO.J-11011/172/2017-IA-II (I) dated 04.04.2019 accorded for TNPL Unit-II by MOEFCC

This has reference to the Environmental Clearance (EC) accorded by MOEFCC for the Proposed Mill Expansion Plan - Installation of Paper Machine, Pulp Mill, Chemical Recovery Island and Augmentation of Co-Generation Plant and Utilities by TNPL. In compliance to points no. (3) under miscellaneous conditions of the EC, we are herewith submitting the point - wise compliance report for the various conditions stipulated in EC vide reference cited above for the period ending April'24 to September'24.

This is for your kind information and records.

Thanking you,

Yours faithfully,

For TAMIL NADU NEWSPRINT AND PAPERS LIMITED,

(GIRISH A. DESHPANDE)

GENERAL MANAGER (R&D-QA)

- CC:
- (1) The Member Secretary, SEIAA, 3rd Floor, Panagal Maaligal, No.1 Jeenis Road, Saidapet, Chennai - 600 005.
 - (2) The Member Secretary, TNPCB, 76 Mount Salai, Guindy Chennai - 600 032.
 - (3) The Regional Director, Central Pollution Control Board, Second Floor, 77-A, South Avenue Road, Ambatur Industrial Estate, Chennai - 600 058
 - (4) The Joint Chief Environmental Engineer, TNPCB, 25, SIDCO Industrial Estate, Thuvakudi, Trichy - 15.
 - (5) The District Environmental Engineer, TNPCB, 25, SIDCO Industrial Estate, Thuvakudi, Trichy - 15

TNPL Corporate Office

67, Mount Road, Guindy, Chennai, TN, India - 600 032.
Phone: 044-22354415,16,18 22301094 to 97
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TNPL Unit - I - Paper Plant

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TNPL – MAKER OF BAGASSE BASED ECO – FRIENDLY PAPER

Half Yearly Compliance Report**2024****01 Dec(01 Apr - 30 Sep)****Acknowledgement**

Proposal Name	Mill Expansion Plan of Unit-2, Installation of Paper Machine, Pulp Mill, Chemical Recovery Island, and Augmentation of Co-Generation Plant and utilities at TNPL, Unit2, Mondipatti, Trichy.		
Name of Entity / Corporate Office	TAMIL NADU NEWSPRINT AND PAPERS LIMITED		
Village(s)	N/A		
District	TIRUCHIRAPPALLI		
Proposal No.	IA/TN/IND/88943/2013	Category	Industrial Projects - 1
Plot / Survey / Khasra No.	N/A	Sub-District	N/A
State	TAMIL NADU	Entity's PAN	*****2935J
MoEF File No.	SW/88939/2018	Entity name as per PAN	Tamil Nadu Newsprint and Papers Limited

Compliance Reporting Details

Reporting Year	2024
Remarks (if any)	Submission of six monthly compliance report for the conditions stipulated in EC accorded by MOEFCC for the period from April 2024 to September 2024
Reporting Period	01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / Corporate Office TAMIL NADU NEWSPRINT AND PAPERS LIMITED

	Project Area as per EC Granted	Actual Project Area in Possession
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	874.46	874.46
Total	874.46	874.46

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Printing and Writing Paper	Tons per Annum (TPA)	N/A	1,65,000	Nil	-
2	Paper Board	Tons per Annum (TPA)	31/03/2027	2,00,000	195437	2,00,000
3	ECF (Elemental Chlorine Free) Chemical Wood Pulp	Tons per Annum (TPA)	31/03/2027	1,40,000	124904	1,40,000
4	Power	MW	31/03/2027	50	25	50
5	Steam	Others:Tons Per Hour	31/03/2027	180	78	180

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall take necessary steps for control of odour.

<p>PPs Submission: Complied</p> <p>Necessary steps were taken for collection of non - condensable gas (NCG) and incineration mechanism were in place to control the odour emissions. The details of the mechanism involved in the odour control process are given in Annexure.</p>	<p>Date: 16/11/2024</p>
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2	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall adhere to Zero Liquid Discharge.
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<p>PPs Submission: Complied</p> <p>Effluent Treatment Plant (ETP) of 9 MLD and 15 MLD capacity was installed to treat the effluents generated from the unit. The entire treated effluent is fully utilized to irrigate about 7.88 Lakhs of tree saplings in 643.67 Acres earmarked for green belt development including housing colony located in the Mondipatti, K. Periyapatti and Chettichatram through drip irrigation. Green Belt developed using treated water is attached as Annexure.</p>	<p>Date: 16/11/2024</p>
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General Conditions

Sr.No.	Condition Type	Condition Details
1	Human Health Environment	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented

<p>PPs Submission: Complied</p> <p>Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan is implemented. Onsite Emergency Preparedness plan duly approved by</p>	<p>Date: 22/11/2024</p>
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Director of Industrial Safety and Health on 27/07/2022 is attached as Annexure.		
2	AIR QUALITY MONITORING AND PRESERVATION	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
PPs Submission: Complied Wind shelter fence provided near the raw material stock piles. Photograph attached as Annexure.		Date: 16/11/2024
3	Statutory compliance	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
PPs Submission: Complied TNPL obtained Consent To Operate (CTO) for Mill Expansion in a phased manner for Board Plant and Captive Power Plant. 1a. Consent to Operate (Phase - 1 of Expansion) for Board Plant - Order Number 2207243671275 Dated 15.07.2022 under Section 21 of Air act, Valid till 31.03.2027. 1b. Consent to Operate (Phase - 1 of Expansion) for Board Plant - Order Number 2207143671275 Dated 15.07.2022 under Section 25 of Water act, Valid till 31.03.2027. 2a. Consent to Operate (Phase - 1 of Expansion) for Captive Power Plant - Order Number 2207243608442 Dated 15.07.2022 under Section 21 of Air act, Valid till 31.03.2027. 2b. Consent to Operate (Phase - 1 of Expansion) for Captive Power Plant - Order Number 2207143608442 Dated 15.07.2022 under Section 25 of Water act, Valid till 31.03.2027. Consent Order copies are attached as Annexure.		Date: 16/11/2024
4	Statutory compliance	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
PPs Submission: Complied TNPL Obtained permission from District Collector, Trichy for drawl of water from River Kavery for a period of Five Years vide letter A1/15426/2020 dated 26.09.2020 which has validity upto 31/10/2025. Copy of permission is attached as Annexure.		Date: 16/11/2024
5	Statutory compliance	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
PPs Submission: Complied Hazardous Waste Authorization - Order Number 24HFC45404642 dated 09.02.2024 which has validity upto 31.03.2028. Authorization copy is attached as Annexure.		Date: 16/11/2024
6	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 546 (E) dated 30th August 2008 as amended from time to time and S.O. 3305 (E) dated 7thDecember 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and the systems be calibrated according to equipment supplier's specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
PPs Submission: Complied Continuous Emission Monitoring System (CEMS) facility available for 24x7 monitoring of stack emission of Power Boilers, Chemical Recovery Boiler and Lime Kiln and the same are connected to TNPCB and CPCB servers. The system was calibrated recently on 25.01.2024. Supporting documents for Online Monitoring of stack emissions and the calibration reports are attached as		Date: 16/11/2024

Annexure.		
7	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.
PPs Submission: Complied Fugitive emissions survey is being carried out on monthly basis at seven Locations through independent labs possessing valid accreditation. ROA for the period April 2024 to September 2024 is attached as Annexure.		Date: 16/11/2024
8	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall install system to carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.
PPs Submission: Partially Complied Out of four, Two Continuous Ambient Air Quality monitoring systems (CAAQMS) has been installed and connected to TNPCB and CPCB servers. Remaining two CAAQMS installation will be taken up after MEP Phase - 2. Supporting documents of CAAQMS installed is attached as Annexure.		Date: 16/11/2024
9	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
PPs Submission: Complied Monthly summary report of continuous air quality monitoring and stack emissions of Power Boiler, Lime Kiln, Recovery Boiler and also the results of manual air and stack emission monitoring carried out through independent labs possessing valid accreditation for the period April 2024 to September 2024 is attached as Annexure.		Date: 16/11/2024
10	AIR QUALITY MONITORING AND PRESERVATION	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
PPs Submission: Complied Appropriate Air Pollution Control (APC) system is provided to control fugitive emission and stack emissions. ESPs were installed at power boiler stack of 100m height, Recovery Boiler stack of 90m height, Lime Kiln stack of 54.8m height. Water sprinkling arrangements at coal storage yard, mobile road dust collecting machine, closed system for coal conveyors and dust extraction system at transfer points were installed. Details are attached as Annexure.		Date: 16/11/2024
11	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall install high volume, low concentration NCG collection & destruction system to mitigate all malodorous gases emitted.
PPs Submission: Complied All the requisite systems to control NCG and malodorous gases installed and being kept in operation. Detailed are attached as Annexure.		Date: 16/11/2024
12	AIR QUALITY MONITORING AND PRESERVATION	Emissions shall be controlled from chemical recovery section through primary and secondary venturi scrubbers.

	PRESERVATION	
<p>PPs Submission: Complied All the emissions from chemical recovery section are controlled through NCG collection and incineration system. Details are attached as Annexure</p>		<p>Date: 16/11/2024</p>
13	AIR QUALITY MONITORING AND PRESERVATION	Pollution control system in the pulp and paper plant shall be provided as per the CREP Guidelines of CPCB.
<p>PPs Submission: Complied CREP guidelines issued by CPCB for large pulp and Paper Mills are being implemented and maintained. Details are attached as Annexure.</p>		<p>Date: 16/11/2024</p>
14	AIR QUALITY MONITORING AND PRESERVATION	Sufficient number of mobile or stationary vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
<p>PPs Submission: Complied Road sweeping machine and Vacuum cleaners are engaged to clean the roads and shop floors respectively. Photograph is attached as Annexure.</p>		<p>Date: 16/11/2024</p>
15	AIR QUALITY MONITORING AND PRESERVATION	In case of treatment process disturbances/failure of pollution control equipment adopted by the unit, the respective unit shall be shut down and shall not be restarted until the control measures are rectified to achieve the desired efficiency.
<p>PPs Submission: Agreed to Comply TNPL agreed to comply with this condition.</p>		<p>Date: 16/11/2024</p>
16	AIR QUALITY MONITORING AND PRESERVATION	The company shall install Oxygen Delignification (ODL) Plant and shall maintain AOX below 1 kg/tonne of paper production
<p>PPs Submission: Complied Two stage Oxygen Delignification (ODL) has been installed in Hardwood Pulpmill and AOX has been maintained below 1 kg/tonne of paper production. Details are attached as Annexure.</p>		<p>Date: 16/11/2024</p>
17	AIR QUALITY MONITORING AND PRESERVATION	Elemental Chlorine Free (ECF) technology shall be used and lime kiln shall be installed to manage lime sludge
<p>PPs Submission: Complied Elemental Chlorine Free (ECF) bleaching technology is adopted in Hard Wood Pulpmill. Lime Kiln installed and is in operation to handle lime sludge. Details are attached as Annexure.</p>		<p>Date: 16/11/2024</p>
18	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall install 24x7 continuous effluent monitoring with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 546 (E) dated 30th August 2008 as amended from time to time and S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
<p>PPs Submission: Complied Continuous effluent monitoring System (CEFMS) is installed for 24x7 monitoring of effluent which have been to TNPCB and CPCB servers. The system is being calibrated periodically. Supporting</p>		<p>Date: 21/11/2024</p>

documents of Online Monitoring of effluent and the calibration report are attached as Annexure.		
19	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.
PPs Submission: Complied Ground Water quality is monitored by analysing well water samples in twelve locations once in three months and Piezometer samples in seven locations once in six months through independent labs possessing valid accreditation. ROA for the period April 2024 to September 2024 is attached as Annexure.		Date: 21/11/2024
20	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
PPs Submission: Complied Monthly summary report of continuous effluent monitoring and results of manual effluent monitoring carried out through independent labs possessing valid accreditation for the period April 2024 to September 2024 is attached as Annexure.		Date: 21/11/2024
21	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall provide the ETP to meet the standards prescribed in vide G.S.R. No. 546 (E) dated 30th August 2008 as amended from time to time and S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time.
PPs Submission: Complied Effluent Treatment Plant of 15 MLD with primary clarifier, MBBR technology, Biological activated sludge process with secondary clarifier, DAF system and Pressure sand filter were installed towards treatment of effluent generated from various sections to meet the standards prescribed by the Board. Details are attached as Annexure.		Date: 21/11/2024
22	WATER QUALITY MONITORING AND PRESERVATION	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
PPs Submission: Complied Sewage Treatment Plants (STPs) were provided at board units (70 KLD), Co- Gen Plant (10 KLD), Pulpmill and FH area (10 KLD), Housing Colony (60 KLD) for treatment of domestic wastewater. Sewage water samples are analysed through independent labs possessing valid accreditation. Details of Sewage Treatment Plant and ROA carried out through independent labs possessing valid accreditation for the period April 2024 to September 2024 is attached as Annexure.		Date: 21/11/2024
23	WATER QUALITY MONITORING AND PRESERVATION	Garland drains and collection pits shall be provided for each stock pile to arrest the runoff in the event of heavy rains and to check the water pollution due to surface run off.
PPs Submission: Complied Storm water drains and collection pits are provided to arrest the run off in the event of heavy rains and to check the water pollution due to surface run off. Photographs are attached as Annexure.		Date: 21/11/2024
24	WATER QUALITY MONITORING AND PRESERVATION	Tyre washing facilities shall be provided at the entrance of the plant gate(s).

<p>PPs Submission: Complied Temporary Tyre washing facilities are provided at the entrance of the plant gate. Photograph attached as Annexure.</p>		<p>Date: 21/11/2024</p>
25	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<p>Ensure that there is no black liquor spillage in the area of pulp mill, no use of elemental chlorine for bleaching in mill, installation of hypo preparation plant.</p>
<p>PPs Submission: Complied TNPL is having alkali pit where all black liquor is collected at one place and pumped back to reject tank and from there it is taken to digester blow tank so there is no spillage in Pulpmill. Chlorine di oxide is used for bleaching the pulp and hence no use of Elemental chlorine for bleaching. Details are attached as Annexure.</p>		<p>Date: 22/11/2024</p>
26	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<p>Ensure that no spillage of foam in chemical recovery plant, no discharge of foul condensate generated from MEE in the Chemical recovery process directly to ETP.</p>
<p>PPs Submission: Complied TNPL ensures that there is no spillage in Chemical Recovery Plant. Foul condensate generated from MEE is concentrated in stripping column and pumped to methanol column to separate methanol and CNCG. CNCG is fired in lime kiln. Methanol sent to storage tank and then pumped for firing in lime kiln. Hence no discharge of foul condensate to ETP. Details are attached as Annexure.</p>		<p>Date: 22/11/2024</p>
27	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<p>The project proponent shall practice rainwater harvesting to maximum possible extent.</p>
<p>PPs Submission: Complied Rain Water Harvesting facilities available in the plant. Details are attached as Annexure.</p>		<p>Date: 22/11/2024</p>
28	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<p>Water meters shall be provided at the inlet to all unit processes in the steel plants.</p>
<p>PPs Submission: Complied Water meters are provided at the inlet of Paper Board Plant, Captive Power Plant, Pulpmill, Recovery Island and all unit processes. Photograph is attached as Annexure.</p>		<p>Date: 22/11/2024</p>
29	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<p>The project proponent shall make efforts to minimise water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.</p>
<p>PPs Submission: Complied TNPL adopts new advanced technology with maximum recycling of treated effluent.</p>		<p>Date: 22/11/2024</p>
30	<p>Noise Monitoring & Prevention</p>	<p>Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.</p>
<p>PPs Submission: Complied Noise level survey is carried out through independent labs possessing valid accreditation. ROA of Noise level survey for the period April 2024 to September 2024 is attached as Annexure.</p>		<p>Date: 22/11/2024</p>
31	<p>Noise Monitoring & Prevention</p>	<p>The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.</p>

<p>PPs Submission: Complied Noise levels are carried out through NABL accredited laboratory at eight locations. Monitored parameters are within prescribed limits.</p>		<p>Date: 22/11/2024</p>
32	ENERGY PRESERVATION MEASURES	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
<p>PPs Submission: Being Complied Installed 17 Nos of Solar lights in colony area and 5 nearby villages. Further, 1.1 MW DC capacity Roof top solar plant installation is under progress. Purchase Order copy for supply, Installation and Commissioning of Roof Top Power Plant is attached as Annexure</p>		<p>Date: 22/11/2024</p>
33	ENERGY PRESERVATION MEASURES	Provide LED lights in their offices and residential areas.
<p>PPs Submission: Complied Only LED lights are placed in the office buildings and residential areas of TNPL Unit - II. Photographs are attached as Annexure.</p>		<p>Date: 22/11/2024</p>
34	WASTE MANAGEMENT	Deinking sludge and fine sludge from ETP shall be disposed through TSDF.
<p>PPs Submission: Complied There is no deinking process in TNPL Unit - II.</p>		<p>Date: 22/11/2024</p>
35	WASTE MANAGEMENT	Black Liquor shall be separately processed for recovery of energy and chemical in a Chemical Recovery Process.
<p>PPs Submission: Complied A separate chemical recovery plant including Recovery Boiler is installed and in operation to recover 1100 TPD of Black Liquor solids from black liquor. Details are attached as Annexure.</p>		<p>Date: 22/11/2024</p>
36	WASTE MANAGEMENT	Sufficient number of colour coded waste collection bins shall be constructed at shop floors in each shop to systematically segregate and store waste materials generated at the shop floors (other than Process waste) in designated coloured bins for value addition by promoting reuse of such wastes and for good housekeeping.
<p>PPs Submission: Complied 5 Nos. of colour coded bins are placed at various places to systematically segregate and store waste materials. Details are attached as Annexure.</p>		<p>Date: 22/11/2024</p>
37	WASTE MANAGEMENT	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office. (in case of CPP)
<p>PPs Submission: Complied The entire fly ash is disposed to TNPL Cement plant and for Brick Manufacturers. Proof of disposal is attached as Annexure</p>		<p>Date: 22/11/2024</p>
38	WASTE MANAGEMENT	The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 20 I 6
<p>PPs Submission: Complied Used Oil and other Hazardous Waste are being disposed to authorized recyclers as per the</p>		<p>Date:</p>

Hazardous and Other waste (Management and Transboundary Movement) Rules, 2016.		22/11/2024
39	GREENBELT	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant
PPs Submission: Complied TNPL has planted 7.88 Lakhs of tree saplings in 643.67 acres earmarked for green belt development as per the details submitted as Annexure.		Date: 22/11/2024
40	GREENBELT	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.
PPs Submission: Complied Green House Gas (GHG) / scientific study for carbon sequestration including plantation was carried out by M/s. Howest Global, Coimbatore and the report is attached as Annexure.		Date: 22/11/2024
41	Human Health Environment	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
PPs Submission: Complied a) The facility is not involved in any process operations that are exposed to very high temperature. b) Boilers are fully insulated, and work zone temperatures are in line with the ambient temperatures hence heat stress impact is not envisaged. c) Adequate hall ventilation (Fresh air fan) has been provided in the paper board machine areas. d) Cool drinking water dispensing stations are provided across the facility as per the Factories act. e) Appropriate PPEs has been provided for the employees as per the Factory act. However, Heat Stress Analysis is carried out at board machine. Heat Stress Analysis report is attached as Annexure.		Date: 22/11/2024
42	Human Health Environment	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
PPs Submission: Complied Occupational Health centre (OHC) is established within the factory site and is in operation for Occupational health surveillance of the workers on a regular basis. TNPL also tied up with reputed hospitals for carrying out periodic health checks for the employees on regular basis and records are being maintained. OHC details and proof of health checkups are attached as Annexure.		Date: 22/11/2024
43	Human Health Environment	The proponent shall follow International Standards of safety for ClO ₂ generation and storage system, and ozone plant, and certification on regular basis may be submitted. Provision for adequate safety for personnel in case of any accidental leakage should be in place
PPs Submission: Complied International Standards of safety for ClO ₂ generation and storage system is being followed and also adequate safety for personnel is provided. Necessary PESO license is attached as Annexure.		Date: 22/11/2024
44	Corporate Environmental Responsibility	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
PPs Submission: Complied Applicable provisions under CER are compiled by TNPL. CER Budget allocation and Budget spent details are attached as Annexure. Also As per provisions contained in this Ministry's OM vide F.No.		Date: 22/11/2024

22-65/2017-IA.III dated 1st May 2018, implementation status on the concerns raised during public consultation is attached as Annexure.		
45	Corporate Environmental Responsibility	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental/ forest I wildlife norms I conditions and / or shareholders I stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
PPs Submission: Complied A well laid down Environmental Policy has been developed as part of Integrated Management System which is duly approved by Managing Director is in place. Copy of policy is Attached as Annexure. Any deviation or violation of the environmental norms or conditions is discussed in the board meeting.		Date: 22/11/2024
46	Corporate Environmental Responsibility	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
PPs Submission: Complied A separate Environmental cell is formed under the control of senior executive. Details are attached as Annexure.		Date: 22/11/2024
47	Corporate Environmental Responsibility	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
PPs Submission: Complied The action plan for implementing EMP and environmental conditions along with responsibility matrix of the company were approved by competent authority. The year wise funds earmarked for environmental protection measures were kept in separate account and not diverted for any other purpose. Detailed EMP of EIA on EIA study report is attached as Annexure.		Date: 22/11/2024
48	Corporate Environmental Responsibility	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
PPs Submission: Complied TNPL complies and certified with ISO 14001:2015 certification Environment Management System. Auditing of Environmental aspects and impacts of each process activity being done. Significant study and accordingly Standard Operating procedure being followed. Audit Report for EMS ISO 14001:2015 is attached as Annexure.		Date: 22/11/2024
49	Corporate Environmental Responsibility	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Pulp and Paper plants shall be implemented.
PPs Submission: Complied		Date:

CREP guidelines issued by CPCB for large pulp and Paper Mills are being implemented and maintained. Details are attached as Annexure.		22/11/2024
50	MISCELLANEOUS	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
PPs Submission: Complied Public notice given in two local newspapers dated 28.05.2019. A copy of the same is attached as Annexure.		Date: 22/11/2024
51	MISCELLANEOUS	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
PPs Submission: Complied A copy of the environmental clearance was submitted to the Heads of local bodies. Acknowledgement from the respective offices is submitted as Annexure.		Date: 22/11/2024
52	MISCELLANEOUS	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
PPs Submission: Complied Compliance Status of Environment Clearance conditions including results of monitoring data Is being uploaded in TNPL Website https://www.tnpl.com/compliance/ on half-yearly basis. Photograph attached as Annexure.		Date: 22/11/2024
53	MISCELLANEOUS	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
PPs Submission: Complied Electronic display board depicting Real time emission monitoring data has been installed in public domain, viz., near entrance gate. Photograph attached as Annexure.		Date: 22/11/2024
54	MISCELLANEOUS	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
PPs Submission: Complied Consent to Operate (CTO) for Board Plant and Captive Power were received on 15/07/2022 and commercial production commenced subsequently from the date of issue of CTO.		Date: 22/11/2024
55	MISCELLANEOUS	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).

<p>PPs Submission: Complied Complied with. As per Environmental Clearance F.NO.J-11011/172/2017-IA-II (I) dated 04.04.2019 accorded for TNPL Unit-II by MOEFCC, ECF Chemical Wood Pulpmill, Recovery Plant including Recovery Boiler, Lime Kiln, One TG of capacity 20 MW was implemented under Phase -1 of Mill Expansion Plan. Remaining Printing and Writing Paper Machine, One Power Boiler of Capacity 130 TPH and One TG of capacity 30MW will be taken up in due course.</p>		<p>Date: 22/11/2024</p>
56	MISCELLANEOUS	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
<p>PPs Submission: Agreed to Comply TNPL agreed to comply with this condition.</p>		<p>Date: 22/11/2024</p>
57	MISCELLANEOUS	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
<p>PPs Submission: Agreed to Comply TNPL agreed to comply with this condition.</p>		<p>Date: 22/11/2024</p>
58	MISCELLANEOUS	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
<p>PPs Submission: Complied Environmental Statement - Form V for the year 2023-24 is submitted to relevant authorities on 18.09.2024. Form V for the year 2023-24 is attached as Annexure.</p>		<p>Date: 22/11/2024</p>
59	MISCELLANEOUS	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
<p>PPs Submission: Complied Adhering to the stipulations made by TNPCB. CTO (Expansion) for the part of MEP obtained on 15/07/22 and compliance report is attached as Annexure.</p>		<p>Date: 22/11/2024</p>
60	MISCELLANEOUS	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
<p>PPs Submission: Complied TNPL abides by all the commitments and recommendations made in EIA/EMP report. Attached detailed EMP report as Annexure.</p>		<p>Date: 22/11/2024</p>
61	MISCELLANEOUS	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
<p>PPs Submission: Agreed to Comply TNPL agreed to comply with this condition.</p>		<p>Date: 22/11/2024</p>
62	MISCELLANEOUS	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the

		Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
PPs Submission: Agreed to Comply TNPL agreed to comply with this condition.		Date: 22/11/2024
63	MISCELLANEOUS	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
PPs Submission: Complied TNPL submits Six-monthly reports on the status of the compliance of the stipulated environmental conditions on Parivesh Portal on 28.05.2024. Screenshot depicting the submission of EC compliance for the period Apr 23 to Sep 23 and Oct 23 to Mar 24 is attached as Annexure.		Date: 22/11/2024
64	MISCELLANEOUS	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
PPs Submission: Agreed to Comply TNPL agreed to comply with this condition.		Date: 22/11/2024
65	MISCELLANEOUS	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
PPs Submission: Agreed to Comply TNPL agreed to comply with this condition.		Date: 22/11/2024
Visit Remarks		
Last Site Visit Report Date:		06/05/2024
Additional Remarks:		
<p>Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.</p>		

BRIEF WRITE-UP ON DNCG & CNCG COLLECTION AND INCINERATION

As part of Mill Expansion Plan, TNPL installed a 400 TPD Hardwood Pulp mill, along with connected Chemical Recovery System. During the Pulping process, certain reduced Sulphur based Non-Condensable Gases (NCG) is generated which will create odorous environment, in and around the mill area. In order to have an odour free environment, a state of the art technology has been considered right at the concept stage of the project. Accordingly, a full fledged NCG collection and incineration system has been installed which plays a vital role in helping the pulp mill meet strict environmental regulations as well as being a good neighbour in the surrounding community.

There are two main sources of NCG in a pulping process. Some sources emit a small, but highly concentrated amount (Concentrated NCG or CNCG), while others emit large volumes with low concentrations (Dilute NCG or DNCG). During the process, Dilute NCG is generated in the Pulp mill digester and the Black liquor storage areas, while Concentrated NCG is generated in the Black liquor evaporation process. The DNCG and CNCG are collected and incinerated through exclusive systems, as described below:

CNCG & Methanol Generation and incineration

The foul condensate from the Black liquor Evaporation plant is stripped through LP steam or first effect vapour. After stripping the Foul condensate is received as "A" condensate, which is recycled back in the process and the stripper outlet gas (SOG) is further stripped through LP steam in a methanol column. From the stripper column, CNCG is generated and the methanol is recovered in liquid form.

Methanol generated is stored in a storage tank and then used as fired in the Lime Kiln.

In addition to the CNCG generated from the SOG stripping of Evaporation plant, the gases emanating from Vacuum pump shall also be collected and transferred to Lime Kiln through a steam ejector, for firing.

In case of Lime Kiln stoppage, the CNCG is routed through a flare system, where the gases are fired.

Collection and incineration of DNCG

All storage tanks from Evaporator plant (Weak Black Liquor, Spill Liquor, Condensate storage tanks, HBL tank) vents are connected through a flap valve to collect the DNCG. The DNCG shall be scrubbed with cooling water and then through a blower it is sent to the Chemical Recovery Boiler.

Similarly, all storage tanks from Reausticising plant (White Liquor tanks, Green Liquor tanks, Dregs tanks, Weak white liquor tank, Dilution tank, wash water tank) vents are connected to collect the DNCG, for subsequent firing in the Chemical Recovery Boiler.

The Pulp mill has a separate collection system for the DNCG gases from the Digesters, Pulp Discharge tank and the Black liquor storage tanks. The DNCG system forms part of the Hardwood digester. The system delivers the DNCG after necessary scrubbing and joins the DNCG collected from the Evaporator and Reausticizing area, and fired into the Chemical Recovery Boiler.



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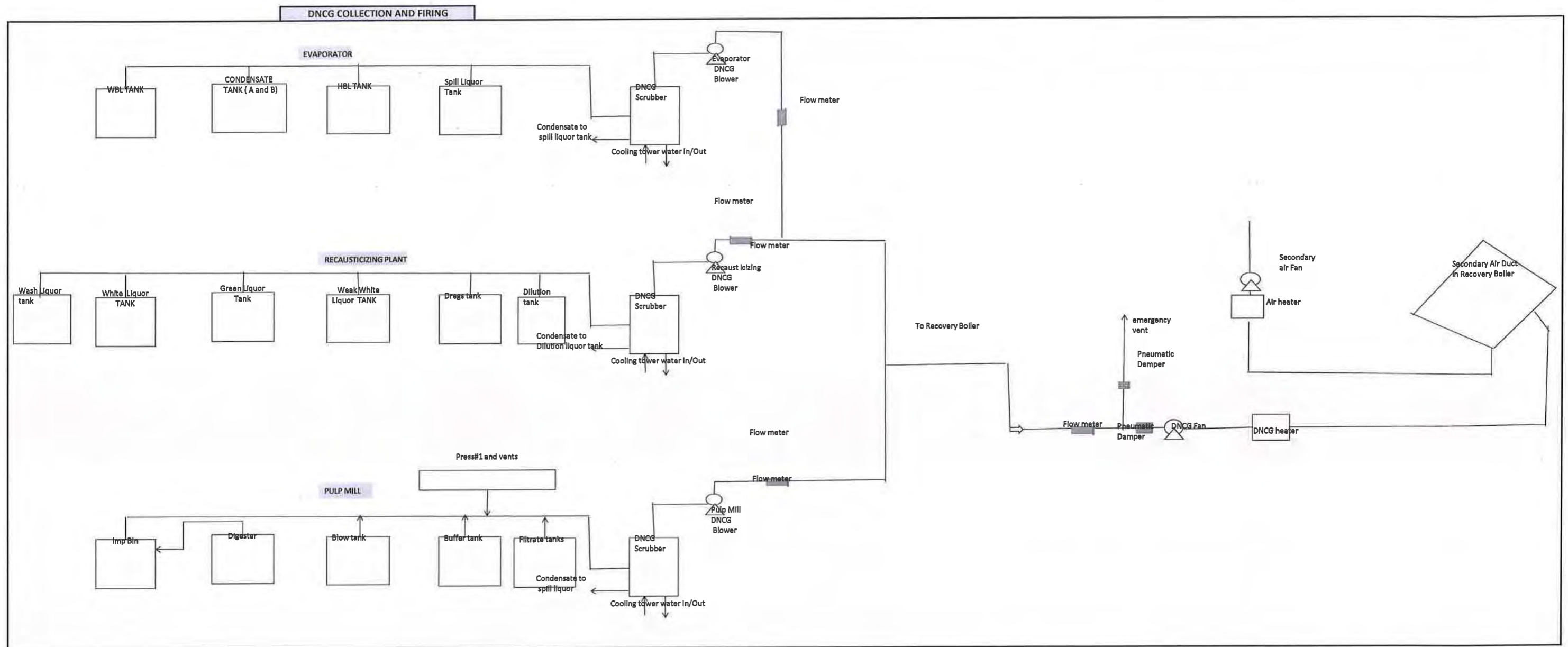
DNCG forms part of the secondary air in the Recovery Boiler. A DNCG fan in the Recovery Boiler receives gases from all the above areas and the gas pressure is raised to ensure entry of the DNCG without any interruption through the Secondary air duct. The DNCG fan speed is controlled by a Variable Frequency drive.


DNCG fan delivery first flows to the DNCG gas preheater. Gas is heated by both LP and MP steam gas preheater. Gas is preheated to match the secondary air duct temperature of 130-150 Deg C. After preheating gases are led to the secondary air duct.

A brief schematic diagram of the above systems is attached.

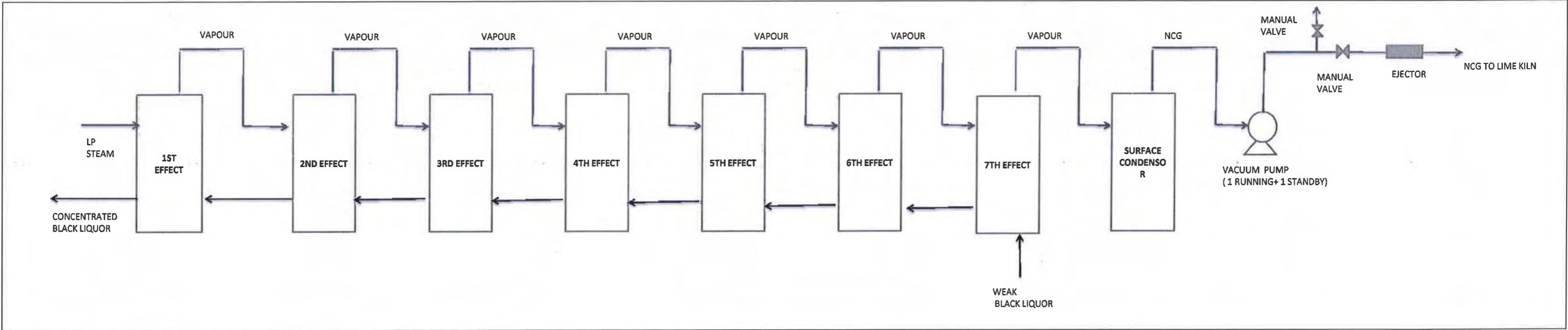
Capturing the CNCG and DNCG gases without allowing it into the atmosphere is a challenge. Yet, the reward can be significant. Not only the mill becomes odour free, but treating and recovering NCGs can also yield a "fuel" with significant heating value. This ensures a sustainable technology for mill operations, which aligns with the interest of the environment and society.


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Evaporator




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TNPL UNIT II

GREEN BELT DEVELOPMENT/ IRRIGATION SCHEME

The area allocated for greenery development under Captive Power Plant, Board Plant and Additional areas pertaining to TNPL Unit-II is summarized as below:

Power Plant (Mondipatti)

Total extent of Land Area (in Hectares)	16.187
Green belt/Irrigation area developed (in Hectares) :	6.465

Board Plant (Mondipatti)

Total extent of Land Area (in Hectares)	106.872
Green belt/Irrigation area developed (in Hectares) :	46.555

Additional area in Chettichatram & K. Periyapatti

Total extent of Land Area (in Hectares)	231.129
Green belt/Irrigation area developed (in Hectares) :	207.463

Total Green Belt/Irrigation Area (in Ha) : 5.665+36.155+210.663 = 272.949 Hect.

i.e. Total area covered under plantation using treated effluent = 252.483 Hect.

TABLE A: Summary of TNPL Unit II Tree planting details as on 30.09.2024

Sl No	Area	Total area so far covered in Hectares	Total No. of trees so far planted
01	Captive Power Plant (Mondipatti)	6.465	28,290
02	Board Plant (Mondipatti)	46.555	1,00,590
03	Additional Area in Chettichatram & K. Periyapatti	207.463	6,58,903

***Out of 231.129 Hectares, 20.466 hectares are TNPL Unit – II Township. Remaining area of 207.463 Ha is under greenbelt area.**

TABLE B:**Tree planted details in Captive Power Plant (Mondipatti) as on 30.09.2024**

Sl. NO	Name of the Tree	No. of Trees
1	<i>Millingtonia</i> (Maramalli)	520
2	<i>Polyalthiya longifolia</i>	48
3	<i>Pongamia pinnata</i> (Pungam)	305
4	<i>Syzygium cumini</i> (Jamun)	25
5	<i>Terminalia catappa</i> (Badam)	850
6	<i>Thespesia populnea</i> (Puvarasu)	80
7	Eucalyptus hybrid (Eucalyptus)	11899
8	<i>Casuarina equisetifolia</i> (Casuarina)	13744
9	<i>Muntingia calabura</i> (Singapore cherry)	16
10	<i>Mimusops elengi</i> (Mahilam)	21
11	<i>Azadirctia indica</i> (Neem)	47
12	<i>Kigelia pinnata</i> (Siva kundalam)	21
13	<i>Conocarpus erectus</i> (Button wood)	300
14	<i>Peltophorum pterocarpum</i> (Pheltophorum)	396
15	<i>Cassia Fistula</i> (Sarakondrai)	2
16	<i>Deloxix regia</i> (Gulmuhar)	16
	TOTAL	28290

TABLE C:**Tree planted details in Board Plant (Mondipatti) as on 30.09.2024**

SL. NO	Name of the Tree	No. of Trees
1	<i>Acrocarpus fraxinifolius (Pink Cedar)</i>	810
2	<i>Azadirachta indica (Neem)</i>	954
3	<i>Casuarina Hybrid (Casuarina)</i>	48,796
4	<i>Dalbergia sisoo (Sisu)</i>	15,108
5	<i>Delonix regia (Gulmour)</i>	287
6	<i>Eucalyptus Hybrid</i>	30,614
7	<i>Ficus benghalensis (Alam)</i>	104
8	<i>Ficus religiosa (Arasu)</i>	108
9	<i>Caryota mitis (Fishtail palm)</i>	53
10	<i>Lagerstroemia speciosa (Pride of India)</i>	34
11	<i>Tectona grandis (Teak)</i>	637
12	<i>Ficus Racemosa (Fig)</i>	10
13	<i>Terminalia arjuna (Arjun tree)</i>	100
14	<i>Bauhinia purpurea (Mantharai)</i>	391
15	<i>Thespesia populnea (Portia tree)</i>	95
16	<i>Simarouba glauca (Paradise tree)</i>	95
17	<i>Conocarpus erectus (Button wood)</i>	319
18	<i>Millettia pinnata (Pungan)</i>	500
19	<i>Millingtonia hortensis (Tree Jasmine)</i>	215
20	<i>Mimusops elengi (Magilam)</i>	200
21	<i>Muntingia calabura (Singapur jerry)</i>	200
22	<i>Peltophorum pterocarpum (Copperpod)</i>	142
23	<i>Terminalia catappa (Almond)</i>	370
24	<i>Wodyetia bifurcate (Foxtail palm)</i>	110
25	<i>Terminalia Mantaly (Carparking tree)</i>	25
26	<i>Albizia lebbeck (Indian siris)</i>	28
27	<i>Samanea saman(Rain Tree)</i>	285
	TOTAL	100590

TABLE D:
Tree planted details in Additional Area in Chettichatram & K. Periyapatti as on 30.09.2024

S.No	Name of the Tree	No. of Trees
1	<i>Acacia auriculiformis</i> (Earleaf acacia)	10673
2	<i>Ficus benghalensis</i> (Alam)	209
3	<i>Acacia mangium</i> (Manguim)	28214
4	<i>Phyllanthus emblica</i> (Indian gooseberry)	3056
5	<i>Ficus religiosa</i> (Arasu)	65
6	<i>Saraca asoca</i> Ashoka	1
7	<i>Terminalia catappa</i> (Almond)	2380
8	<i>Bambusa balcooa</i> (Thorn less bamboo)	12881
9	<i>Majidea zangueberica</i> (Black pearl tree)	5
10	<i>Senna siamea</i> (Yellow cassia)	4760
11	<i>Anacardium occidentale</i> (Cashewnut)	2756
12	<i>Casuarina equisetifolia</i> (Costal Pine)	35154
13	<i>Casuarina hybrid</i> (Costal Pine)	197657
14	<i>Casuarina junghuhniana</i> (Inland casuarina)	72953
15	<i>Cocos nucifera</i> Coconut (AT)	799
16	<i>Cocos nucifera</i> Coconut (D x T)	302
17	<i>Cocos nucifera</i> Coconut (Dwarf-Orange)	482
18	<i>Cocos nucifera</i> Coconut (ECT)	1839
19	<i>Cocos nucifera</i> Coconut (T x D)	1625
20	<i>Cocos nucifera</i> Coconut (WCT)	448
21	<i>Croscientia cujete</i> (calabash tree)	5
22	<i>Eucalyptus tereticornis</i> (Eucalyptus)	55811
23	<i>Gmelina arborea</i> (Kumil)	240
24	<i>Psidium guajava</i> (Guava) / <i>Artocarpus heterophyllus</i> (Jack)/ <i>Pithecellobium dulce</i> / <i>Citrus limon</i> (Lemon)	5905
25	<i>Delonix regia</i> (Gulmohar)	212
26	<i>Madhuca longifolia</i> (Iluppai)	211
27	<i>Neolamarckia cadamba</i> (Kadam)	15551
28	<i>Diospyros Ebenum</i> (Karungali)	8
29	<i>Khaya senegalensis</i> (Africa mahogany)	9150
30	<i>Leucaena leucocephala</i> (Leuceana)	10060
31	<i>Swietenia mahagoni</i> (Indian Mahagony)	10871
32	<i>Mangifera indica</i> (Mango)	10000
33	<i>Melia dubia</i> (Malaivembu)	28385
34	<i>Azadirachta indica</i> (Neem)	11395
35	<i>Terminalia arjuna</i> (Neer marudhu)	5335
36	<i>Cestrum nocturnum</i> (Night queen tree)	5

37	<i>Morinda citrifolia</i> (Noni Tree)	5
38	<i>Peltophorum pterocarpum</i> (Copperpod)	30
39	<i>Punica granatum</i> (Pomegranate)	2000
40	<i>Thespesia populnea</i> (Poovarasu) / <i>Pongamia pinnata</i> (Pungan)	6557
41	<i>Calophyllum inophyllum</i> (Punnai)	5
42	<i>Putranjiva roxburghii</i> (Puthrajeevi)	5
43	<i>Pterocarpus santalinus</i> (Red sandal)	3000
44	<i>Dalbergia latifolia</i> (Rose wood)	2740
45	<i>Santalum album</i> (Sandal)	2271
46	<i>Manilkara zapota</i> (Sappota) / <i>Annona squamosa</i> (Seethapal)	907
47	<i>Ceiba pentandra</i> (Silk cotton)	2200
48	<i>Grevillea robusta</i> (Silver Oak)	700
49	<i>Dalbergia sissoo</i> (Sissoo)	64645
50	<i>Sapindus emarginatus</i> (Soap nut)	5
51	<i>Averrhoa carambola</i> (Star fruit)	5
52	<i>Tamarindus indica</i> (Tamarind)	2975
53	<i>Tectona grandis</i> (Teak)	20963
54	<i>Albizia lebbek</i> (Vagai)	2777
55	<i>Bixa orellana</i> (Lipstic tree)	5
56	<i>Conocarpus erectus</i> (Button wood)	800
57	<i>Syzygium aqueum</i> Water apple	5
58	<i>Musa paradisiaca</i> (Banana)	3500
59	<i>Borassus flabellifer</i> (Toddy palm)	450
60	<i>Khaya anthotheca</i> (East African mahogany)	500
61	<i>Vachellia nilotica</i> (Gum arabic)	200
62	<i>Terminalia chebula</i> (Kadukkai)	400
63	<i>Terminalia bellirica</i> (Thandri)	1850
	Grand Total	6,58,903

View on Flora



Coconut plantation (*Cocos nucifera*)



Teak (*Tectona grandis*)



Arjun Tree (*Terminalia arjuna*)



African mahogany (*Khaya scenegalensis*)



Pungan (*Millettia pinnata*)



Butter Tree (*Madhuca longifolia*)



Casuarina (*Casuarina sps*)



Guava (*Psidium gujava*)



Sapota (*Manilkara zapota*)



Mango (*Mangifera indica*)



Badham (*Terminalia catapa*)



Eucalyptus (*Eucalyptus sps*)



Neolamarckia cadamba (Cadambam)



Thespesia populnea (Poovarasu)



Acacia mangium (Mangium)



Cassia siamina (Manjalkonrai)

View of Herbs



Sickle bush

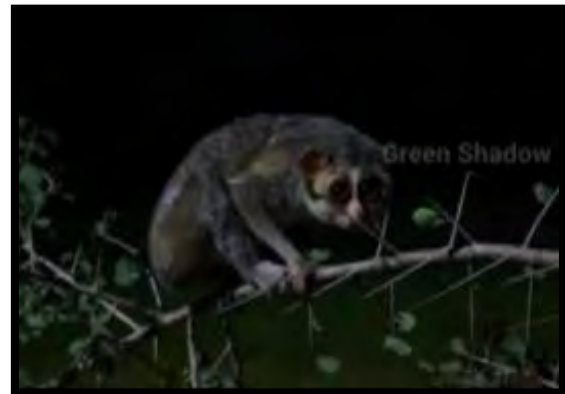


Jackal jujube

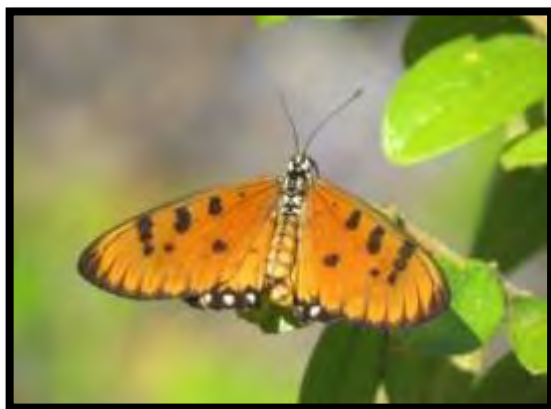
View of Fauna



Cat Snake



Grey slender loris



Tawny coster



Camelion



Bar-headed goose



Black winged stilt



Shikra



Peacock pansy



Asian openbill Stork



Indian Cobra



Woolly-necked stork



Painted stork and Egrets



Road Avenue (Elephant Ear Trees)



Wet land habitats for birds



Water bodies for Biodiversity Conservation

Category of the Industry :

RED



CONSENT ORDER NO. 2207243671275 DATED: 15/07/2022.

PROCEEDINGS NO.T3/TNPCB/F.0142TRY/RL//TRY/A/2022 DATED: 15/07/2022

SUB: Tamil Nadu Pollution Control Board –CONSENT TO OPERATE FOR EXPANSION-I -M/s. TAMIL NADU NEWSPRINT AND PAPERS LTD. UNIT-II (PAPER BOARD UNIT) - (PHASE D) , S.F.No. MONDIPATTI VILLAGE:1/1,2,3A&3B, 2/1&2,3/1 to 6, 4/1to 3, 5/1 to 3, 6/1 to 4, 7/1 to 7, 8/1 to 3, 9/2, 10, 11/1,2A,2B,3 to 5, 12/1 to 5, 6A &6B, 13/1 to 4, 14/1&2, 15/1,2A,2B,2C Part,2D,3, 4A Part, 4B Part & 4D Part, 16/1,2A Part,2G, 2H, 2I, 2J, 5A, 6A, 6D, 6E Part, 6F&6G, 17/1,2 Part,3 Part&4 Part, 18, 22/1,2&3 Part, 31/1 to 5, 6A &6B, 40/1&2, 41, 42, 43/1to10, 44/1 to 6, 45/1to4, 46/1 part, 108, 109, 110, 297, 298/1 to 10, 299/1,2,3A,3B, 4 & 5, 300/1 to 5, 301/1 to 10, 303/3, 304 K.PERIYAPTTI (NORTH)VILLAGE: 2/1A, 1C to F, 1S to Z, 1A1A, 1A1B, 1AF, 1AG &2, 3/1, 2A, 2B, 3A1, 3A2, 3B1, 3B2, 3C1, 3C2, 3D1 &3D2,7/1A, 1B, 1C1, 1D1, 1E to G, 2A & 3A, 13/1, 2A to 7A, 7B & 7C to 7H, 14/1A to 1E, 2A &2B, 19/1A to 1C, 2A, 2B & 3A to 3D, 20/1 to 3, 21/1 to 3, 22/2 to 14, 23/1,47/1A &2, 48/1 to 5, 405/1A1 to 1A5, 1B &2, 406/1A, 1B, 2A &2B, 407/1 to 7, 408/1, 2, 3A & 3B, 409/1-A, 410/1 to 4, 415/2, 462/1A to 1C &2A to 2E, 464/1A, 1B, 2A & 2B, 465/1A to 1E, 2A &2B, 466/1&2, 467, 468/1 to 3, 470, 471, 472/1 to 3, 473/1,2, 474/1 to 3, 475/1A to 1C &2,476 to 478, 479/1 to 3, 480/1& 2, 481/1 to 34, 482/1 to 4, 5A, 5B, 6A& 6B, 484/2A2, &2B, 506/1 to 6, 507, 508/1A to 1D, 508/2A&2B, 509/1A, 1B, 2A&2B, 518/1, 2A to 2D,3, 4A to 4C& 5, 520/2, 521/1 &2A to 2D, 522/1, 523/1A to 1D, 2 to 4, 5A to 5D, 6 &7, 524/1, 2A, 2B, 3&4, 525/1A to 1E, 2 & 3A to 3E, 526/1 to 4, 527/1&2, 528/1A, 1B& 2A1, 529/1A, 4, 5, 6A & 6B, 530/1 to 6 CHETTICHATRAM VILLAGE:1/1 to 5, 6A, 6B &7, 2/1A, 1B& 2 to 13, 3/2, 3A, 4A, 4B &4C1, 4/3A, 2, 9A, 10 to 18, 23A&24, 5/2A to 2K, 6/1A to1C, 7/2, 3, 4A, 4B, 5A, 5B & 6, 59/1-A& 2 to 4, 60, 61/1&2,70/1&2, MONDIPATTY villageManappaarai Taluk and Thiruchirapalli District - Consent for operation of the plant and discharge of emissions under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 (Central Act 14 of 1981) –Issued- Reg.

REF: 1.PROCEEDINGS NO.T3/TNPCB/F.0142TRY/RL/TRY/W&A/2021,DATED: 11/08/2021
2.Unit's application No. 43671275, dated 24-02-2022 & 05-07-2022
3.IR.No : F.0142TRY/RL/JCEE-M/TRY/2022 dated 05/07/2022
4.Board's (Technical Sub Committee) Resolution Item No.200-16, dated 11.07.2022.

CONSENT TO OPERATE FOR EXPANSION is hereby granted under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 (Central Act 14 of 1981) (hereinafter referred to as "The Act") and the rules and orders made there under to

CHIEF GENERAL MANAGER (BOARD PLANT),

M/s . TAMIL NADU NEWSPRINT AND PAPERS LTD. UNIT-II (PAPER BOARD UNIT) - (PHASE I)

S.F.No.MONDIPATTI VILLAGE:1/1,2,3A&3B, 2/1&2,3/1 to 6, 4/1to 3, 5/1 to 3, 6/1 to 4, 7/1 to 7, 8/1 to 3, 9/2, 10, 11/1,2A,2B,3 to 5, 12/1 to 5, 6A &6B, 13/1 to 4, 14/1&2, 15/1,2A,2B,2C Part,2D,3, 4A Part, 4B Part & 4D Part, 16/1,2A Part,2G, 2H, 2I, 2J, 5A, 6A, 6D, 6E Part, 6F&6G, 17/1,2 Part,3 Part&4 Part, 18, 22/1,2&3 Part, 31/1 to 5, 6A &6B, 40/1&2, 41, 42, 43/1to10, 44/1 to 6, 45/1to4, 46/1 part, 108, 109, 110, 297, 298/1 to 10, 299/1,2,3A,3B, 4 & 5, 300/1 to 5, 301/1 to 10, 303/3, 304 K.PERIYAPTTI (NORTH)VILLAGE: 2/1A, 1C to F, 1S to Z, 1A1A, 1A1B, 1AF, 1AG &2, 3/1, 2A, 2B, 3A1, 3A2, 3B1, 3B2, 3C1, 3C2, 3D1 &3D2,7/1A, 1B, 1C1, 1D1, 1E to G, 2A & 3A, 13/1, 2A to 7A, 7B & 7C to 7H, 14/1A to 1E, 2A &2B, 19/1A to 1C, 2A, 2B & 3A to 3D, 20/1 to 3, 21/1 to 3, 22/2 to 14, 23/1,47/1A &2, 48/1 to 5, 405/1A1 to 1A5, 1B &2, 406/1A, 1B, 2A &2B, 407/1 to 7, 408/1, 2, 3A & 3B, 409/1-A, 410/1 to 4, 415/2, 462/1A to 1C &2A to 2E, 464/1A, 1B, 2A & 2B, 465/1A to 1E, 2A &2B, 466/1&2, 467, 468/1 to 3, 470, 471, 472/1 to 3, 473/1,2, 474/1 to 3, 475/1A to 1C &2,476 to 478, 479/1 to 3, 480/1& 2, 481/1 to 34, 482/1 to 4, 5A, 5B, 6A&

6B, 484/2A2, &2B, 506/1 to 6, 507, 508/1A to 1D, 508/2A&2B, 509/1A, 1B, 2A&2B, 518/1, 2A to 2D,3, 4A to 4C& 5, 520/2, 521/1 &2A to 2D, 522/1, 523/1A to 1D, 2 to 4, 5A to 5D, 6 &7, 524/1, 2A, 2B, 3&4, 525/1A to 1E, 2 & 3A to 3E, 526/1 to 4, 527/1&2, 528/1A, 1B& 2A1, 529/1A, 4, 5, 6A & 6B, 530/1 to 6 CHETTICHATRAM VILLAGE:1/1 to 5, 6A, 6B &7, 2/1A, 1B& 2 to 13, 3/2, 3A, 4A, 4B &4C1, 4/3A, 2, 9A, 10 to 18, 23A&24, 5/2A to 2K, 6/1A to1C, 7/2, 3, 4A, 4B, 5A, 5B & 6, 59/1-A& 2 to 4, 60, 61/1&2,70/1&2,

MONDIPATTY Village,
Manappaarai Taluk,
Thiruchirapalli District.

Authorizing the occupier to operate the industrial plant in the Air Pollution Control Area as notified by the Government and to make discharge of emission from the stacks/chimneys.

This is subject to the provisions of the Act, the rules and the orders made there under and the terms and conditions incorporated under the Special and General conditions stipulated in the Consent Order issued earlier and subject to the special conditions annexed.

This CONSENT is valid for the period ending March 31, 2027

RAMASAMY
RAJAMANICKAM
Digitally signed by
RAMASAMY RAJAMANICKAM
Date: 2022.07.15 21:40:39
+05'30'
**For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai**

To
CHIEF GENERAL MANAGER (BOARD PLANT),
M/s.TAMIL NADU NEWSPRINT AND PAPERS LTD. UNIT-II (PAPER BOARD UNIT) - (PHASE I),
Tamilnadu Newsprint and Papers Limited,
UNIT-II (PAPER BOARD UNIT)
Mondipatty, K. Periyapatti & Chettichathram villages, Manapparai Taluk, Thiruchirapalli District ,
Pin: 621306

Copy to:

- 1.The Commissioner, MANAPPARAI-Panchayat Union, Manappaarai Taluk, Thiruchirapalli District .
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, THIRUCHIRAPALLI.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Tiruchirappalli.
4. File

Category of the Industry :

RED



CONSENT ORDER NO. 2207143671275 DATED: 15/07/2022.

PROCEEDINGS NO.T3/TNPCB/F.0142TRY/RL/TRY/W/2022 DATED: 15/07/2022

SUB: Tamil Nadu Pollution Control Board –CONSENT TO OPERATE FOR EXPANSION-I -M/s. TAMIL NADU NEWSPRINT AND PAPERS LTD. UNIT-II (PAPER BOARD UNIT) - (PHASE D) , S.F.No. MONDIPATTI VILLAGE:1/1,2,3A&3B, 2/1&2,3/1 to 6, 4/1to 3, 5/1 to 3, 6/1 to 4, 7/1 to 7, 8/1 to 3, 9/2, 10, 11/1,2A,2B,3 to 5, 12/1 to 5, 6A &6B, 13/1 to 4, 14/1&2, 15/1,2A,2B,2C Part,2D,3, 4A Part, 4B Part & 4D Part, 16/1,2A Part,2G, 2H, 2I, 2J, 5A, 6A, 6D, 6E Part, 6F&6G, 17/1,2 Part,3 Part&4 Part, 18, 22/1,2&3 Part, 31/1 to 5, 6A &6B, 40/1&2, 41, 42, 43/1to10, 44/1 to 6, 45/1to4, 46/1 part, 108, 109, 110, 297, 298/1 to 10, 299/1,2,3A,3B, 4 & 5, 300/1 to 5, 301/1 to 10, 303/3, 304 K.PERIYAPTTI (NORTH)VILLAGE: 2/1A, 1C to F, 1S to Z, 1A1A, 1A1B, 1AF, 1AG &2, 3/1, 2A, 2B, 3A1, 3A2, 3B1, 3B2, 3C1, 3C2, 3D1 &3D2,7/1A, 1B, 1C1, 1D1, 1E to G, 2A & 3A, 13/1, 2A to 7A, 7B & 7C to 7H, 14/1A to 1E, 2A &2B, 19/1A to 1C, 2A, 2B & 3A to 3D, 20/1 to 3, 21/1 to 3, 22/2 to 14, 23/1,47/1A &2, 48/1 to 5, 405/1A1 to 1A5, 1B &2, 406/1A, 1B, 2A &2B, 407/1 to 7, 408/1, 2, 3A & 3B, 409/1-A, 410/1 to 4, 415/2, 462/1A to 1C &2A to 2E, 464/1A, 1B, 2A & 2B, 465/1A to 1E, 2A &2B, 466/1&2, 467, 468/1 to 3, 470, 471, 472/1 to 3, 473/1,2, 474/1 to 3, 475/1A to 1C &2,476 to 478, 479/1 to 3, 480/1& 2, 481/1 to 34, 482/1 to 4, 5A, 5B, 6A & 6B, 484/2A2, &2B, 506/1 to 6, 507, 508/1A to 1D, 508/2A&2B, 509/1A, 1B, 2A&2B, 518/1, 2A to 2D,3, 4A to 4C& 5, 520/2, 521/1 &2A to 2D, 522/1, 523/1A to 1D, 2 to 4, 5A to 5D, 6 &7, 524/1, 2A, 2B, 3&4, 525/1A to 1E, 2 & 3A to 3E, 526/1 to 4, 527/1&2, 528/1A, 1B& 2A1, 529/1A, 4, 5, 6A & 6B, 530/1 to 6 CHETTICHATRAM VILLAGE:1/1 to 5, 6A, 6B &7, 2/1A, 1B& 2 to 13, 3/2, 3A, 4A, 4B &4C1, 4/3A, 2, 9A, 10 to 18, 23A&24, 5/2A to 2K, 6/1A to1C, 7/2, 3, 4A, 4B, 5A, 5B & 6, 59/1-A& 2 to 4, 60, 61/1&2,70/1&2, MONDIPATTY villageManappaarai Taluk and Thiruchirapalli District - Consent for the operation of the plant and discharge of sewage and/or trade effluent under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 (Central Act 6 of 1974) – Issued- Reg.

REF: 1.PROCEEDINGS NO.T3/TNPCB/F.0142TRY/RL/TRY/W&A/2021,DATED: 11/08/2021
2.Unit's application No. 43671275, dated 24-02-2022 & 05-07-2022
3.IR.No : F.0142TRY/RL/JCEE-M/TRY/2022 dated 05/07/2022
4.Board's (Technical Sub Committee) Resolution Item No.200-16, dated 11.07.2022.

CONSENT TO OPERATE FOR EXPANSION is hereby granted under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 (Central Act, 6 of 1974) (hereinafter referred to as "The Act") and the rules and orders made there under to

CHIEF GENERAL MANAGER (BOARD PLANT),

M/s . TAMIL NADU NEWSPRINT AND PAPERS LTD. UNIT-II (PAPER BOARD UNIT) - (PHASE I)

S.F No.MONDIPATTI VILLAGE:1/1,2,3A&3B, 2/1&2,3/1 to 6, 4/1to 3, 5/1 to 3, 6/1 to 4, 7/1 to 7, 8/1 to 3, 9/2, 10, 11/1,2A,2B,3 to 5, 12/1 to 5, 6A &6B, 13/1 to 4, 14/1&2, 15/1,2A,2B,2C Part,2D,3, 4A Part, 4B Part & 4D Part, 16/1,2A Part,2G, 2H, 2I, 2J, 5A, 6A, 6D, 6E Part, 6F&6G, 17/1,2 Part,3 Part&4 Part, 18, 22/1,2&3 Part, 31/1 to 5, 6A &6B, 40/1&2, 41, 42, 43/1to10, 44/1 to 6, 45/1to4, 46/1 part, 108, 109, 110, 297, 298/1 to 10, 299/1,2,3A,3B, 4 & 5, 300/1 to 5, 301/1 to 10, 303/3, 304 K.PERIYAPTTI (NORTH)VILLAGE: 2/1A, 1C to F, 1S to Z, 1A1A, 1A1B, 1AF, 1AG &2, 3/1, 2A, 2B, 3A1, 3A2, 3B1, 3B2, 3C1, 3C2, 3D1 &3D2,7/1A, 1B, 1C1, 1D1, 1E to G, 2A & 3A, 13/1, 2A to 7A, 7B & 7C to 7H, 14/1A to 1E, 2A &2B, 19/1A to 1C, 2A, 2B & 3A to 3D, 20/1 to 3, 21/1 to 3, 22/2 to 14, 23/1,47/1A &2, 48/1 to 5, 405/1A1 to 1A5, 1B &2, 406/1A, 1B, 2A &2B, 407/1 to 7, 408/1, 2, 3A & 3B, 409/1-A, 410/1 to 4, 415/2, 462/1A to 1C &2A to 2E, 464/1A, 1B, 2A & 2B, 465/1A to 1E, 2A &2B, 466/1&2, 467, 468/1 to 3,

470, 471, 472/1 to 3, 473/1,2, 474/1 to 3, 475/1A to 1C & 2, 476 to 478, 479/1 to 3, 480/1& 2, 481/1 to 34, 482/1 to 4, 5A, 5B, 6A& 6B, 484/2A2, & 2B, 506/1 to 6, 507, 508/1A to 1D, 508/2A&2B, 509/1A, 1B, 2A&2B, 518/1, 2A to 2D, 3, 4A to 4C& 5, 520/2, 521/1 & 2A to 2D, 522/1, 523/1A to 1D, 2 to 4, 5A to 5D, 6 & 7, 524/1, 2A, 2B, 3&4, 525/1A to 1E, 2 & 3A to 3E, 526/1 to 4, 527/1&2, 528/1A, 1B& 2A1, 529/1A, 4, 5, 6A & 6B, 530/1 to 6 CHETTICHATRAM VILLAGE: 1/1 to 5, 6A, 6B & 7, 2/1A, 1B& 2 to 13, 3/2, 3A, 4A, 4B & 4C1, 4/3A, 2, 9A, 10 to 18, 23A&24, 5/2A to 2K, 6/1A to 1C, 7/2, 3, 4A, 4B, 5A, 5B & 6, 59/1-A& 2 to 4, 60, 61/1&2, 70/1&2,

MONDIPATTY Village,
Manappaarai Taluk,
Thiruchirapalli District.

Authorising the occupier to make discharge of sewage and /or trade effluent.

This is subject to the provisions of the Act, the rules and the orders made there under and the terms and conditions incorporated under the Special and General conditions stipulated in the Consent Order issued earlier and subject to the special conditions annexed.

This CONSENT is valid for the period ending March 31, 2027

RAMASAMY
RAJAMANICKAM
For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

Digitally signed by
RAMASAMY RAJAMANICKAM
Date: 2022.07.15 21:42:57
+05'30'

To
CHIEF GENERAL MANAGER (BOARD PLANT),
M/s. TAMIL NADU NEWSPRINT AND PAPERS LTD. UNIT-II (PAPER BOARD UNIT) - (PHASE I),
Tamilnadu Newsprint and Papers Limited,
UNIT-II (PAPER BOARD UNIT)
Mondipatty, K. Periyapatti & Chettichathram villages, Manapparai Taluk, Thiruchirapalli District ,
Pin: 621306

Copy to:

1. The Commissioner, MANAPPARAI-Panchayat Union, Manappaarai Taluk, Thiruchirapalli District .
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, THIRUCHIRAPALLI.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Tiruchirappalli.
4. File

Category of the Industry :

RED



CONSENT ORDER NO. 2207243608442 DATED: 15/07/2022.

PROCEEDINGS NO.T3/TNPCB/F.0145TRY/RL//TRY/A/2022 DATED: 15/07/2022

SUB: Tamil Nadu Pollution Control Board –CONSENT TO OPERATE FOR EXPANSION-I -M/s. M/S. TAMIL NADU NEWSPRINT AND PAPERS LTD UNIT-II (CAPTIVE CO GEN PLANT)- (PHASE-I) , S.F.No. 39/1,39/2, Part 46/1,296,302/1,302/2A,302/2B, 302/3, 302/4, 302/5, 302/6,302/7, 302/8A, 302/8B, 302/9. 302/10, 302,11, 302/12, 302/13, 302/14, 302/15 and 302/16. , MONDIPATY village Manappaarai Taluk and Thiruchirapalli District - Consent for operation of the plant and discharge of emissions under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 (Central Act 14 of 1981) –Issued- Reg.

REF: 1.PROCEEDINGS NO.T3/TNPCB/F.0145TRY/RL/TRY/W&A/2021 DATED: 11/08/2021
2.Unit's application No. 43608442, dated 24-02-2022 & 05-07-2022
3.IR.No : F.0145TRY/RL/JCEE-M/TRY/2022 dated 05/07/2022
4.Board's (Technical Sub Committee) Resolution Item No.200-17, dated 11.07.2022.

CONSENT TO OPERATE FOR EXPANSION is hereby granted under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 (Central Act 14 of 1981) (hereinafter referred to as "The Act") and the rules and orders made there under to

Chief General Manager (Board Plant)) ,
M/s . M/S. TAMIL NADU NEWSPRINT AND PAPERS LTD UNIT-II (CAPTIVE CO GEN PLANT)- (PHASE-I)
S.F No.39/1,39/2, Part 46/1,296,302/1,302/2A,302/2B, 302/3, 302/4, 302/5, 302/6,302/7, 302/8A, 302/8B, 302/9.
302/10, 302,11, 302/12, 302/13, 302/14, 302/15 and 302/16. ,
MONDIPATY Village,
Manappaarai Taluk,
Thiruchirapalli District.

Authorizing the occupier to operate the industrial plant in the Air Pollution Control Area as notified by the Government and to make discharge of emission from the stacks/chimneys.

This is subject to the provisions of the Act, the rules and the orders made there under and the terms and conditions incorporated under the Special and General conditions stipulated in the Consent Order issued earlier and subject to the special conditions annexed.

This CONSENT is valid for the period ending March 31, 2027

RAMASAMY Digitally signed by
RAMASAMY RAJAMANICKAM
RAJAMANICKAM Date: 2022.07.15 21:47:10
+05'30'
For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

To
Chief General Manager (Board Plant)) ,
M/s.M/S. TAMIL NADU NEWSPRINT AND PAPERS LTD UNIT-II (CAPTIVE CO GEN PLANT)- (PHASE-I),
M/S. Tamil Nadu Newsprint and Papers Limited, 67, Mount Road, Guindy, Chennai ,
Pin: 600032

Category of the Industry :

RED



CONSENT ORDER NO. 2207143608442 DATED: 15/07/2022.

PROCEEDINGS NO.T3/TNPCB/F.0145TRY/RL/TRY/W/2022 DATED: 15/07/2022

SUB: Tamil Nadu Pollution Control Board –CONSENT TO OPERATE FOR EXPANSION-I -M/s. M/S. TAMIL NADU NEWSPRINT AND PAPERS LTD UNIT-II (CAPTIVE CO GEN PLANT)- (PHASE-I) , S.F.No. 39/1,39/2, Part 46/1,296,302/1,302/2A,302/2B, 302/3, 302/4, 302/5, 302/6,302/7, 302/8A, 302/8B, 302/9. 302/10, 302,11, 302/12, 302/13, 302/14, 302/15 and 302/16. , MONDIPATTY village Manappaarai Taluk and Thiruchirapalli District - Consent for the operation of the plant and discharge of sewage and/or trade effluent under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 (Central Act 6 of 1974) – Issued- Reg.

REF: 1.PROCEEDINGS NO.T3/TNPCB/F.0145TRY/RL/TRY/W&A/2021 DATED: 11/08/2021
2.Unit's application No. 43608442, dated 24-02-2022 & 05-07-2022
3.IR.No : F.0145TRY/RL/JCEE-M/TRY/2022 dated 05/07/2022
4.Board's (Technical Sub Committee) Resolution Item No.200-17, dated 11.07.2022.

CONSENT TO OPERATE FOR EXPANSION is hereby granted under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 (Central Act, 6 of 1974) (hereinafter referred to as "The Act") and the rules and orders made there under to

Chief General Manager (Board Plant) ,
M/s . M/S. TAMIL NADU NEWSPRINT AND PAPERS LTD UNIT-II (CAPTIVE CO GEN PLANT)- (PHASE-I)
S.F No.39/1,39/2, Part 46/1,296,302/1,302/2A,302/2B, 302/3, 302/4, 302/5, 302/6,302/7, 302/8A, 302/8B, 302/9.
302/10, 302,11, 302/12, 302/13, 302/14, 302/15 and 302/16. ,
MONDIPATTY Village,
Manappaarai Taluk,
Thiruchirapalli District.

Authorising the occupier to make discharge of sewage and /or trade effluent.

This is subject to the provisions of the Act, the rules and the orders made there under and the terms and conditions incorporated under the Special and General conditions stipulated in the Consent Order issued earlier and subject to the special conditions annexed.

This CONSENT is valid for the period ending March 31, 2027

RAMASAMY Digitally signed by RAMASAMY
RAJAMANICKAM RAJAMANICKAM
Date: 2022.07.15 21:49:17
+05'30'
For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

To
Chief General Manager (Board Plant) ,
M/s.M/S. TAMIL NADU NEWSPRINT AND PAPERS LTD UNIT-II (CAPTIVE CO GEN PLANT)- (PHASE-I),
M/S. Tamil Nadu Newsprint and Papers Limited, 67, Mount Road, Guindy, Chennai ,
Pin: 600032

அனுப்புநர்::

சு.சிவராசு, இ.ஆ.ப.
மாவட்ட ஆட்சித் தலைவர்,
திருச்சிராப்பள்ளி.

பெறுநர்::

கண்காணிப்புப் பொறியாளர்,
பொதுப்பணித்துறை (நீ.ஆ.து),
நடுக்காவிரி வடிநில வட்டம்,
திருச்சிராப்பள்ளி-20

ந.க.அ1 /15426/ 2020

நாள்: 26.09.2020

அய்யா,

- பொருள்:: திருச்சிராப்பள்ளி மாவட்டம் - தமிழ்நாடு செய்திதான் காகித நிறுவனம் - காவிரி ஆற்றிலிருந்து தனது தொழிற்சாலை பயன்பாட்டிற்காக தண்ணீர் எடுத்தல் - ஒப்பந்தகால நீட்டிப்பு 31.10.2020 முதல் 31.10.2025 வரை உள்ள காலத்திற்கு அனுமதி வழங்க பரிந்துரை செய்தல் - தொடர்பாக
- பார்வை 1. திருச்சிராப்பள்ளி கண்காணிப்பு பொறியாளர், (பொ.ப.து) (நீ.ஆ.அ) நடுக்காவிரி வடிநிலவட்டம், கடித எண்: 62ஆ-வபி-வ7-கோ.TNPL/2020 நாள்:18.07.2020.
2. அரசாணை (நிலை) எண்.18, பொதுப்பணி (எண்.2) துறை, நாள்: 22.01.2015.
3. அரசாணை (நிலை) எண்.227, பொதுப்பணி (W2) துறை நாள்:20.11.2017.
4. ஸ்ரீரங்கம் உதவி ஆட்சியர் அவர்களின் கடித எண்:A2/3378/2020 நாள்:15.09.2020.

◆◆◆◆◆

பார்வையில் காணும் கடிதங்களின் மீது தங்களது கவனத்தை ஈர்க்க விழைகிறேன்.

திருச்சிராப்பள்ளி மாவட்டம், மணப்பாறை வட்டம், மொண்டிப்பட்டி கிராமத்தில் இயங்கி வரும் தமிழ்நாடு செய்தித்தாள் மற்றும் காகித நிறுவனம் தொழிற்சாலை பயன்பாட்டிற்காக நாளொன்றுக்கு 23.10MLD தண்ணீர் காவிரி ஆற்றிலிருந்து 01.11.2015 முதல் 30.10.2020வரை எடுத்துக்கொள்ள அனுமதி வழங்கி பார்வை 2-ல் காணும் அரசாணையின் படி ஆணை வெளியிடப்பட்டுள்ளது. மேற்படி தண்ணீர் எடுப்பதற்கான ஒப்பந்த அனுமதியினை 31.10.2020 முதல் 30.10.2025 வரை நீட்டிக்க திருச்சிராப்பள்ளி நீர் ஆதாரத்துறை, நடுக்காவிரி வடிநில வட்டம் கண்காணிப்பு பொறியாளர் பரிந்துரை செய்ததை தொடர்ந்து பார்வை 4-ல் காணும் ஸ்ரீரங்கம் உதவி ஆட்சியரின் அறிக்கை பெறப்பட்டு பரிசீலனை செய்யப்பட்டது.

திருச்சிராப்பள்ளி மாவட்டம், மணப்பாறை வட்டம், மொண்டிப்பட்டியில் அமைந்துள்ள தமிழ்நாடு செய்தித்தாள் மற்றும் காசு நிறுவனம் தொழிற்சாலை பயன்பாட்டிற்காக நாளொன்றுக்கு 23.10MLD தண்ணீர் காவிரி ஆற்றிலிருந்து 01.11.2015 முதல் 30.10.2020வரை எடுக்கக்கொள்ள அரசாணை (நிலை) எண்.18, பொதுப்பணி(எண்.2) துறை, நாள்: 22.01.2015-ன்படி அனுமதி வழங்கப்பட்டுள்ளது என்றும், மேற்படி காசு ஆலைக்கு தண்ணீர் எடுக்க மின் மோட்டார் அமைக்கப்பட்டுள்ள இடம், மின் இயந்திரம் அமைக்கப்பட்டுள்ள அறை மற்றும் மின் மாற்றி அமைக்கப்பட்டுள்ள இடம் நிறுவனத்தினரால் புதிதாக கிரையம் செய்யப்பட்டுள்ள பெருகமணி கிராமம் அயன் புன்செய் புல எண் 141/7-ல் உட்பிரிவு எண் 141/7A, 7B-ல் அமைக்கப்பட்டுள்ளதாகவும், தண்ணீர் எடுக்கும் இடமான ஸ்ரீரங்கம் வட்டம், பெருகமணி கிராமத்தில் காவிரி ஆற்றில் அமைக்கப்பட்டுள்ள நீர் உறிஞ்சி கிணறு முதல் மணப்பாறை வட்டம், மொண்டிப்பட்டி கிராமத்தில் அமைந்துள்ள காசு நிறுவனத்தின் வளாகத்தில் உள்ள நீர் சேகரிக்கும் குளம் வரை 31.10கி.மீ நீளமுள்ள குழாய்கள் அமைக்கப்பட்டுள்ளதாகவும், காவிரி ஆற்றில்லிந்து வரப்பெறும் நீரானது நீர் தேக்கத்தில் சேகரிக்கப்பட்டு குழாய்கள் மூலம் அருகிலுள்ள சுத்திகரிப்பு நிலையத்தில் சுத்திகரிக்கப்பட்டு காசு ஆலைக்கு அனுப்பப்படுகிறது என்றும், ஆலைக்கு எதிராக பொதுமக்களின் குற்றச்சாட்டுகள் ஏதும் இல்லை என்றும், மேற்படி நிறுவனமானது நாளொன்றுக்கு 23.10 MLD அளவு காவிரி ஆற்றிலிருந்து தண்ணீர் எடுப்பதற்காக முன்பணத்தொகை(Advance Payment) (2020-2021ஆம் ஆண்டிற்கு) ரூ.1,26,47,250/- செலுத்தப்பட்டுள்ளது தெரியவருகிறது.

1. மேலும் தண்ணீர் மற்றும் காற்று சட்டங்களின் கீழ், 31.03.2020 வரை செல்லத்தக்க தமிழ்நாடு மாசுக்கட்டுப்பாட்டு வாரியம் வழங்கிய இசைவு ஆணையின் நகலை தமிழ்நாடு செய்தித்தாள் மற்றும் காசு நிறுவனம் சமர்ப்பித்துள்ளது.
2. மேற்படி நிறுவனம் நாளொன்றிற்கு 23.10MLD தண்ணீர் எடுத்துவருகிறார்கள். மேலும் காசு தயாரிக்க பயன்படுத்தப்பட்ட கழிவுநீர் நவீன முறையில் சுத்திகரிப்பு செய்யப்பட்டு இறுதியாக கிடைக்கப்பெறும் நீர் வண்டல் தேங்கும் அமைப்பில் சேகரிக்கப்பட்டு கிடைக்கும் நீரும்,வண்டலும் அருகாமையில் உள்ள விளைநிலங்களுக்கு இலவசமாக வழங்கப்படுகிறது.
3. தமிழ்நாடு செய்தித்தாள் மற்றும் காசு நிறுவனம் காவிரி ஆற்றிலிருந்து தண்ணீர் எடுப்பதற்கு எதிராக நாளது தேதிவரை எந்தவித புகாரும் வரப்பெறவில்லை. மேலும் இந்நிறுவனமானது அரசாணை எண்.227


நாள்: 20.11.2017 ல் குறிப்பிடப்பட்டுள்ள சாதாரண மற்றும் சிறப்புவிதிகளை மீறவில்லை.


4. தமிழ்நாடு செய்தித்தாள் மற்றும் காகித நிறுவனத்தால் ஒப்பந்தம் புதுப்பித்தலை எதிர்நோக்கி காவிரி ஆற்றிலிருந்து தண்ணீர் எடுப்பதற்கு முன்பணத்தொகையாக 2020-2021ஆம் ஆண்டிற்கு ரூ.1,26,47,250/- செலுத்தப்பட்டுள்ளது.
5. இந்நிறுவனமானது தண்ணீர் கிடைக்கும் இடத்திலும், சேரும் இடத்திலும் உரிய முறையில் எண்ணியில் மீட்டர் (Digital Meter) அமைக்கப்பட்டு முறையாக கணக்கீடு செய்யப்பட்டு வருகிறது. மேலும் பழுது ஏற்பட்டால் உடனடியாக மாற்ற மற்றொரு மீட்டர் இருப்பில் உள்ளது.

எனவே, தமிழ்நாடு செய்தித்தாள் மற்றும் காகித நிறுவனம் காவிரி ஆற்றிலிருந்து தொழிற்சாலை உபயோகத்திற்காக நாள் ஒன்றுக்கு 23.10MLD தண்ணீர் எடுத்துக்கொள்ள 31.10.2020 முதல் 31.10.2025 வரை ஐந்து வருடங்களுக்கு ஒப்பந்த காலத்தினை நீட்டித்து அரசாணை (நிலை) எண்.227, பொதுப்பணி (W2) துறை நாள்:20.11.2017-ல் தெரிவிக்கப்பட்டுள்ள நிபந்தனைகளுக்கு உட்பட்டு அனுமதி வழங்கலாம் என்பதை தெரிவித்துக்கொள்கிறேன்.

ஓம்/-ச.சிவராசு,
மாவட்ட ஆட்சித் தலைவர்,
திருச்சிராப்பள்ளி.

/உத்தரவுப்படி/


மாவட்ட ஆட்சித்தலைவருக்காக,
திருச்சிராப்பள்ளி.


28/9/2020



AUTHORISATION No. 24HFC45404642 dated 09/02/2024

Proceeding No. T2/TNPCB/F.0142TRY/HWA/RL/TRY/2024 dated 09/02/2024

Sub: Tamil Nadu Pollution Control Board – Hazardous Waste Authorization-Fresh- M/s. TAMIL NADU NEWSPRINT AND PAPERS LTD. UNIT-II (PAPER BOARD UNIT) - (PHASE I), S.F.No. MONDIPATTI VILLAGE:1/1,2,3A&3B, 2/1&2,3/1 to 6, 4/1to 3, 5/1 to 3, 6/1 to 4, 7/1 to 7, 8/1 to 3, 9/2, 10, 11/1,2A,2B,3 to 5, 12/1 to 5, 6A &6B, 13/1 to 4, 14/1&2, 15/1,2A,2B,2C Part,2D,3, 4A Part, 4B Part & 4D Part, 16/1,2A Part,2G, 2H, 2I, 2J, 5A, 6A, 6D, 6E Part, 6F&6G, 17/1,2 Part,3 Part&4 Part, 18, 22/1,2&3 Part, 31/1 to 5, 6A &6B, 40/1&2, 41, 42, 43/1to10, 44/1 to 6, 45/1to4, 46/1 part, 108, 109, 110, 297, 298/1 to 10, 299/1,2,3A,3B, 4 & 5, 300/1 to 5, 301/1 to 10, 303/3, 304 K.PERIYAPTTI (NORTH)VILLAGE: 2/1A, 1C to F, 1S to Z, 1A1A, 1A1B, 1AF, 1AG &2, 3/1, 2A, 2B, 3A1, 3A2, 3B1, 3B2, 3C1, 3C2, 3D1 &3D2,7/1A, 1B, 1C1, 1D1, 1E to G, 2A & 3A, 13/1, 2A to 7A, 7B & 7C to 7H, 14/1A to 1E, 2A &2B, 19/1A to 1C, 2A, 2B & 3A to 3D, 20/1 to 3, 21/1 to 3, 22/2 to 14, 23/1,47/1A &2, 48/1 to 5, 405/1A1 to 1A5, 1B &2, 406/1A, 1B, 2A &2B, 407/1 to 7, 408/1, 2, 3A & 3B, 409/1-A, 410/1 to 4, 415/2, 462/1A to 1C &2A to 2E, 464/1A, 1B, 2A & 2B, 465/1A to 1E, 2A &2B, 466/1&2, 467, 468/1 to 3, 470, 471, 472/1 to 3, 473/1,2, 474/1 to 3, 475/1A to 1C &2,476 to 478, 479/1 to 3, 480/1& 2, 481/1 to 34, 482/1 to 4, 5A, 5B, 6A& 6B, 484/2A2, &2B, 506/1 to 6, 507, 508/1A to 1D, 508/2A&2B, 509/1A, 1B, 2A&2B, 518/1, 2A to 2D,3, 4A to 4C& 5, 520/2, 521/1 &2A to 2D, 522/1, 523/1A to 1D, 2 to 4, 5A to 5D, 6 &7, 524/1, 2A, 2B, 3&4, 525/1A to 1E, 2 & 3A to 3E, 526/1 to 4, 527/1&2, 528/1A, 1B& 2A1, 529/1A, 4, 5, 6A & 6B, 530/1 to 6 CHETTICHATRAM VILLAGE:1/1 to 5, 6A, 6B &7, 2/1A, 1B& 2 to 13, 3/2, 3A, 4A, 4B &4C1, 4/3A, 2, 9A, 10 to 18, 23A&24, 5/2A to 2K, 6/1A to1C, 7/2, 3, 4A, 4B, 5A, 5B & 6, 59/1-A& 2 to 4, 60, 61/1&2,70/1&2, MONDIPATTY Village, MANAPPAARAI Taluk, Thiruchirapalli District - Authorization under Rule 6 (2) of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 enacted under Environment (Protection) Act, 1986 – Issued- Reg.

Ref: 1. Application No.: 45404642 dated:21.05.2022 & resubmitted on 12.08.2023 under HOWM Rules, 2016.
2. HWA-IR.No.0142TRY/HWA/RL/JCEE-M/TRY/2023 dated 29.09.2023

FORM 2

[See rule 6 (2)]

FORM FOR GRANT OR RENEWAL OF AUTHORISATION TO THE OCCUPIERS, RECYCLERS, REPROCESSORS, REUSERS, USER AND OPERATORS OF DISPOSAL FACILITIES

1. Number of authorization: 24HFC45404642 and dated : 09/02/2024

2. CHIEF GENERAL MANAGER (BOARD PLANT) of M/s. TAMIL NADU NEWSPRINT AND PAPERS LTD. UNIT-II (PAPER BOARD UNIT) - (PHASE I) is hereby granted an Authorisation based on the enclosed signed Inspection report for Generation, Collection, Storage of hazardous or other wastes or both on the premises situated at S.F.No. MONDIPATTI VILLAGE:1/1,2,3A&3B, 2/1&2,3/1 to 6, 4/1to 3, 5/1 to 3, 6/1 to 4, 7/1 to 7, 8/1 to 3, 9/2, 10, 11/1,2A,2B,3 to 5, 12/1 to 5, 6A &6B, 13/1 to 4, 14/1&2, 15/1,2A,2B,2C Part,2D,3, 4A Part, 4B Part & 4D Part, 16/1,2A Part,2G, 2H, 2I, 2J, 5A, 6A, 6D, 6E Part, 6F&6G, 17/1,2 Part,3 Part&4 Part, 18, 22/1,2&3 Part, 31/1 to 5, 6A &6B, 40/1&2, 41, 42, 43/1to10, 44/1 to 6, 45/1to4, 46/1 part, 108, 109, 110, 297, 298/1 to 10, 299/1,2,3A,3B, 4 & 5, 300/1 to 5, 301/1 to 10, 303/3, 304 K.PERIYAPTTI (NORTH)VILLAGE: 2/1A, 1C to F, 1S to Z, 1A1A, 1A1B, 1AF, 1AG &2, 3/1, 2A, 2B, 3A1, 3A2, 3B1, 3B2, 3C1, 3C2, 3D1 &3D2,7/1A, 1B, 1C1, 1D1, 1E to G, 2A & 3A, 13/1, 2A to 7A, 7B & 7C to 7H, 14/1A to 1E, 2A &2B, 19/1A to 1C, 2A, 2B & 3A to 3D, 20/1 to 3, 21/1 to 3, 22/2 to 14, 23/1,47/1A &2, 48/1 to 5, 405/1A1 to 1A5, 1B &2, 406/1A, 1B, 2A &2B, 407/1 to 7, 408/1, 2, 3A & 3B, 409/1-A, 410/1 to 4, 415/2, 462/1A to 1C &2A to 2E, 464/1A, 1B, 2A& 2B, 465/1A to 1E, 2A &2B, 466/1&2, 467, 468/1 to 3, 470, 471, 472/1 to 3, 473/1,2, 474/1 to 3, 475/1A to 1C &2,476 to 478, 479/1 to 3, 480/1& 2, 481/1 to 34, 482/1 to 4, 5A, 5B, 6A& 6B, 484/2A2, &2B, 506/1 to 6, 507, 508/1A to 1D, 508/2A&2B, 509/1A, 1B, 2A&2B, 518/1, 2A to 2D,3, 4A to 4C& 5, 520/2, 521/1 &2A to 2D, 522/1, 523/1A to 1D, 2 to 4, 5A to 5D, 6 &7, 524/1, 2A, 2B, 3&4, 525/1A to 1E, 2 & 3A to 3E, 526/1 to 4, 527/1&2, 528/1A, 1B& 2A1, 529/1A, 4, 5, 6A & 6B, 530/1 to 6 CHETTICHATRAM VILLAGE:1/1 to 5, 6A, 6B &7, 2/1A, 1B& 2 to 13, 3/2, 3A, 4A, 4B &4C1, 4/3A, 2, 9A, 10 to 18, 23A&24, 5/2A to 2K, 6/1A to1C, 7/2, 3, 4A, 4B, 5A, 5B & 6, 59/1-A& 2 to 4, 60, 61/1&2,70/1&2, MONDIPATTY Village, MANAPPAARAI Taluk, Thiruchirapalli District.

Sl No	Schedule / Name of the Processes	Name of Hazardous Waste (with category No)	Quantity	Activities for which Authorization is issued
1	Schedule I /5. Industrial operations using mineral or synthetic oil as lubricant in hydraulic systems or other applications	5.1-Used or spent oil	30 T/Annum	Generation, Collection, Storage, Transportation and Disposal to Authorized Recyclers for Recovery and Reuse (Recyclable)
2	Schedule I /35. Purification and treatment of exhaust air/gases, water and waste water from the processes in this schedule and common industrial effluent treatment plants (CETP's)	35.1-Exhaust Air or Gas cleaning residue	2 T/Annum	Generation, Collection, Storage, and Disposal to CHWTSDF, Gummidipoondi for landfill (Landfillable)
3	Schedule I /35. Purification and treatment of exhaust air/gases, water and waste water from the processes in this schedule and common industrial effluent treatment plants (CETP's)	35.2-Spent ion exchange resin containing toxic metals	10 T/Annum	Generation, Collection, Storage, and Captive utilization as a fuel in power boilers for energy recovery in the M/s. TNPL, Unit – II, Captive Cogeneration Plant.(Utilizable)
4	Schedule I /35. Purification and treatment of exhaust air/gases, water and waste water from the processes in this schedule and common industrial effluent treatment plants (CETP's)	35.3-Chemical sludge from waste water treatment	12000 T/Annum	Generation, Collection, Storage, and send to cardboard manufacturers to be used as raw material. (Utilizable)
5	Schedule II /Class A: Based on Leachable Concentration Limits [TCLP/STLC]	A5-Lead concentration limit equal to (or) more than 5 mg/l	15 T/Annum	Generation, Collection, Storage, and send to Authorized Recycler M/s. Southern Power Industries for Recovery and Reuse. (Recyclable)
6	Schedule II /Class A: Based on Leachable Concentration Limits [TCLP/STLC]	A66-Copper concentration limit equal to (or) more than 25 mg/l	15 T/Annum	Generation, Collection, Storage, and send to Authorized Recyclers for Recovery and Reuse. (Recyclable)
7	Schedule II /Class C: Based on Hazardous Characteristics- C4-Toxic	51.Waste exhibits any of the Hazardous characteristics listed in Class C due to the presence of any hazardous constituents in the substances or wastes Used Glass Wool	60 T/Annum	Generation, Collection, Storage, and Disposal to CHWTSDF, Gummidipoondi for landfill (Landfillable)

3. This authorization shall be valid for a period upto 31/03/2028.

The Authorization is issued subject to the following general and special conditions annexed.

**For Member Secretary
Tamil Nadu Pollution Control Board
Chennai**

A. GENERAL CONDITIONS OF AUTHORIZATION

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986 and the rules made there under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by Tamil Nadu Pollution Control Board.
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this Authorisation.

PASSBOOK FOR MAINTAINING RECORDS OF HAZARDOUS AND OTHER WASTES
PURCHASED BY THE ACTUAL USERS
(ISSUED ALONGWITH AUTHORISATION)

Name and address of the Industry-Actual users	TAMIL NADU NEWSPRINT AND PAPERS LTD. UNIT-II (PAPER BOARD UNIT) - (PHASE I) Mondipatty, K. Periyapatti & Chettichathram villages
OCMMS File No	0142TRY/HWA
Mobile No	9442555982
E-mail Id	bhanuprasad@tnpl.co.in
Passbook Registration No	PB/24HFC45404642
Date of issue	09/02/2024
Validity period	09/02/2024 To 31/03/2028
Type and quantity of the Hazardous & Other Wastes permitted for procurement and recycling:	

SI No	Hazardous & Other Wastes Type	Quantity with unit	Source
1	Schedule III-Part-D- B3- Wastes containing principally organic constituents, which may contain metals and inorganic materials-B3020-Paper, paperboard and paper product wastes, provided they are not mixed with hazardous wastes-Waste and scrap of paper or paperboard of unbleached paper or paperboard or of corrugated paper or paperboard	1050 T/Annum	Domestic
2	Schedule III-Part-D- B3- Wastes containing principally organic constituents, which may contain metals and inorganic materials-B3020-Paper, paperboard and paper product wastes, provided they are not mixed with hazardous wastes-Waste and scrap of paper or paperboard of paper or paperboard made mainly of mechanical pulp	3150 T/Annum	Imported
3	Schedule III-Part-D- B3- Wastes containing principally organic constituents, which may contain metals and inorganic materials-B3020-Paper, paperboard and paper product wastes, provided they are not mixed with hazardous wastes-Waste and scrap of paper or paperboard of paper or paperboard made mainly of mechanical pulp	9450 T/Annum	Domestic
4	Schedule III-Part-D- B3- Wastes containing principally organic constituents, which may contain metals and inorganic materials-B3020-Paper, paperboard and paper product wastes, provided they are not mixed with hazardous wastes-Waste and scrap of paper or paperboard of other, including but not limited to (1) laminated paperboard, (2) Unsorted scrap.	2100 T/Annum	Imported
5	Schedule III-Part-D- B3- Wastes containing principally organic constituents, which may contain metals and inorganic materials-B3020-Paper, paperboard and paper product wastes, provided they are not mixed with hazardous wastes-Waste and scrap of paper or paperboard of other, including but not limited to (1) laminated paperboard, (2) Unsorted scrap.	5250 T/Annum	Domestic

For Member Secretary
Tamil Nadu Pollution Control Board
Chennai



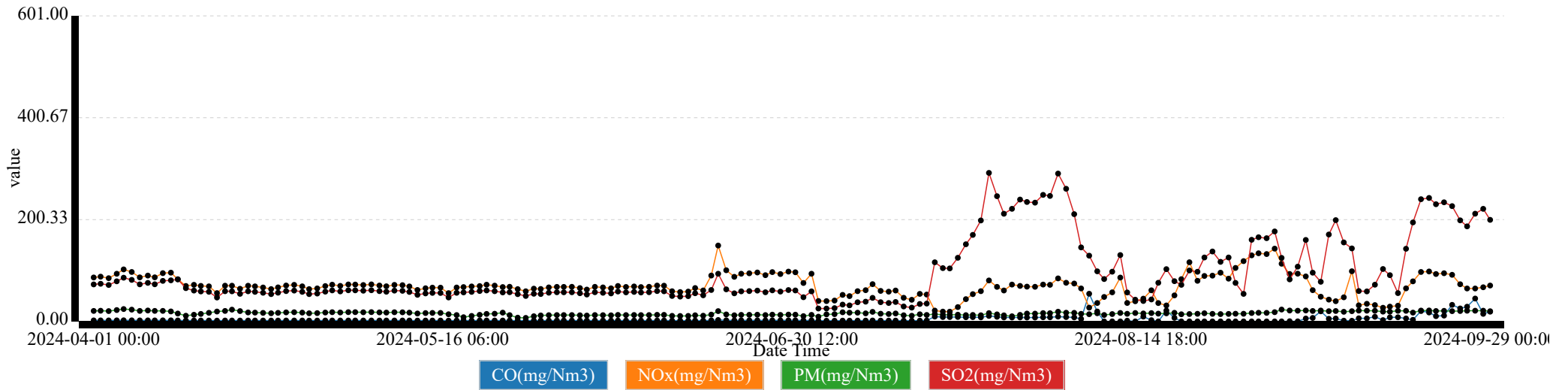
Average Report

Tamil Nadu Newsprint And Papers Limited - Unit II (Captive Co Generation Plant), Manapparai

Created By:- MTTNA, Created At:- 2024-10-29 14:58:14

From : 2024-04-01 00:00, To: 2024-09-29 00:00

STACK-daily - Average Data





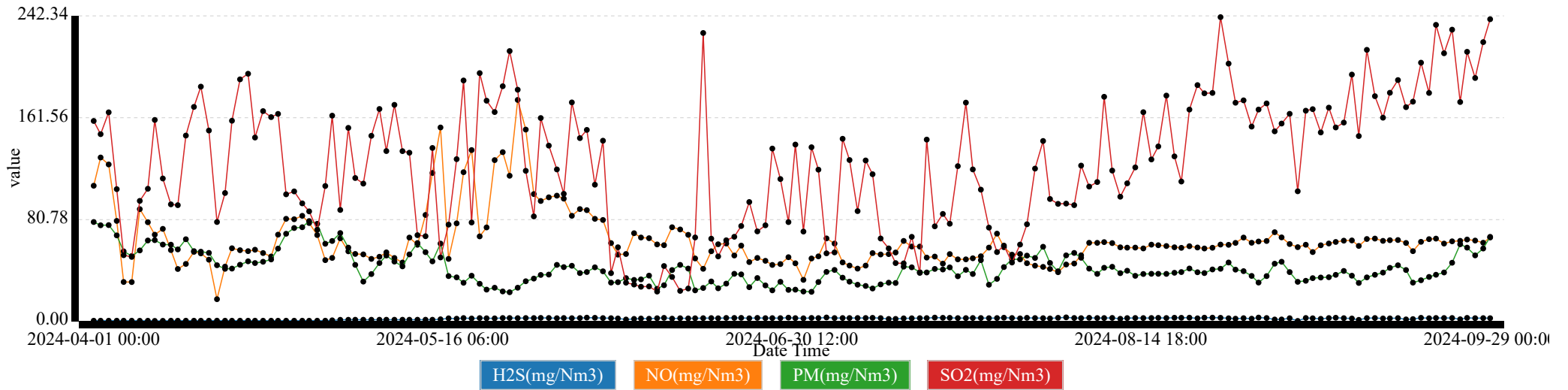
Average Report

Tamilnadu Newsprint and Papers Limited UNIT II,Trichy

Created By:- TNPL, Created At:- 2024-10-29 14:56:11

From : 2024-04-01 00:00, To: 2024-09-29 00:00

SRP_Boiler-daily - Average Data





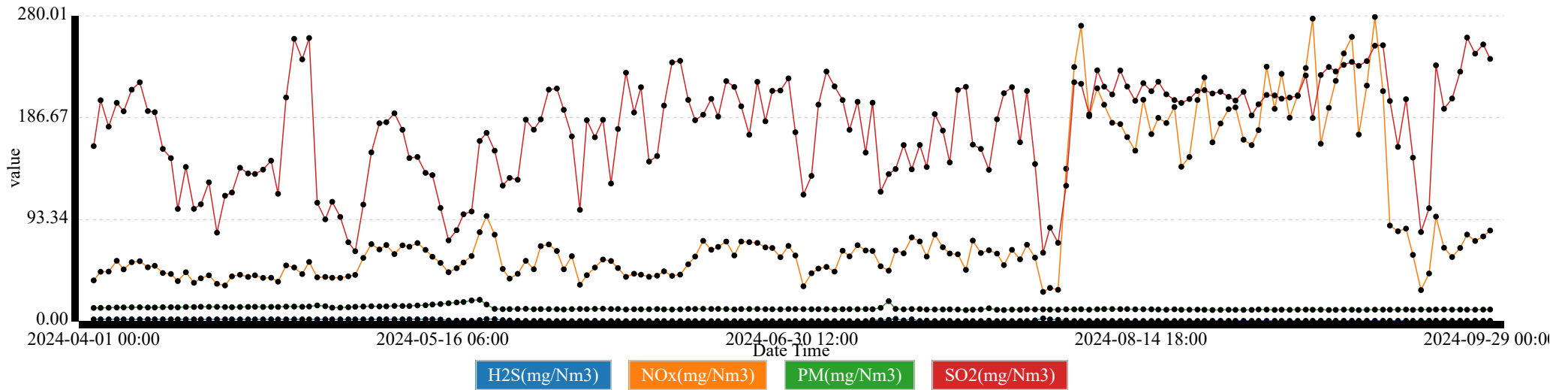
Average Report

Tamilnadu Newsprint and Papers Limited UNIT II,Trichy

Created By:- TNPL, Created At:- 2024-10-29 14:56:35

From : 2024-04-01 00:00, To: 2024-09-29 00:00

Lime_Kiln-daily - Average Data





CALIBRATION REPORT FOR GAS ANALYZER

TNPL, UNIT - II.			Model: S710 - MULTOR			SICK INDIA PVT LTD		
Date: 25.01.2024			Equipment Number: 1. S710(S.N.716189)			Done by: Bhuvaneshwaran B Witness by: Mr. Rajeyshkumar (TNPL)		
Analyzer Location: Stack – CEMS Analyzer Range: 0 – 200 mg/m ³ Online Result: 11 mg/m ³ Isokinetic Sampling Result: 13 mg/m ³ Calibration Due Date: 24.01.2025								
S. No	Component	Cylinder NO	Component	Cylinder Value unit	Cylinder Value	Before Calibration Value	After Calibration Value	Repeatability Drift
1	Factory Call	Nil	SPM	0.00 mg/m ³	0.01 mg/m ³	-0.000 %	0.002 mg/m ³	0.4 %
2	Factory Call	Nil	SPM	00.00 % of the full scale (140 mg/m ³)	145 mg/m ³	0.19 %	140 mg/m ³	0.4 % (Factor 10)



FOR SIPL



CALIBRATION REPORT FOR GAS ANALYZER

TNPL, UNIT - II.	Model: S710 - MULTOR	SICK INDIA PVT LTD
Date: 25.01.2024	Equipment Number: 1. S710(S.N.716189)	Done by: Bhuvaneshwaran B Witness by: Mr. Rajeyshkumar (TNPL)

Analyzer Location: Stack – CEMS
Analyzer Range: SO₂ – 0 to 500ppm, NO – 0 to 300ppm, CO – 0 to 400ppm
Analyser Measuring Technology: NDIR - NON-Dispersive Infrared Radiation
Calibration Due Date: 24.01.2025

S. No	Component	Cylinder NO	Date of Expiry	Parameter	Cylinder Value	Before Calibration Value	After Calibration Value	Drift
1	Zero	112280`	31.12.2024	SO ₂	N2(99.999%)	436	432	0.09%
				NO	N2(99.999%)	0.10	0.0	0.08%
				CO	N2(99.999%)	0.23	00	0.11
2	Span	M1407005 096	31.12.2024	SO ₂	432 PPM	436	432	-0.91%
				NO	292 PPM	289	292	1.03%
				CO	282 PPM	285	282	-1.05



For SIPL

DURAG INDIA	Calibration Report D-R 290 2G
	Date: 03.05.2024

REV 1.0/01/01/02/02/02/01/0/001

Customer Data:	
Customer	Tamil Nadu Newsprint and Papers Limited
Address	Mondipatti, Trichy - 621306

Basic Data Type:		
Stack Name	Recovery Boiler	
Device Type	Measuring Head	Reflector
Model Number	D-R 290 M	D-R 290 RH
Serial Number	1287788	1288780
Calibration Pathlength	Flange to Flange distance is 6400 mm	

Parameter Details:	
Raw signal	Optical Density
Raw signal range	0 to 2.0 OD
Analog signal output	Dust concentration.
Dust concentration range	0 to 200 mg/m ³
Integration time	30 Sec.

Calibration Details:		
Calibration cycle	Output	Tolerance
Zero point	0.0 %	-0.1% to 0.2%
Pollution	0.4 %	< 9.0 %
Reference point	70.0 %	66.0% to 72.0%

Note: Next Calibration Due Either by or on 02.11.2024 Replacement of Either Light source or Main PCB in Measuring Head of dust monitor.

For Durag India Instrumentation Private Limited

DURAG INDIA INSTRUMENTATION PRIVATE LIMITED

28-B/1, K.J.A.D.B, Peenya 1st Stage | Peenya, Bengaluru 560 058 | Karnataka, India | Phone: +91 80 68280 700 | info@durag.com

PAN: AACCD4792R | CIN: U33140KA2006PTCO39133 | MSMED Reg No: 290201111591 | GSTIN Reg No: 29AACCD4792R1ZT

Commissionerate: Bengaluru-North West | Div: North West Div-1, Range:BNWD1

Bank details: ICICI Bank Limited | Rajajinagar Branch, Bengaluru | Current a/c: 029605004006

Bank Code/MICR: 560229023 | SWIFT: ICICINBBCTS | RTGS/NFTI/IFSC: ICIC0000296

Authorized Signature



B. Rajan

Date: 20/03/2024

Work Order Number: TEC/232425007008 Dated 16-FEB-2024

CALIBRATION REPORT

Certificate Number: NA

Room Temperature: 25° C

Customer Name	Tamil Nadu Newsprint & Papers Ltd
End User Plant/Section/Unit	SRP /Recovery Boiler stack
Date of Calibration	20/03/2024
Due Date of Calibration	Quarterly
Analyzer	ZRE
PART CODE	ZREABFY3-FHFHY-YYYYZDE-YEYAA
SERIAL NUMBER	N9K0864
Measuring Gas	NO, SO2, O2
Power Supply	230 V AC +/-10(50HZ)

PARAMETER DETAILS:

Parameter Type	Signal Input Value
NO	48014
SO2	28179
O2	10054

AVAILABLE CYLINDER DETAILS:

Cylinder TYPE	Cylinder TYPE
Zero Gas N2	99.999%
Span Gas NO	479 PPM
Span Gas SO2	472 PPM
O2 Lower	1.6 %
O2 Higher	20.5%

Calibration Check: ZERO Calibration

Feeding Gas	Feeding Gas Conc.	NO Before calibration	NO After calibration	SO2 Before calibration	SO2 After calibration
N2	99.999%	12 PPM	0 PPM	8 PPM	3 PPM

Calibration Check: SPAN Calibration

SPAN Gas	Range	SPAN Gas Conc.	Before calibration	After calibration
NO	0-5000 ppm	479 PPM	517 PPM	479 PPM
SO2	0-5000 ppm	472 PPM	476 PPM	472 PPM
O2	21%	10.01%	14.5%	10.01%

NO, SO2 Zero calibration: **Found ok**

NO, SO2 Span calibration: **Found ok**

M. N. Srinivas
20/03/2024

Signature of Fuji Engineer

Remark:

Signal Input value: 25000 to 60000 (passing Zero gas to analyser) is healthy condition of analyser.



Date: 13.04.2024

CALIBRATION CERTIFICATE OF LIME KILN ESP O/L GAS ANALYZER

Customer Name: Tamil Nadu Newsprint and Papers Limited, Unit-II.
Location : Mondipatti, Trichy, Tamil Nadu

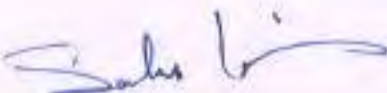
Analyzer Details

F.No : 3.456715.3
Analyzer model : AO2020(Limas21)
Components & Ranges: H2S: 0-200PPM

Calibration Details

Parameter	Before Calibration						After Calibration					
	Zero			Span			Zero			Span		
	Gas Con. (ppm)	Actual (ppm)	% Error	Span Gas Con. (ppm)	Actual (ppm)	% Error	Gas Con. (ppm)	Actual (ppm)	% Error	Span Gas Con. (ppm)	Actual (ppm)	% Error
H2S	0	3.8	1.9	160	153	4.37	0	0.04	0.02	160	160.7	0.43

Note: Calibration certificate valid for six months from date of calibration.


C SUBIR BISWAS

DURAG INDIA

Calibration Report D-R 290 2G

Date: 02.05.2024

REV: GA/IND/DC/MDG-2019-001

Customer Data:

Customer	Tamil Nadu Newsprint and Papers Limited
Address	Mondipatti, Trichy - 621306

Basic Data Type:

Stack Name	Lime Kiln	
Device Type	Measuring Head	Reflector
Model Number	D-R 290 M	D-R 290 RH
Serial Number	1287784	1288779
Calibration Pathlength	Flange to Flange distance is 1852 mm	

Parameter Details:

Raw signal	Optical Density
Raw signal range	0 to 2.0 OD
Analog signal output	Dust concentration.
Dust concentration range	0 to 200 mg/m ³
Integration time	30 Sec.

Calibration Details:

Calibration cycle	Output	Tolerance
Zero point	0.0 %	-0.1% to 0.2%
Pollution	0.3 %	< 9.0 %
Reference point	70.0 %	66.0% to 72.0%

Note: Next Calibration Due Either by or on 01.11.2024 Replacement of Filter Light source or Main PCB in Measuring Head of dust monitor.

For Durag India Instrumentation Private Limited

DURAG INDIA INSTRUMENTATION PRIVATE LIMITED

28-B/L, K.I.A.D.B. Peenya 1st Stage | Peenya, Bengaluru 560 058 | Karnataka, India | Phone: +91 80 63780 700 | info@durag.com

PAN: AACCD3792R | CIN: U33130KA2006PTCO39133 | MSME Reg No: 290201111591 | GSTIN Reg No: 29AACCD3792R1ZT

Commissionerate: Bengaluru-North West | Div: North West Div-3, Range:BNWD1

Bank details: ICICI Bank Limited | Rajajinagar Branch, Bengaluru | Current a/c: 029605004006

Bank Code/MICR: 560229023 | SWIFT: ICICIINBBCTS | RTGS/NEFT/IFSC: ICIC0000296



Date: 20/03/2024

Work Order Number: TEC/232425007008 Dated 16-FEB-2024

CALIBRATION REPORT

Certificate Number: NA

Room Temperature: 25° C

Customer Name	Tamil Nadu Newsprint & Papers Ltd
End User Plant/Section/Unit	SRP/Lime Kiln stack
Date of Calibration	19/03/2024
Due Date of Calibration	Quarterly
Analyzer	ZRE
PART CODE	ZREABFY3-FHFHY-YYYY2DE-YEYAA
SERIAL NUMBER	N1P1206
Measuring Gas	NO, SO2, O2
Power Supply	230 VAC +/-10(50HZ)

PARAMETER DETAILS:

Parameter Type	Signal Input Value
NO	47743
SO2	28074

AVAILABLE CYLINDER DETAILS:

Cylinder TYPE	Cylinder TYPE
Zero Gas N2	99.999%
Span Gas NO	479 PPM
Span Gas SO2	472 PPM
O2 Lower	1.6 %
O2 Higher	20.5%

Calibration Check: ZERO Calibration

Feeding Gas	Feeding Gas Conc.	NO Before calibration	NO After calibration	SO2 Before calibration	SO2 After calibration
N2	99.999%	12 PPM	0 PPM	8 PPM	0 PPM

Calibration Check: SPAN Calibration

SPAN Gas	SPAN Gas Conc.	Before calibration	After calibration
NO	479 PPM	489 PPM	479 PPM
SO2	472 PPM	482 PPM	472 PPM

NO, SO2 Zero calibration: Found ok

NO, SO2 Span calibration: Found ok

M. M. Srinivas
20/03/2024
Signature of Fuji Engineer

Remarks:

Signal Input value: 25000 to 60000 (passing Zero gas to analyser) is healthy condition of analyser.



Date: 13.04.2024

CALIBRATION CERTIFICATE OF LIME KILN ESP O/L GAS ANALYZER

Customer Name: Tamil Nadu Newsprint and Papers Limited, Unit-II.
Location : Mondipatti, Trichy, Tamil Nadu

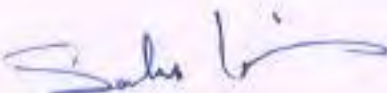
Analyzer Details

F.No : 3.456715.3
Analyzer model : AO2020(Limas21)
Components & Ranges: H2S: 0-200PPM

Calibration Details

Parameter	Before Calibration						After Calibration					
	Zero			Span			Zero			Span		
	Gas Con. (ppm)	Actual (ppm)	% Error	Span Gas Con. (ppm)	Actual (ppm)	% Error	Gas Con. (ppm)	Actual (ppm)	% Error	Span Gas Con. (ppm)	Actual (ppm)	% Error
H2S	0	3.8	1.9	160	153	4.37	0	0.04	0.02	160	160.7	0.43

Note: Calibration certificate valid for six months from date of calibration.


C SUBIR BISWAS

TEST REPORT

Test Report No & Date CTL/CH/N-21503/2024-25 & 03.05.2024
Sample Number N-21503/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Indoor Air Quality
Sampling Location COAL STORAGE AREA
Sample Drawn on 24.04.2024
Sample Received on 27.04.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2023-DTD-2016
Analysis Started on 27.04.2024
Analysis Completed on 03.05.2024

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.411	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.022	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.041	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	0.016	0.05*

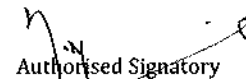
*Occupational Safety and Health Standards

BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT

Verified by 

For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory 

Page 1 of 1

G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

The Report shall not be used to malign, defame and for any malicious purpose.
 The Report is meant only for sole use of the addressee to promote his/her own business.

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennaitesting@chennaitestinglab.com

TEST REPORT

Test Report No & Date CTL/CH/N-21504/2024-25 & 03.05.2024
Sample Number N-21504/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Indoor Air Quality
Sampling Location FINISHING HOUSE AREA
Sample Drawn on 24.04.2024
Sample Received on 27.04.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2932-DTL-2020
Analysis Started on 27.04.2024
Analysis Completed on 03.05.2024

Test Results:

The above sample tested as received, and results are as follows:

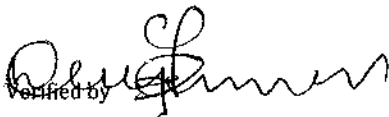
SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.080	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.014	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.026	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*

*Occupational Safety and Health Standards

BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

Verified by 

Authorised Signatory

G. MANIKANDAN
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(CHEMICAL)

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Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com

TEST REPORT

Test Report No & Date CTL/CH/N-21505/2024-25 & 03.05.2024
Sample Number N-21505/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Indoor Air Quality
Sampling Location CHEMICAL ADDITIVE AREA
Sample Drawn on 24.04.2024
Sample Received on 27.04.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2933-DTL-2020
Analysis Started on 27.04.2024
Analysis Completed on 03.05.2024

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.320	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.03	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.051	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*

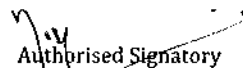
*Occupational Safety and Health Standards

BDL - Below Detection Limit(D.L - Detection Limit)

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TEST REPORT

Test Report No & Date CTL/CH/N-21506/2024-25 & 03.05.2024
Sample Number N-21506/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Indoor Air Quality
Sampling Location ASH HANDLING AREA
Sample Drawn on 25.04.2024
Sample Received on 27.04.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:1985-DTD-2016
Analysis Started on 27.04.2024
Analysis Completed on 03.05.2024

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.850	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.027	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.036	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*

*Occupational Safety and Health Standards

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TEST REPORT

Test Report No & Date CTL/CH/N-21507/2024-25 & 03.05.2024
Sample Number N-21507/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Indoor Air Quality
Sampling Location HARDWOOD CHIPPER SCREEN AREA
Sample Drawn on 24.04.2024
Sample Received on 27.04.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2611-DTI-2019
Analysis Started on 27.04.2024
Analysis Completed on 03.05.2024

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	1.120	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.023	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.045	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*


*Occupational Safety and Health Standards

BDL - Below Detection Limit(D.L - Detection Limit)

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 Head- Environment Division
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TEST REPORT

Test Report No & Date CTL/CH/N-21508/2024-25 & 03.05.2024
Sample Number N-21508/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Indoor Air Quality
Sampling Location SRP - CAUSTICIZER AREA
Sample Drawn on 26.04.2024
Sample Received on 27.04.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2000-DTC-2016
Analysis Started on 27.04.2024
Analysis Completed on 03.05.2024

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.260	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.014	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.029	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*

*Occupational Safety and Health Standards

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TEST REPORT

Test Report No & Date: CTL/CH/N-21509/2024-25 & 03.05.2024
Sample Number: N-21509/24-25
Name of the Customer: M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address: Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 621 306, Tamil Nadu.

Sample Drawn by: Laboratory
Sample Name: Indoor Air
Sample Description: Indoor Air Quality
Sampling Location: LIME CRUSHER AREA
Sample Drawn on: 25.04.2024
Sample Received on: 27.04.2024
Sampling Plan & Procedure: CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity: 1 No
Equipment used for Sampling: RDS Sampler S.No:2933-DTL-2020
Analysis Started on: 27.04.2024
Analysis Completed on: 03.05.2024

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.712	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.042	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.059	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*

*Occupational Safety and Health Standards

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-22637/2024-25 & 30.05.2024
Sample Number N-22637/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Secondary Fugitive Emission Monitoring
Sampling Location COAL STORAGE AREA
Sample Drawn on 21.05.2024
Sample Received on 24.05.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2023-DTD-2016
Analysis Started on 24.05.2024
Analysis Completed on 30.05.2024

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.295	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.019	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.032	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	0.011	0.05*


*Occupational Safety and Health Standards

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-22638/2024-25 & 30.05.2024
Sample Number N-22638/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Secondary Fugitive Emission Monitoring
Sampling Location FINISHING HOUSE AREA
Sample Drawn on 20.05.2024
Sample Received on 24.05.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2932-DTL-2020
Analysis Started on 24.05.2024
Analysis Completed on 30.05.2024

Test Results:

The above sample tested as received, and results are as follows:

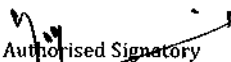
SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.067	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.011	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.022	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*

*Occupational Safety and Health Standards
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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-22639/2024-25 & 30.05.2024
Sample Number N-22639/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Secondary Fugitive Emission Monitoring
Sampling Location CHEMICAL ADDITIVE AREA
Sample Drawn on 20.05.2024
Sample Received on 24.05.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2933-DTL-2020
Analysis Started on 24.05.2024
Analysis Completed on 30.05.2024

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.227	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.024	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.042	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*

*Occupational Safety and Health Standards

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-22640/2024-25 & 30.05.2024
Sample Number N-22640/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Secondary Fugitive Emission Monitoring
Sampling Location ASH HANDLING AREA
Sample Drawn on 21.05.2024
Sample Received on 24.05.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:1985-DTD-2016
Analysis Started on 24.05.2024
Analysis Completed on 30.05.2024

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.309	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.019	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.031	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-22641/2024-25 & 30.05.2024
Sample Number N-22641/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Secondary Fugitive Emission Monitoring
Sampling Location HARDWOOD CHIPPER SCREEN AREA
Sample Drawn on 20.05.2024
Sample Received on 24.05.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2611-DTI-2019
Analysis Started on 24.05.2024
Analysis Completed on 30.05.2024

Test Results:

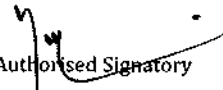
The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.983	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.029	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.052	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*

*Occupational Safety and Health Standards
BDL - Below Detection Limit(D.L - Detection Limit)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date: CTL/CH/N-22642/2024-25 & 30.05.2024
Sample Number: N-22642/24-25
Name of the Customer: M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address: Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 621 306, Tamil Nadu.

Sample Drawn by: Laboratory
Sample Name: Indoor Air
Sample Description: Secondary Fugitive Emission Monitoring
Sampling Location: SRP - CAUSTICIZER AREA
Sample Drawn on: 20.05.2024
Sample Received on: 24.05.2024
Sampling Plan & Procedure: CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity: 1 No
Equipment used for Sampling: RDS Sampler S.No:2000-DTC-2016
Analysis Started on: 24.05.2024
Analysis Completed on: 30.05.2024

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.187	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.011	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.024	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*

*Occupational Safety and Health Standards
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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-22643/2024-25 & 30.05.2024
Sample Number N-22643/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Secondary Fugitive Emission Monitoring
Sampling Location LIME CRUSHER AREA
Sample Drawn on 20.05.2024
Sample Received on 24.05.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2933-DTL-2020
Analysis Started on 24.05.2024
Analysis Completed on 30.05.2024

Test Results:

The above sample tested as received, and results are as follows:

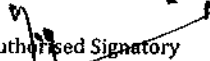
SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.456	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.036	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.053	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*

*Occupational Safety and Health Standards
BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT


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Page 1 of 1

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date **CTL/CH/N-24931/2024-25 & 03.07.2024**
 Sample Number **N-24931/24-25**
 Name of the Customer **M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,**
 Address **Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.**

Sample Drawn by **Laboratory**
 Sample Name **Indoor Air**
 Sample Description **Secondary Fugitive Emission Monitoring**
 Sampling Location **COAL STORAGE AREA**
 Sample Drawn on **25.06.2024**
 Sample Received on **27.06.2024**
 Sampling Plan & Procedure **CTL/QSP/F-89 & CTL/SOP/AIR/024**
 Sample Quantity **1 No**
 Equipment used for Sampling **RDS Sampler S.No:2023-DTD-2016**
 Analysis Started on **27.06.2024**
 Analysis Completed on **03.07.2024**

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.218	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.015	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.027	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	0.019	0.05*


*Occupational Safety and Health Standards

BDL - Below Detection Limit(D.L - Detection Limit)

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TEST REPORT

Test Report No & Date CTL/CH/N-24932/2024-25 & 03.07.2024
Sample Number N-24932/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Secondary Fugitive Emission Monitoring
Sampling Location FINISHING HOUSE AREA
Sample Drawn on 25.06.2024
Sample Received on 27.06.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2932-DTL-2020
Analysis Started on 27.06.2024
Analysis Completed on 03.07.2024

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.092	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.013	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.028	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*

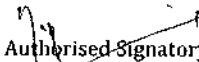
*Occupational Safety and Health Standards

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-24933/2024-25 & 03.07.2024
Sample Number N-24933/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Secondary Fugitive Emission Monitoring
Sampling Location CHEMICAL ADDITIVE AREA
Sample Drawn on 24.06.2024
Sample Received on 27.06.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2933-DTL-2020
Analysis Started on 27.06.2024
Analysis Completed on 03.07.2024

Test Results:

The above sample tested as received, and results are as follows:

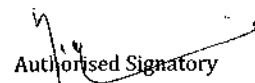
SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.346	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.026	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.049	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*

*Occupational Safety and Health Standards
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TEST REPORT

Test Report No & Date CTL/CH/N-24934/2024-25 & 03.07.2024
Sample Number N-24934/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Secondary Fugitive Emission Monitoring
Sampling Location ASH HANDLING AREA
Sample Drawn on 24.06.2024
Sample Received on 27.06.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:1985-DTD-2016
Analysis Started on 27.06.2024
Analysis Completed on 03.07.2024

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.478	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.024	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.039	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*

*Occupational Safety and Health Standards

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date **CTL/CH/N-24935/2024-25 & 03.07.2024**
 Sample Number **N-24935/24-25**
 Name of the Customer **M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,**
 Address **Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.**

Sample Drawn by **Laboratory**
 Sample Name **Indoor Air**
 Sample Description **Secondary Fugitive Emission Monitoring**
 Sampling Location **HARDWOOD CHIPPER SCREEN AREA**
 Sample Drawn on **24.06.2024**
 Sample Received on **27.06.2024**
 Sampling Plan & Procedure **CTL/QSP/F-89 & CTL/SOP/AIR/024**
 Sample Quantity **1 No**
 Equipment used for Sampling **RDS Sampler S.No:2611-DTI-2019**
 Analysis Started on **27.06.2024**
 Analysis Completed on **03.07.2024**

Test Results:

The above sample tested as received, and results are as follows:


SLNO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	1.090	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.022	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.040	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*

*Occupational Safety and Health Standards
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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-24936/2024-25 & 03.07.2024
Sample Number N-24936/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Secondary Fugitive Emission Monitoring
Sampling Location SRP - CAUSTICIZER AREA
Sample Drawn on 24.06.2024
Sample Received on 27.06.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2000-DTC-2016
Analysis Started on 27.06.2024
Analysis Completed on 03.07.2024

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.212	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.017	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.033	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*

*Occupational Safety and Health Standards
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TEST REPORT

Test Report No & Date: CTL/CH/N-24937/2024-25 & 03.07.2024
Sample Number: N-24937/24-25
Name of the Customer: M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address: Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 621 306, Tamil Nadu.

Sample Drawn by: Laboratory
Sample Name: Indoor Air
Sample Description: Secondary Fugitive Emission Monitoring
Sampling Location: LIME CRUSHER AREA
Sample Drawn on: 25.06.2024
Sample Received on: 27.06.2024
Sampling Plan & Procedure: CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity: 1 No
Equipment used for Sampling: RDS Sampler S.No:2933-DTL-2020
Analysis Started on: 27.06.2024
Analysis Completed on: 03.07.2024

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.526	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.032	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.048	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*

*Occupational Safety and Health Standards
BDL - Below Detection Limit(D.L - Detection Limit)

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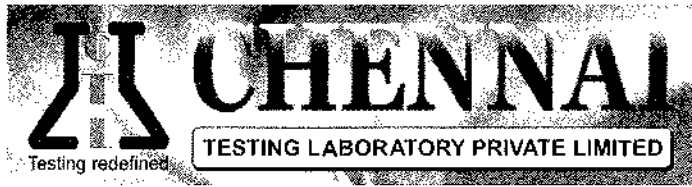
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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-26953/2024-25 & 07.08.2024
Sample Number N-26953/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Secondary Fugitive Emission Monitoring
Sampling Location COAL STORAGE AREA
Sample Drawn on 29.07.2024
Sample Received on 01.08.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2023-DTD-2016
Analysis Started on 01.08.2024
Analysis Completed on 07.08.2024

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.294	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.021	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.039	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	0.017	0.05*

*Occupational Safety and Health Standards

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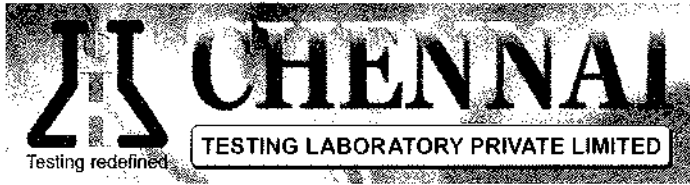
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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-26957/2024-25 & 07.08.2024
Sample Number N-26957/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Secondary Fugitive Emission Monitoring
Sampling Location FINISHING HOUSE AREA
Sample Drawn on 30.07.2024
Sample Received on 01.08.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2932-DTL-2020
Analysis Started on 01.08.2024
Analysis Completed on 07.08.2024

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.086	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.01	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.022	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*

*Occupational Safety and Health Standards

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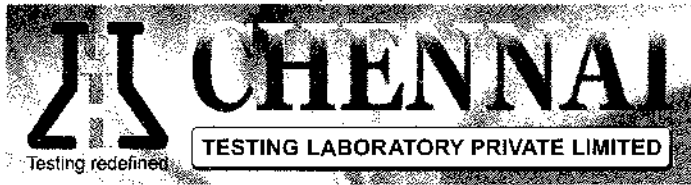
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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-26956/2024-25 & 07.08.2024
Sample Number N-26956/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Secondary Fugitive Emission Monitoring
Sampling Location CHEMICAL ADDITIVE AREA
Sample Drawn on 29.07.2024
Sample Received on 01.08.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2933-DTL-2020
Analysis Started on 01.08.2024
Analysis Completed on 07.08.2024

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.295	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.024	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.045	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*

*Occupational Safety and Health Standards

BDL - Below Detection Limit(D.L - Detection Limit)

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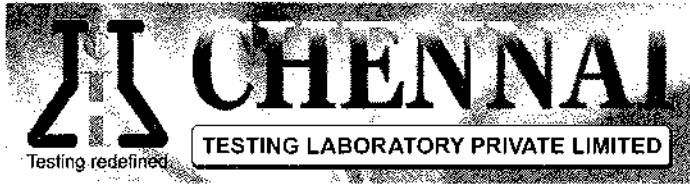
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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-26954/2024-25 & 07.08.2024
Sample Number N-26954/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Secondary Fugitive Emission Monitoring
Sampling Location ASH HANDLING AREA
Sample Drawn on 29.07.2024
Sample Received on 01.08.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:1985-DTD-2016
Analysis Started on 01.08.2024
Analysis Completed on 07.08.2024

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.434	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.026	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.043	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*

*Occupational Safety and Health Standards

BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

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(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-26955/2024-25 & 07.08.2024
Sample Number N-26955/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Secondary Fugitive Emission Monitoring
Sampling Location HARDWOOD CHIPPER SCREEN AREA
Sample Drawn on 29.07.2024
Sample Received on 01.08.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2611-DTI-2019
Analysis Started on 01.08.2024
Analysis Completed on 07.08.2024

Test Results:

The above sample tested as received, and results are as follows:


SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	1.269	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.024	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.045	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*

*Occupational Safety and Health Standards
 BDL - Below Detection Limit(D.L - Detection Limit)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-26958/2024-25 & 07.08.2024
Sample Number N-26958/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Secondary Fugitive Emission Monitoring
Sampling Location SRP - CAUSTICIZER AREA
Sample Drawn on 30.07.2024
Sample Received on 01.08.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2000-DTC-2016
Analysis Started on 01.08.2024
Analysis Completed on 07.08.2024

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.147	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.013	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.027	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*

*Occupational Safety and Health Standards
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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-26959/2024-25 & 07.08.2024
Sample Number N-26959/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Secondary Fugitive Emission Monitoring
Sampling Location LIME CRUSHER AREA
Sample Drawn on 30.07.2024
Sample Received on 01.08.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2933-DTL-2020
Analysis Started on 01.08.2024
Analysis Completed on 07.08.2024

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.731	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.044	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.059	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*

*Occupational Safety and Health Standards

BDL - Below Detection Limit(D.L - Detection Limit)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date: CTL/CH/N-28104/2024-25 & 02.09.2024
Sample Number: N-28104/24-25
Name of the Customer: M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address: Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 621 306, Tamil Nadu.

Sample Drawn by: Laboratory
Sample Name: Indoor Air
Sample Description: Secondary Fugitive Emission Monitoring
Sampling Location: COAL STORAGE AREA
Sample Drawn on: 21.08.2024
Sample Received on: 24.08.2024
Sampling Plan & Procedure: CTL/QSP/P-89 & CTL/SOP/AIR/024
Sample Quantity: 1 No
Equipment used for Sampling: RDS Sampler S.No:2610-DTI-2019
Analysis Started on: 24.08.2024
Analysis Completed on: 02.09.2024

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.269	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.024	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.043	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	0.014	0.05*

*Occupational Safety and Health Standards
BDL - Below Detection Limit(D.L - Detection Limit)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-28105/2024-25 & 02.09.2024
Sample Number N-28105/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Secondary Fugitive Emission Monitoring
Sampling Location FINISHING HOUSE AREA
Sample Drawn on 22.08.2024
Sample Received on 24.08.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2613-DTI-2019
Analysis Started on 24.08.2024
Analysis Completed on 02.09.2024

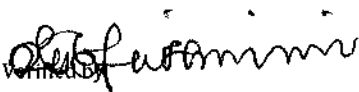
Test Results:

The above sample tested as received, and results are as follows:

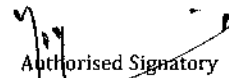
SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.072	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.012	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.020	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*

*Occupational Safety and Health Standards
BDL - Below Detection Limit(D.L - Detection Limit)

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TEST REPORT

Test Report No & Date CTL/CH/N-28106/2024-25 & 02.09.2024
Sample Number N-28106/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Secondary Fugitive Emission Monitoring
Sampling Location CHEMICAL ADDITIVE AREA
Sample Drawn on 22.08.2024
Sample Received on 24.08.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2611-DTI-2019
Analysis Started on 24.08.2024
Analysis Completed on 02.09.2024

Test Results:

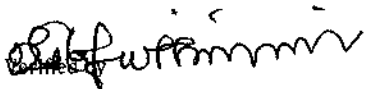
The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.338	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.028	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.044	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*

*Occupational Safety and Health Standards
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CIN : U93000TN2000PTC043869

TC - 14314

TEST REPORT

Test Report No & Date CTL/CH/N-28107/2024-25 & 02.09.2024
Sample Number N-28107/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Secondary Fugitive Emission Monitoring
Sampling Location ASH HANDLING AREA
Sample Drawn on 21.08.2024
Sample Received on 24.08.2024
Sampling Method & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2000-DTC-2016
Analysis Started on 24.08.2024
Analysis Completed on 02.09.2024

Test Results:

The above sample tested as received, and results are as follows:

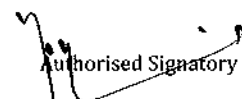
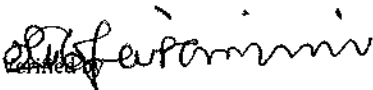
SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.541	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.022	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.038	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*

*Occupational Safety and Health Standards

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-28108/2024-25 & 02.09.2024
Sample Number N-28108/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Secondary Fugitive Emission Monitoring
Sampling Location **HARDWOOD CHIPPER SCREEN AREA**
Sample Drawn on 21.08.2024
Sample Received on 24.08.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2610-DTI-2019
Analysis Started on 24.08.2024
Analysis Completed on 02.09.2024

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	1.109	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.019	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.041	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*

*Occupational Safety and Health Standards
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END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

[Signature]
 Head - Environment Division

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TEST REPORT

Test Report No & Date: CTL/CH/N-28109/2024-25 & 02.09.2024
Sample Number: N-28109/24-25
Name of the Customer: M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address: Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 621 306, Tamil Nadu.

Sample Drawn by: Laboratory
Sample Name: Indoor Air
Sample Description: Secondary Fugitive Emission Monitoring
Sampling Location: SRP - CAUSTICIZER AREA
Sample Drawn on: 21.08.2024
Sample Received on: 24.08.2024
Sampling Plan & Procedure: CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity: 1 No
Equipment used for Sampling: RDS Sampler S.No:2613-DT1-2019
Analysis Started on: 24.08.2024
Analysis Completed on: 02.09.2024

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.156	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.015	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.030	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*

*Occupational Safety and Health Standards
BDL - Below Detection Limit(D.L - Detection Limit)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-28110/2024-25 & 02.09.2024
Sample Number N-28110/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Secondary Fugitive Emission Monitoring
Sampling Location LIME CRUSHER AREA
Sample Drawn on 21.08.2024
Sample Received on 24.08.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2611-DTI-2019
Analysis Started on 24.08.2024
Analysis Completed on 02.09.2024

Test Results:

The above sample tested as received, and results are as follows:

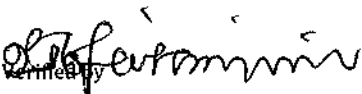
SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.657	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.038	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.050	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	0.05*

*Occupational Safety and Health Standards

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-29772/2024-25 & 03.10.2024
Sample Number N-29772/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Secondary Fugitive Emission Monitoring
Sampling Location COAL STORAGE AREA
Sample Drawn on 19.09.2024
Sample Received on 22.09.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2610-DTI-2019
Analysis Started on 23.09.2024
Analysis Completed on 03.10.2024

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4)	mg/m ³	0.319	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 (Part 2)	mg/m ³	0.031	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 (Part 6)	mg/m ³	0.053	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BLQ(LOQ:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	0.018	0.05*

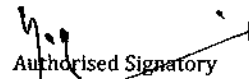
*Occupational Safety and Health Standards

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification:

END OF REPORT


Verified by

For Chennai Testing Laboratory Pvt Ltd


Authorised Signatory

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 1 of 1

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A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com www.ctllabs.in

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-29773/2024-25 & 03.10.2024
Sample Number N-29773/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Secondary Fugitive Emission Monitoring
Sampling Location FINISHING HOUSE AREA
Sample Drawn on 19.09.2024
Sample Received on 22.09.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2613-DTI-2019
Analysis Started on 23.09.2024
Analysis Completed on 03.10.2024

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4)	mg/m ³	0.079	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 (Part 2)	mg/m ³	0.015	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 (Part 6)	mg/m ³	0.027	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BLQ(LOQ:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BLQ(LOQ:0.0001)	0.05*

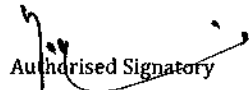
*Occupational Safety and Health Standards

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G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-29774/2024-25 & 03.10.2024
Sample Number N-29774/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Secondary Fugitive Emission Monitoring
Sampling Location CHEMICAL ADDITIVE AREA
Sample Drawn on 19.09.2024
Sample Received on 22.09.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2611-DTI-2019
Analysis Started on 23.09.2024
Analysis Completed on 03.10.2024

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4)	mg/m ³	0.241	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 (Part 2)	mg/m ³	0.025	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 (Part 6)	mg/m ³	0.041	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BLQ(LOQ:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BLQ(LOQ:0.0001)	0.05*


*Occupational Safety and Health Standards

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification:

*****END OF REPORT*****


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G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-29775/2024-25 & 03.10.2024
Sample Number N-29775/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Secondary Fugitive Emission Monitoring
Sampling Location ASH HANDLING AREA
Sample Drawn on 19.09.2024
Sample Received on 22.09.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2000-DTC-2016
Analysis Started on 23.09.2024
Analysis Completed on 03.10.2024

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4)	mg/m ³	0.609	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 (Part 2)	mg/m ³	0.042	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 (Part 6)	mg/m ³	0.057	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BLQ(LOQ:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BLQ(LOQ:0.0001)	0.05*

*Occupational Safety and Health Standards

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G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-29770/2024-25 & 03.10.2024
Sample Number N-29770/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Secondary Fugitive Emission Monitoring
Sampling Location HARDWOOD CHIPPER SCREEN AREA
Sample Drawn on 18.09.2024
Sample Received on 22.09.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2610-DTI-2019
Analysis Started on 23.09.2024
Analysis Completed on 03.10.2024

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

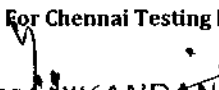
SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4)	mg/m ³	1.409	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 (Part 2)	mg/m ³	0.021	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 (Part 6)	mg/m ³	0.038	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BLQ(LOQ:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BLQ(LOQ:0.0001)	0.05*

*Occupational Safety and Health Standards

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G. ANANDKANDAN
Head - Environment Division
(CHEMICAL) Page 1 of 1

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-29771/2024-25 & 03.10.2024
Sample Number N-29771/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Indoor Air
Sample Description Secondary Fugitive Emission Monitoring
Sampling Location SRP - CAUSTICIZER AREA
Sample Drawn on 18.09.2024
Sample Received on 22.09.2024
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2613-DTI-2019
Analysis Started on 23.09.2024
Analysis Completed on 03.10.2024

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER (SPM)	IS 5182 (Part 4)	mg/m ³	0.269	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 (Part 2)	mg/m ³	0.018	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 (Part 6)	mg/m ³	0.029	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BLQ(LOQ:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BLQ(LOQ:0.0001)	0.05*

*Occupational Safety and Health Standards

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END OF REPORT



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For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory

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 (CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29776/2024-25 & 03.10.2024
Sample Number	N-29776/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Indoor Air
Sample Description	Secondary Fugitive Emission Monitoring
Sampling Location	LIME CRUSHER AREA
Sample Drawn on	19.09.2024
Sample Received on	22.09.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity	1 No
Equipment used for Sampling	RDS Sampler S.No:2611-DTI-2019
Analysis Started on	23.09.2024
Analysis Completed on	03.10.2024

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4)	mg/m ³	0.687	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 (Part 2)	mg/m ³	0.04	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 (Part 6)	mg/m ²	0.056	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BLQ(LOQ:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BLQ(LOQ:0.0001)	0.05*

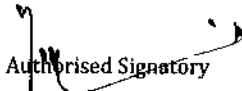
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For Chennai Testing Laboratory Pvt Ltd


Authorised Signatory

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

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Tamil Nadu Newsprint and Papers Limited



(A Government of Tamil Nadu Enterprise)

Kagitha Nagar, Mondipatti, K.Periyapatti Post, Manapparai Taluk,
Tiruchirappalli District, Tamil Nadu, India - 621 306. Phone: 04332-261600 Cell: 94890 12793
Purchase : 04332 - 265102, Mktg : 04332 - 265265, HR - 04332 - 265275



Air Quality Monitoring and Preservation

This has reference to the Environmental clearance (EC) F.NO.J-11011/172/2017-IA-II (I) dated 04.04.2019 accorded for TNPL Unit-II by MOEFCC for Proposed Mill Expansion Plan - Installation of Paper Machine, Pulp Mill, Chemical Recovery Island and Augmentation of Co-Generation Plant and Utilities by TNPL.

In compliance to Section (II) - Air Quality Monitoring and Preservation - Condition (iii) stipulated in EC is given below

II - Air Quality Monitoring and Preservation

Condition - iii

The project proponent shall install system to carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and Nox emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.

Response

Partially Complied

Out of four, Two Continuous Ambient Air Quality monitoring systems (CAAQMS) has been installed and connected to TNPCB & CPCB servers. Remaining two CAAQMS installation will be taken up after MEP Phase - 2.

Thanking you

Yours Faithfully,

For TAMIL NADU NEWSPRINT AND PAPERS LIMITED,

(D.V.S.S.A. Bhanu Prasad)

CHIEF GENERAL MANAGER (BOARD PLANT)

TNPL Corporate Office

67, Mount Road, Guindy, Chennai, TN, India - 600 032.
Phone: 044-22354415,16,18 22301094 to 97
E - mail: response@tnpl.co.in, Web: www.tnpl.com
Corporate ID No : L 22121 TN 1979 PL C 007799

TNPL Unit - I - Paper Plant

Kagithapuram - 639 136, Pugalur Taluk,
Karur Dist. Tamil Nadu, India.
Phone: (0091) 04324-277001 to 10
Cell : 94860 41341 to 41343





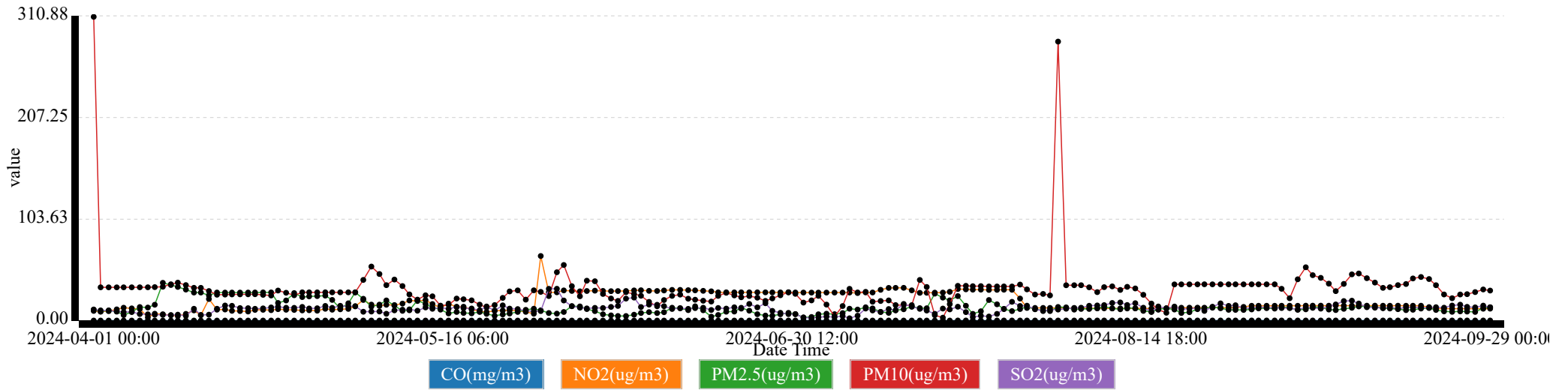
Average Report

Tamilnadu Newsprint and Papers Limited UNIT II,Trichy

Created By:- TNPL, Created At:- 2024-10-29 14:52:49

From : 2024-04-01 00:00, To: 2024-09-29 00:00

AAQMS-daily - Average Data





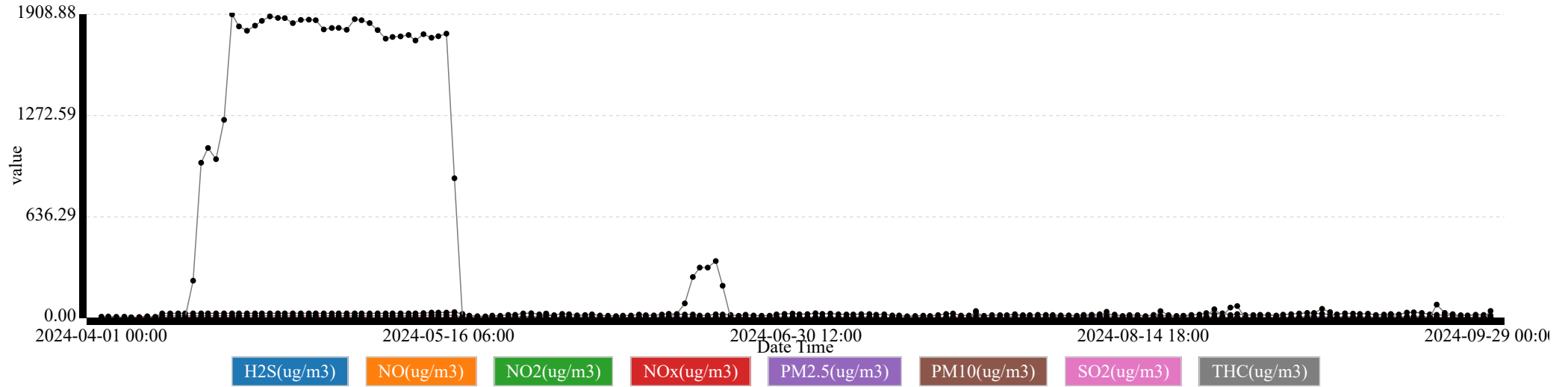
Average Report

Tamilnadu Newsprint and Papers Limited UNIT II,Trichy

Created By:- TNPL, Created At:- 2024-10-29 14:54:20

From : 2024-04-01 00:00, To: 2024-09-29 00:00

UNITII_WEST_GATE-daily - Average Data



Certificate No: CTL/CAAQMS/003

Customer Name & Address M/s Tamilnadu Newsprint and Paper Ltd,unit - II, Mondipatti village,K.periyapatti post,Manapparai Taluk,Trichy-621306	Date of Calibration	18.9.2024
	Calibration Due Date	17.9.2025

Details of Unit under Calibration

Description	SO2 Analyser	Make	OPSIS
Range	0-1000 µg/m3	Model	AR500S
Resolution	+/- 1.0	Operating Range	0-1000 µg/m3
Serial Number	NA	Condition of UUC	Good
Cylinder SI No	HSN2804	Cylinder Expiry Date	15.9.2025

Location	Top of security Gate
-----------------	-----------------------------

Environmental Condition			
Temperature (°C)	32	Pressure (mbar)	1011
Humidity (%RH)	67		

Results of Calibration

Parameter	Zero Calibration (ppm)		Span Calibration (ppm)		Error (%)
	Standard value	Measured Value	Standard value	Measured Value	
Sulphur dioxide as SO2	0	0	15	14	6.7

Signature




Customer Name & Address M/s Tamilnadu Newsprint and Paper Ltd,unit –II, Mondipattivillage,K.periyapatti post,Manapparai Taluk,Trichy-621306	Date of Calibration	18.9.2024
	Calibration Due Date	17.9.2025
	Analyser Make/Model	OP SIS/AR500S
	Range	0-1000($\mu\text{g}/\text{m}^3$)
Results of calibration		

Parameter	CEM S Value ($\mu\text{g}/\text{m}^3$)	Reference Value($\mu\text{g}/\text{m}^3$)	Relative Accuracy(%) Acceptance criteria($\leq 10\%$)	Bias (%) Acceptance criteria($\leq 4\%$)	Bias Adjustmentfactor
Sulphur dioxide(SO ₂) ($\mu\text{g}/\text{m}^3$)	13.6	15.6	0.54	0.24	1.302
	10.8	16.7			
	13.1	18.2			
	13.7	13.4			
	12.1	15.2			
	11.8	17.1			
	14.3	18.1			
	14.6	19.6			
	12.0	17.2			

Since Bias and Relative accuracy is within acceptance criteria and analyser performance on this particulate is working well. Presently all the values are transmitting to SPCB / CPCB as raw value and needs to be converted into CPCB.

Signature



Certificate No: CTL/CAAQMS/004

Customer Name & Address M/s Tamilnadu Newsprint and Paper Ltd,unit -II, Mondipatti village,K.periyapatti post,Manapparai Taluk,Trichy-621306	Date of Calibration	18.9.2024
	Calibration Due Date	17.9.2025

Details of Unit under Calibration

Description	NO2 Analyser	Make	OP SIS
Range	0-1000 µg/m3	Model	AR500S
Resolution	+/- 1.0	Operating Range	0-1000 µg/m3
Serial Number	NA	Condition of UUC	Good
Cylinder Sl No	HSN2804	Cylinder Expiry Date	15.9.2025

Location	Top of Security Gate
-----------------	----------------------

Environmental Condition			
-------------------------	--	--	--

Temperature (°C)	32	Pressure (mbar)	1011
Humidity (%RH)	67		

Results of Calibration

Parameter	Zero Calibration (ppm)		Span Calibration (ppm)		Error (%)
	Standard value	Measured Value	Standard value	Measured Value	
Nitrogen dioxide as NO2	0	0	10	10.4	- 4.0

Signature




Customer Name & Address M/s Tamilnadu Newsprint and Paper Ltd,unit -II, Mondipatti village,K.periyapatti post,Manapparai Taluk,Trichy-621306	Date of Calibration	18.9.2024
	Calibration Due Date	17.9.2025
	Analyser Make/model	OP SIS/AR500S
	Range	0-1000($\mu\text{g}/\text{m}^3$)
Results of Calibration		

Certificate No: CTL/CAAQMS/004

Parameter	CEMS Value($\mu\text{g}/\text{m}^3$)	Reference Value($\mu\text{g}/\text{m}^3$)	Relative Accuracy(%) Acceptance criteria($\leq 10\%$)	Bias (%) Acceptance criteria($\leq 4\%$)	Bias Adjustment factor
Nitrogen Dioxide(NO ₂)	16.3	17.8	0.47	0.18	1.21
	15.2	19.9			
	15.7	20.1			
	16.8	21.2			
	15.6	22.3			
	16.0	18.9			
	15.3	17.6			
	15.1	16.0			
	15.7	17.0			

Since Bias and Relative accuracy is within acceptance criteria and analyser performance on this particulate is working well. Presently all the values are transmitting to SPCB / CPCB as raw value and needs to be converted into CPCB.

Signature



Certificate No: CTL/CAAQMS/005

Page No:1 of 1

Customer Name & Address M/s Tamilnadu Newsprint and Paper Ltd,unit -II, Mondipatti village,K.periyapatti post,Manapparai Taluk,Trichy-621306	Date of Calibration 18.9.2024
	Calibration Due Date 17.9.2025

Details of Unit under Calibration

Description	CO Analyser	Make	OP SIS
Range	0-62.5mg/m ³	Model	AROPS30
Resolution	+/- 1.0	Operating Range	0-62.5mg/m ³
Serial Number	NA	Condition of UUC	Good
Cylinder SI No	HSN2804	Cylinder Expiry Date	15.9.2025

Location	Top of Security Gate
-----------------	----------------------

Environmental Condition			
Temperature (°C)	32	Pressure (mbar)	1011
Humidity (%RH)	67		

Results of Calibration

Parameter	Zero Calibration (ppm)		Span Calibration (ppm)		Error (%)
	Standard value	Measured Value	Standard value	Measured Value	
Carbon monoxide as CO	0	0	10	10.5	5.0

Signature




Customer Name & Address M/s Tamilnadu Newsprint and Paper Ltd,unit -II, Mondipatti village,K.periyapatti post,Manapparai Taluk,Trichy-621306	Date of Calibration	18.9.2024
	Calibration Due Date	17.9.2025
	Analyser Make/model	OP SIS/OPS30
	Range	0-62.5(mg/m3)
Results of Calibration		

Certificate No: CTL/CAAQMS/005

Parameter	CEMS Value($\mu\text{g}/\text{m}^3$)	Reference Value($\mu\text{g}/\text{m}^3$)	Relative Accuracy(%)	Bias (%)	Bias Adjustment factor
			Acceptance criteria($\leq 10\%$)	Acceptance criteria($\leq 4\%$)	
Carbon monoxide analyser(CO) (mg/m3)	0.40	0.23	- 0.04	-0.18	0.75
	0.35	0.29			
	0.41	0.33			
	0.44	0.38			
	0.42	0.42			
	0.43	0.30			
	0.39	0.39			
	0.40	0.33			
	0.37	0.28			

since Bias and Relative accuracy is within acceptance criteria and analyser performance on this particulate is working well. Presently all the values are transmitting to SPCB / CPCB as raw value and needs to be converted into CPCB.

Signature




Certificate No: CTL/CAAQMS/001

Customer Name & Address M/s Tamilnadu Newsprint and Paper Ltd,unit -II, Mondipatti village,K.periyapatti post,Manapparai Taluk,Trichy-621306	Date of Calibration	18.9.2024
	Calibration Due Date	17.9.2025

Details of Unit under Calibration

Description	PM10 Analyser	Make	OP SIS
Range	0-1000µg/m3	Model	SM200
Resolution	+/- 1.0	Operating Range	0-1000 µg/m3
Serial Number	NA	Condition of UUC	Good
Cylinder SI No	NA	Cylinder Expiry Date	NA

Location	Top of Security Gate
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Environmental Condition

Temperature (°C)	32	Pressure (mbar)	1011
Humidity (%RH)	67		

Signature




Certificate No: CTL/CAAQMS/001

Customer Name & Address M/s Tamilnadu Newsprint and Paper Ltd,unit –II, Mondipatti village,K.periyapatti post,Manapparai Taluk,Trichy-621306	Date of Calibration	18.9.2024
	Calibration Due Date	17.9.2025
	Analyser Make/Model	OP SIS/SM200
	Range	0-1000 µg/m3
Results of Calibration		

Parameter	CEMS Value(µg/m3)	Reference Value(µg/m3)	Relative Accuracy(%) Acceptance criteria(≤10%)	Bias (%) Acceptance criteria(≤4%)	Bias Adjustment factor
Particulate matter(PM10) (µg/m3)	46.3	41.2	0.05	-0.28	0.975
	46.7	43.4			
	46.4	47.8			
	46.0	45.6			
	46.6	44.5			
	46.7	46.7			
	46.2	45.8			
	46.3	44.5			
	46.4	47.6			

Since Bias and Relative accuracy is within acceptance criteria and analyser performance on this particulate is working well. Presently all the values are transmitting to SPCB / CPCB as raw value and needs to be converted into CPCB.

Signature



Certificate No: CTL/CAAQMS/002

Customer Name & Address M/s Tamilnadu Newsprint and Paper Ltd,unit -II, Mondipatti village,K.periyapatti post,Manapparai Taluk,Trichy-621306	Date of Calibration	18.9.2024
	Calibration Due Date	17.9.2025

Details of Unit under Calibration

Description	PM2.5 Analyser	Make	OPSIS
Range	0-1000 µg/m ³	Model	SM200
Resolution	+/- 1.0	Operating Range	0-1000 µg/m ³
Serial Number	NA	Condition of UUC	Good
Cylinder SI No	NA	Cylinder Expiry Date	NA

Location	Top of Security Gate
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Environmental Condition

Temperature (°C)	32	Pressure (mbar)	1011
Humidity (%RH)	67		

Signature




Customer Name & Address M/s Tamilnadu Newsprint and Paper Ltd,unit –II, Mondipattivillage,K.periyapatti post,Manapparai Taluk,Trichy-621306	Date of Calibration	18.9.2024
	Calibration Due Date	17.9.2025
	Analyser make/model	OPIS/SM200
	Range	0-1000 (µg/m3)
Results of Calibration		

Parameter	CEMS Value(µg/m3)	Reference Value(µg/m3)	Relative Accuracy(%) Acceptance criteria(≤10%)	Bias (%) Acceptance criteria(≤4%)	Bias Adjustmentfactor
Particulate matter(PM2.5) (µg/m3)	11.8	13.4	0.43	0.19	1.268
	11.7	13.9			
	11.3	14.6			
	10.9	15.2			
	11.5	16.3			
	11.7	17.1			
	11.3	14.5			
	11.4	13.8			
	11.8	12.3			

Since Bias and Relative accuracy is within acceptance criteria and analyser performance on this particulate is working well. Presently all the values are transmitting to SPCB / CPCB as raw value and needs to be converted into CPCB.

Signature




Tamilnadu Newsprint and Papers Limited UNIT II

Online AAQ Monitoring (Main Gate) - April'2024

Date	AAQMS-CO (mg/Nm ³)	AAQMS-NO ₂ (µg/m ³)	AAQMS-PM _{2.5} (µg/m ³)	AAQMS-PM ₁₀ (µg/m ³)	AAQMS-SDZ (µg/m ³)
01-04-2024	0.35	10.19	11.62	309.88	11.27
02-04-2024	0.35	9.38	9.57	34.21	10.7
03-04-2024	0.35	9.93	10.63	34.2	10.57
04-04-2024	0.35	11.74	9.45	34.18	9.7
05-04-2024	0.35	13.42	5.92	34.21	8.93
06-04-2024	0.34	12.76	9.07	34.22	9.22
07-04-2024	0.35	12.18	14.11	34.23	7
08-04-2024	0.35	3.54	13.61	34.26	6.74
09-04-2024	0.34	7.31	16.46	34.41	6.23
10-04-2024	0.34	6.78	38.79	34.81	6.11
11-04-2024	0.34	5.82	36.57	37.32	5.83
12-04-2024	0.34	4.95	34.62	38.99	6.36
13-04-2024	0.34	7.15	31.92	36.49	5.14
14-04-2024	0.34	10.67	28.88	33.72	12.35
15-04-2024	0.34	5.8	28.89	33.68	6.04
16-04-2024	0.34	22.31	26.02	30.43	6.35
17-04-2024	0.34	11.43	28.92	26.66	12.36
18-04-2024	0.34	11.6	28.86	26.81	15.68
19-04-2024	0.34	10.26	28.87	26.97	15.38
20-04-2024	0.34	10.01	28.86	27.04	13.07
21-04-2024	0.34	9.55	28.89	27.1	12.97
22-04-2024	0.35	11.2	28.95	27.17	12.32
23-04-2024	0.35	11.3	29.03	26.54	12.76
24-04-2024	0.35	10.93	29.03	25.86	13.73
25-04-2024	0.34	11.95	18.29	30.93	14.37
26-04-2024	0.35	11.34	20.8	28.67	13.4
27-04-2024	0.34	11.18	28.35	26.12	13.3
28-04-2024	0.34	10.66	24.27	29.1	14.26
29-04-2024	0.34	10.84	24.96	29.1	12.66
30-04-2024	0.34	10.39	25.26	29.07	12.88
Max	0.4	22.3	38.8	309.9	15.7
Min	0.3	3.5	5.9	25.9	5.1
Avg	0.3	10.2	23.3	40.5	10.6

* On 01.04.2024 PM10 Analyser Maintenance

GENERAL MANAGER
R&D AND QC
TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K.PERIYAPATTI (PO),
MANAPPARAI (TK), TRICHY (DT)-621306.

Tamilnadu Newsprint and Papers Limited UNIT II

Online AAQ Monitoring (Main Gate) - May'2024

Date	AAQMS-CO (mg/Mm ³)	AAQMS-NO2 (µg/m ³)	AAQMS-PM2.5 (µg/m ³)	AAQMS-PM10 (µg/m ³)	AAQMS-SO2 (µg/m ³)
01-05-2024	0.34	12.35	25.74	29.12	15.26
02-05-2024	0.34	11.39	21.38	29.09	13.27
03-05-2024	0.34	11.8	12.47	29.09	15.39
04-05-2024	0.34	12.23	17.94	29.09	14.63
05-05-2024	0.35	14.8	29.01	29.13	14.99
06-05-2024	0.35	21.33	22.53	41.76	9.31
07-05-2024	0.35	16.6	14.55	55.37	9.53
08-05-2024	0.35	15.2	16.59	47.78	9.57
09-05-2024	0.35	16.44	20.84	36.42	7.28
10-05-2024	0.35	16.13	15.59	42.13	10.71
11-05-2024	0.34	17.64	10.24	35.49	11.4
12-05-2024	0.34	20.82	10.8	26.99	11.75
13-05-2024	0.34	20.27	20.95	21.68	10.37
14-05-2024	0.34	21.19	17.21	26.09	13.69
15-05-2024	0.34	17.19	13.83	25.05	12.33
16-05-2024	0.34	13.45	11.46	15.56	13.61
17-05-2024	0.34	17.61	7.6	16.4	12.24
18-05-2024	0.34	14.25	9.11	22.75	14.29
19-05-2024	0.34	14.44	8.09	22.06	12.95
20-05-2024	0.34	11.74	7.69	20.94	12.64
21-05-2024	0.34	9.63	9.08	16.57	10.82
22-05-2024	0.34	9.03	7.2	13.61	14.69
23-05-2024	0.34	10.24	5.21	16.13	10.55
24-05-2024	0.34	10.57	6.56	23.44	15.82
25-05-2024	0.34	10.75	7.49	30.03	12.51
26-05-2024	0.34	10.49	9.12	31.11	12.05
27-05-2024	0.34	9.21	11.28	21.66	10.33
28-05-2024	0.34	7.33	12.4	31.16	9.64
29-05-2024	0.34	66.13	10.78	29.53	10
30-05-2024	0.34	29.11	8.02	25.29	32.69
31-05-2024	0.34	29.11	7.4	49.59	32.74
Max	0.4	66.1	29.0	55.4	32.7
Min	0.3	7.3	5.2	13.6	7.3
Avg	0.3	16.7	13.2	28.7	13.5

GENERAL MANAGER
R&D AND QC
TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K.PERIYAPATTI (PO),
MANAPPARAI (TK), TRICHY (DT)-621306

Tamilnadu Newsprint and Papers Limited UNIT II

Online AAQ Monitoring - June'2024 (Main Gate)

Date	AAQMS-CO (mg/Nm ³)	AAQMS-NO ₂ (µg/m ³)	AAQMS-PM _{2.5} (µg/m ³)	AAQMS-PM ₁₀ (µg/m ³)	AAQMS-SO ₂ (µg/m ³)
01-06-2024	0.34	31.06	9.08	56.97	20.78
02-06-2024	0.34	30.52	15.03	35.39	14.95
03-06-2024	0.34	30.12	14.74	25.09	13.46
04-06-2024	0.34	30.46	12.05	40.96	12.74
05-06-2024	0.34	30.6	9.95	40.42	13.27
06-06-2024	0.34	30.56	6.72	27.46	13.12
07-06-2024	0.33	30.28	5.63	22.81	14.25
08-06-2024	0.34	30.4	5.01	20.36	15.24
09-06-2024	0.34	30.46	4.97	29.28	22.71
10-06-2024	0.34	31.06	6.31	27.36	23.75
11-06-2024	0.34	31.23	8.03	25.59	14.13
12-06-2024	0.34	30.62	8.94	19.38	16.59
13-06-2024	0.34	30.48	7.99	14.9	16.43
14-06-2024	0.34	31	8.84	21.27	14.97
15-06-2024	0.34	31.6	13.43	25.49	12.14
16-06-2024	0.34	31.6	12.84	26.78	12.98
17-06-2024	0.35	31.32	10.96	22.61	12.28
18-06-2024	0.34	31.12	14.88	21.58	13.02
19-06-2024	0.34	30.64	10.82	20.54	13.42
20-06-2024	0.34	30.13	4.32	19.71	11.13
21-06-2024	0.34	29.08	6.02	25.47	13.15
22-06-2024	0.34	29.09	9.36	23.66	12.53
23-06-2024	0.34	29.05	9.52	25.95	13.86
24-06-2024	0.34	29.09	13.36	24.07	12.51
25-06-2024	0.34	29.1	10.4	25.34	17.29
26-06-2024	0.34	29.1	6.84	23.64	13.78
27-06-2024	0.34	29.07	5.43	20.39	17.97
28-06-2024	0.36	29.01	5.22	22.92	10.19
29-06-2024	0.37	29.02	6.75	26.09	8.25
30-06-2024	0.36	29.04	8.21	29.23	6.9
Max	0.4	31.6	15.0	57.0	23.8
Min	0.3	29.0	4.3	14.9	6.9
Avg	0.3	30.2	9.1	26.5	14.3

GENERAL MANAGER
R&D AND QC
TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K.PERIYAPATTI (PO),
MANAPPARAI (TK.), TRICHY (DT)-621306.

Tamilnadu Newsprint and Papers Limited UNIT II**Online AAQ Monitoring (Main Gate) - July'2024**

Date	AAQMS-CO (mg/Nm ³)	AAQMS-NO2 (µg/m ³)	AAQMS-PM2.5 (µg/m ³)	AAQMS-PM10 (µg/m ³)	AAQMS-SO2 (µg/m ³)
01-07-2024	0.37	28.94	6.98	27.59	6.8
02-07-2024	0.38	28.88	3.53	18.64	3.4
03-07-2024	0.38	28.83	3.99	20.88	2.91
04-07-2024	0.38	28.86	6.75	25.5	3.72
05-07-2024	0.38	28.85	7.32	16.6	4.39
06-07-2024	0.38	28.86	6.86	4.58	3.8
07-07-2024	0.38	28.87	7.95	15.13	4.99
08-07-2024	0.38	28.87	12.4	32.67	2.67
09-07-2024	0.37	28.37	11.56	29	5.27
10-07-2024	0.35	28.99	13.87	29.62	12.58
11-07-2024	0.35	28.95	12.74	19.54	10.61
12-07-2024	0.36	31.58	9.22	20.28	9.01
13-07-2024	0.37	33.62	8.16	20.88	12.09
14-07-2024	0.35	33.66	10.74	16.12	10.86
15-07-2024	0.35	33.7	11.85	16.08	17.29
16-07-2024	0.35	31.14	14.55	16.05	14.47
17-07-2024	0.35	28.59	13.01	41.73	12.27
18-07-2024	0.35	28.67	12.9	34.55	10.52
19-07-2024	0.35	28.79	27.77	5.8	7.18
20-07-2024	0.35	28.85	23.72	3.29	12.58
21-07-2024	0.36	29.63	20.92	17.07	11.71
22-07-2024	0.41	32.47	25.26	35.73	14.44
23-07-2024	0.42	32.14	15.41	35.75	8.92
24-07-2024	0.41	31.82	7.16	35.36	3.86
25-07-2024	0.41	31.86	9.83	35.44	5.19
26-07-2024	0.41	31.55	21.28	35.1	4.46
27-07-2024	0.41	31.64	16.9	35.08	7.14
28-07-2024	0.39	31.79	12.04	35.11	12.27
29-07-2024	0.39	31.73	9.97	35.06	19.44
30-07-2024	0.39	22.78	12.06	37.02	15.2
31-07-2024	0.38	13.18	14.48	32.11	15.5
Max	0.4	33.7	27.8	41.7	19.4
Min	0.4	13.2	3.5	3.3	2.7
Avg	0.4	29.6	12.6	25.3	9.2

GENERAL MANAGER
R&D AND QC
TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K. PERIYAPATTI (PO),
MANAPPARAI (TK.), TRICHY (DT)-621108.

Tamilnadu Newsprint and Papers Limited UNIT II

Online AAQ Monitoring (Main Gate) - August'2024

Date	AAQMS-CO (mg/Nm ³)	AAQMS-NO ₂ (µg/m ³)	AAQMS-PM _{2.5} (µg/m ³)	AAQMS-PM ₁₀ (µg/m ³)	AAQMS-SO ₂ (µg/m ³)
01-08-2024	0.36	13.22	11.83	26.86	12.03
02-08-2024	0.38	13.23	10.76	27.48	10.02
03-08-2024	0.39	13.22	10.01	25.97	11.35
04-08-2024	0.38	13.28	14.19	284.64	11.55
05-08-2024	0.38	13.06	13.78	36.32	12.39
06-08-2024	0.38	13.13	11.48	36.34	13.13
07-08-2024	0.38	13.02	12.18	36.36	13.42
08-08-2024	0.39	12.96	12.17	34.23	15.42
09-08-2024	0.4	12.84	12.84	29.31	15.75
10-08-2024	0.4	12.78	14.59	34.39	16.09
11-08-2024	0.4	12.68	12.75	35.18	18.27
12-08-2024	0.4	12.74	11.84	31.57	18.81
13-08-2024	0.4	12.66	13.4	34.71	16.19
14-08-2024	0.39	12.74	12.85	33.07	18.05
15-08-2024	0.4	12.74	10.21	26.59	13.43
16-08-2024	0.49	12.63	9.12	17.64	9.29
17-08-2024	0.41	12.67	11.84	11.39	14.69
18-08-2024	0.4	12.79	12.79	8.28	12.79
19-08-2024	0.41	13.36	11.58	37.2	14.59
20-08-2024	0.41	13.42	8.05	37.24	11.76
21-08-2024	0.4	13.47	8.87	37.26	12.47
22-08-2024	0.41	13.45	11.92	37.25	13.15
23-08-2024	0.41	13.44	12.98	37.31	10.16
24-08-2024	0.4	13.42	14.14	37.27	14.39
25-08-2024	0.41	13.49	12.88	37.29	17.86
26-08-2024	0.4	13.42	11.27	37.27	15.3
27-08-2024	0.41	13.47	11.2	37.29	15.97
28-08-2024	0.4	14.25	11.17	37.26	12.99
29-08-2024	0.41	15.4	11.68	37.29	12.82
30-08-2024	0.41	15.42	12.7	37.26	14.28
31-08-2024	0.41	15.42	12.97	37.28	13.63
Max	0.5	15.4	14.6	284.6	18.8
Min	0.4	12.6	8.1	8.3	9.3
Avg	0.4	13.3	11.9	40.5	13.9

* On 04.08.2024 PM10 Analyser Maintenance

GENERAL MANAGER
R&D AND QC
TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K.PERIYAPATTI (PO),
MANAPPARAI (TK), TRICHY (DT)-621308.

Tamilnadu Newsprint and Papers Limited UNIT II**Online AAQ Monitoring (Main Gate) - September'2024**

Date	AAQMS-CO (mg/Nm ³)	AAQMS-NO2 (µg/m ³)	AAQMS-PM2.5 (µg/m ³)	AAQMS-PM10 (µg/m ³)	AAQMS-SO2 (µg/m ³)
01-09-2024	0.41	15.41	12.53	37.28	13.37
02-09-2024	0.41	15.44	14.26	32.71	13.08
03-09-2024	0.4	15.46	13.29	23.09	13.05
04-09-2024	0.41	15.4	11.3	42.4	11.56
05-09-2024	0.4	15.52	11.77	54.65	13.61
06-09-2024	0.4	15.53	14.19	46.59	13.29
07-09-2024	0.41	15.54	13.9	43.85	12.49
08-09-2024	0.41	15.49	11.57	37.96	14.63
09-09-2024	0.41	15.61	11.02	30.32	16.78
10-09-2024	0.41	15.45	12.3	37.7	20.21
11-09-2024	0.41	15.52	13.33	47.42	20.6
12-09-2024	0.4	15.42	14.71	48.32	17.71
13-09-2024	0.41	15.51	14.77	43.51	13.92
14-09-2024	0.41	15.55	14.25	39.05	13.43
15-09-2024	0.4	15.47	12.92	33.67	13.17
16-09-2024	0.4	15.44	12.62	34.34	13.98
17-09-2024	0.4	15.5	11.93	36.44	12.54
18-09-2024	0.4	15.44	10.96	37.59	13.66
19-09-2024	0.4	15.47	11.34	43.26	13.78
20-09-2024	0.4	15.47	12.57	44.74	13.66
21-09-2024	0.41	14.05	13.13	42.66	13.39
22-09-2024	0.4	12.45	11.14	36.37	13.95
23-09-2024	0.41	12.47	9.72	26.93	13.46
24-09-2024	0.41	12.45	9.23	23.11	15.64
25-09-2024	0.41	12.42	9.71	26.91	16.54
26-09-2024	0.41	12.4	9.5	27.23	14.32
27-09-2024	0.41	12.44	9.12	29.35	13.79
28-09-2024	0.42	12.39	13.09	32.03	15.57
29-09-2024	0.4	12.46	13.81	30.9	13.91
30-09-2024	0.41	12.38	9.21	25.46	15.56
Max	0.4	15.6	14.8	54.7	20.6
Min	0.4	12.4	9.1	23.1	11.6
Avg	0.4	14.5	12.1	36.5	14.5

GENERAL MANAGER
R&D AND QC
TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K.PERIYAPATTI (PO),
MANAPPARAI (TK.), TRICHY (DT)-621306.

Tamilnadu Newsprint and Papers Limited UNIT II**Online AAQ Monitoring (West Gate) - April'2024**

Date	UNITII_WEST_GATE-NOx(ug/m3)	UNITII_WEST_GATE-PM2.5(ug/m3)	UNITII_WEST_GATE-PM10(ug/m3)	UNITII_WEST_GATE-SO2(ug/m3)
01-04-2024	4.47	3.01	8.51	1.64
02-04-2024	4.16	1.26	4.14	1.59
03-04-2024	3.36	0.14	0.77	1.55
04-04-2024	3.94	2.83	9.51	1.55
05-04-2024	4.37	1.7	5.01	1.55
06-04-2024	7.25	0.26	1.74	1.68
07-04-2024	11.89	0	0	1.78
08-04-2024	6.06	4.51	8.6	1.8
09-04-2024	3.76	15	30	1.58
10-04-2024	5.41	15	30	1.67
11-04-2024	4.43	15	30	1.62
12-04-2024	5.06	15	30	1.7
13-04-2024	6.39	15.21	30.23	1.8
14-04-2024	3.8	15.09	30.18	1.63
15-04-2024	2.1	15.08	30.07	1.39
16-04-2024	2.17	15.06	30.12	1.35
17-04-2024	4.36	15.08	30.15	1.34
18-04-2024	2.41	15.07	30.14	1.57
19-04-2024	3.08	15.07	30.15	1.65
20-04-2024	1.26	15.08	30.17	1.53
21-04-2024	1.34	15.07	30.14	1.53
22-04-2024	2.11	15.07	30.15	1.57
23-04-2024	1.62	15.06	30.12	1.58
24-04-2024	2.8	15.08	30.15	1.51
25-04-2024	3.33	15.1	30.2	1.5
26-04-2024	3.81	15.1	30.19	1.49
27-04-2024	5.2	15.08	30.16	1.61
28-04-2024	3.67	15.06	30.11	1.52
29-04-2024	4.75	15.06	30.11	1.68
30-04-2024	3.34	15.05	30.09	1.67
Max	11.9	15.2	30.2	1.8
Min	1.3	0.0	0.0	1.3
Avg	4.1	11.5	23.4	1.6

GENERAL MANAGER
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TAMILNADU NEWSPRINT AND PAPERS LIMITED
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MONDIPATTI, K.PERIYAPATTI (PO),
MANAPPARAI (TK.), TRICHY (DT)-621308.

Tamilnadu Newsprint and Papers Limited UNIT II**Online AAQ Monitoring (West Gate) - May'2024**

Date	UNITII_WEST_GATE-NOx(ug/m3)	UNITII_WEST_GATE-PM2.5(ug/m3)	UNITII_WEST_GATE-PM10(ug/m3)	UNITII_WEST_GATE-SO2(ug/m3)
01-05-2024	3.12	15.06	30.12	1.67
02-05-2024	3.69	15.07	30.13	1.67
03-05-2024	2.04	15.09	30.19	1.58
04-05-2024	2.43	15.07	30.14	1.72
05-05-2024	3.8	15.08	30.15	1.81
06-05-2024	1.71	15.11	29.86	1.71
07-05-2024	0.82	15.07	30.14	1.51
08-05-2024	1.67	15.07	30.14	1.65
09-05-2024	0.73	15.06	30.12	1.48
10-05-2024	2.65	15.06	30.12	1.52
11-05-2024	4.45	15.06	30.12	1.57
12-05-2024	6.42	15.06	30.12	1.63
13-05-2024	3.23	16.69	31.73	1.48
14-05-2024	5.97	20.08	35.14	1.62
15-05-2024	5.47	20.09	35.17	1.62
16-05-2024	3.34	20.05	35.12	1.66
17-05-2024	3.85	16.25	37.96	1.53
18-05-2024	1.51	8.26	26.94	1.67
19-05-2024	1.36	6.36	15.92	1.65
20-05-2024	1.1	5.55	12.64	1.63
21-05-2024	0.4	4.83	11.3	1.67
22-05-2024	0.76	9.12	16.2	1.61
23-05-2024	1.49	5.25	15.15	1.62
24-05-2024	2.74	5.49	20.48	1.56
25-05-2024	0.16	8.4	21.13	1.43
26-05-2024	0	10.85	29.59	1.54
27-05-2024	0	11.71	31.09	1.62
28-05-2024	0	8.35	23.87	1.72
29-05-2024	28.72	6.26	16.86	1.82
30-05-2024	8.21	6.13	18.93	1.95
31-05-2024	0.9	9.07	26.87	1.63
Max	28.7	20.1	38.0	2.0
Min	0.0	4.8	11.3	1.4
Avg	3.3	12.2	26.6	1.6

GENERAL MANAGER
R&D AND QC

TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIRATTI, K.PERTYAPATTI (PO),
MANAPPARAI (TK.), TRICHY (DT)-621308.

Tamilnadu Newsprint and Papers Limited UNIT II**Online AAQ Monitoring (West Gate) - June'2024**

Date	UNITII_WEST_GATE-NO _x (ug/m ³)	UNITII_WEST_GATE-PM2.5(ug/m ³)	UNITII_WEST_GATE-PM10(ug/m ³)	UNITII_WEST_GATE-SO ₂ (ug/m ³)
01-06-2024	1.37	9.01	24.74	1.64
02-06-2024	1.26	6.51	17.87	1.69
03-06-2024	1.83	7.78	19.76	1.6
04-06-2024	3.14	8.2	24.12	1.66
05-06-2024	3.37	5.64	16.88	1.7
06-06-2024	2.53	5.24	15.35	1.7
07-06-2024	1.99	3.82	12.88	1.79
08-06-2024	2.61	4.59	15.87	1.71
09-06-2024	3	5.18	16.64	1.78
10-06-2024	1.53	7.34	22.77	1.68
11-06-2024	1.03	5.78	18.71	1.63
12-06-2024	1.23	5.66	17.62	1.65
13-06-2024	1.32	7.71	22.97	1.6
14-06-2024	1.01	8.52	27.43	1.62
15-06-2024	1.84	7.89	23.71	1.68
16-06-2024	0.72	6.89	22.91	1.69
17-06-2024	1.68	6.99	23.14	1.65
18-06-2024	2.78	5.36	16.47	1.81
19-06-2024	4.55	5.64	17.11	1.78
20-06-2024	4.2	6.75	24.31	1.52
21-06-2024	0.43	7.15	22.99	1.58
22-06-2024	1.15	5.81	20.25	1.64
23-06-2024	1.35	4.62	15.05	1.58
24-06-2024	1.31	5.8	21.62	1.55
25-06-2024	1.01	5.02	16.98	1.58
26-06-2024	1.02	3.98	15.4	1.56
27-06-2024	1.32	4.49	15.44	1.41
28-06-2024	1.52	6.77	23.96	1.61
29-06-2024	1.74	7.26	26.75	1.67
30-06-2024	3.86	7.06	29.14	1.59
Max	4.6	9.0	29.1	1.8
Min	0.4	3.8	12.9	1.4
Avg	1.9	6.3	20.3	1.6

GENERAL MANAGER
R&D AND QC

TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K.PERTYAPATTI (PO),
MANAPPARAI (TK.), TRICHY (DT)-621308.

Tamilnadu Newsprint and Papers Limited UNIT II

Online AAQ Monitoring (West Gate) - July'2024

Date	UNITII_WEST_GATE-NOx(ug/m3)	UNITII_WEST_GATE-PM2.5(ug/m3)	UNITII_WEST_GATE-PM10(ug/m3)	UNITII_WEST_GATE-SO2(ug/m3)
01-07-2024	2.49	6.57	24.45	1.65
02-07-2024	1.56	5.7	25.58	1.74
03-07-2024	4.58	6.48	31.1	1.74
04-07-2024	1.82	6.59	26.88	1.69
05-07-2024	1.99	6.25	28.99	1.61
06-07-2024	1	5.45	24.64	1.6
07-07-2024	1.45	6.4	23.31	1.58
08-07-2024	0.85	6.37	23.24	1.44
09-07-2024	0.96	7.64	25.51	2.04
10-07-2024	1.22	8.02	25.77	3.51
11-07-2024	0.99	6.89	21.61	2.87
12-07-2024	1.7	6.56	24.18	3.57
13-07-2024	0.44	5.12	17.16	2.96
14-07-2024	0.02	4.75	16.99	2.58
15-07-2024	0.06	3.75	12.04	2.44
16-07-2024	0.09	4.05	13.7	2.43
17-07-2024	0.07	4.66	15.92	3.06
18-07-2024	0.11	3.89	13.85	3.11
19-07-2024	0.02	5.57	19.43	4
20-07-2024	0.01	7.11	26.48	5.28
21-07-2024	0.02	7.74	29.35	7.07
22-07-2024	0.04	5.07	16.38	6.32
23-07-2024	0.9	4.74	16.93	7.07
24-07-2024	8.29	5.08	18.76	17.74
25-07-2024	0.71	4.31	14.92	3.07
26-07-2024	0.85	5.86	19.68	3.1
27-07-2024	0.97	5.77	19.29	3.14
28-07-2024	0.71	4.93	18.93	3.11
29-07-2024	0.9	7.74	24.85	3.14
30-07-2024	0.82	6.66	18.99	3.04
31-07-2024	0.68	6.63	19.47	2.94
Max	8.3	8.0	31.1	17.7
Min	0.0	3.8	12.0	1.4
Avg	1.2	5.9	21.2	3.6

GENERAL MANAGER
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TAMILNADU NEWSPRINT AND PAPERS LIMITED
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MONDIPATTI, K.PERIYAPATTI (PO),
MANAPPARAI (TK), TRICHY (DT)-621308.

Tamilnadu Newsprint and Papers Limited UNIT II

Online AAQ Monitoring (West Gate) - August'2024

Date	UNITII_WEST_GATE-NOx(ug/m3)	UNITII_WEST_GATE-PM2.5(ug/m3)	UNITII_WEST_GATE-PM10(ug/m3)	UNITII_WEST_GATE-SO2(ug/m3)
01-08-2024	0.7	7.7	21.17	2.86
02-08-2024	0.71	6.35	20.47	2.86
03-08-2024	0.7	5.56	19.96	2.78
04-08-2024	0.69	5.53	17.56	2.81
05-08-2024	1.41	6.72	17.64	2.94
06-08-2024	1.55	5.62	15.48	2.99
07-08-2024	1.84	8.75	20.55	3.04
08-08-2024	1.36	7.58	21.33	2.94
09-08-2024	1.33	9.48	25.09	2.85
10-08-2024	1.53	8.57	20.19	2.83
11-08-2024	2.01	8.93	22.5	3.05
12-08-2024	1.28	5.28	13.94	2.92
13-08-2024	2.01	7.94	19.65	2.94
14-08-2024	3.57	7.26	19.41	3.05
15-08-2024	2.61	4.59	13.04	3.03
16-08-2024	2.94	7.43	20.56	2.99
17-08-2024	2.6	5.52	16.23	3.04
18-08-2024	3.09	3.98	12.9	2.97
19-08-2024	3.61	4.76	13.65	3.03
20-08-2024	4.08	4.44	15.07	2.99
21-08-2024	4.07	5.62	20.29	2.97
22-08-2024	2.86	6.08	22.6	2.87
23-08-2024	4.72	8.45	32.08	2.95
24-08-2024	4.71	7.52	24.74	2.98
25-08-2024	3.32	7.37	30.64	2.84
26-08-2024	1.86	5.85	19.91	2.81
27-08-2024	2.35	6.22	25.98	2.86
28-08-2024	2.08	5.71	19.71	2.95
29-08-2024	1.5	5.16	19.82	2.91
30-08-2024	2.28	5.4	21.3	2.92
31-08-2024	1.4	4.98	18.42	2.88
Max	4.7	9.5	32.1	3.1
Min	0.7	4.0	12.9	2.8
Avg	2.3	6.5	20.1	2.9

GENERAL MANAGER
R&D AND QC
TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K.PERYAPATTI (PO),
MANAPPARAI (TK.), TRICHY (DT)-621308.

Tamilnadu Newsprint and Papers Limited UNIT II

Online AAQ Monitoring (West Gate) - September'2024

Date	UNITII_WEST_G ATE- NOx(ug/m3)	UNITII_WEST_G ATE- PM2.5(ug/m3)	UNITII_WEST_G ATE- PM10(ug/m3)	UNITII_WEST_G ATE-SO2(ug/m3)
01-09-2024	1.05	4.38	16.72	2.77
02-09-2024	1.1	6.18	22.32	2.8
03-09-2024	1.6	6.76	25.16	2.73
04-09-2024	1.55	8.15	29.31	2.8
05-09-2024	1.1	9.34	32.95	2.74
06-09-2024	1.37	8.7	29.44	2.85
07-09-2024	0.96	8.05	28.23	2.82
08-09-2024	1.53	6.77	22.42	2.86
09-09-2024	1.62	6.91	24.15	2.8
10-09-2024	1.17	8.66	30.47	2.78
11-09-2024	2.04	8.24	28.67	2.8
12-09-2024	2.08	7.4	26.56	2.81
13-09-2024	1.07	8.03	28.29	2.62
14-09-2024	0.74	6.03	20	2.68
15-09-2024	0.3	7.32	22.63	2.62
16-09-2024	0.61	8.49	26.19	2.61
17-09-2024	0.54	7.43	22.93	2.6
18-09-2024	0.75	10.38	35.13	2.66
19-09-2024	1.63	10.7	36.86	2.74
20-09-2024	1.77	10.06	32.96	2.73
21-09-2024	1.32	7.39	24.08	3.11
22-09-2024	0.44	6.94	21.2	2.79
23-09-2024	0.4	5.45	18.47	2.68
24-09-2024	0.53	5.52	18.94	2.7
25-09-2024	0.68	4.91	18.81	2.57
26-09-2024	0.49	5.32	17.36	2.56
27-09-2024	1.17	6.72	21.66	2.42
28-09-2024	2.82	7.69	20.32	2.52
29-09-2024	7.91	5.22	16.74	2.68
30-09-2024	11.79	6.45	27.71	2.77
Max	11.8	10.7	36.9	3.1
Min	0.3	4.4	15.7	2.4
Avg	1.7	7.3	24.9	2.7

GENERAL MANAGER
R&D AND QC
TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K.PERIYAPATTI (PO),
MANAPPARAI (TK.), TRICHY (DT)-621306.

TEST REPORT

Test Report No & Date CTL/CH/N-21494/2024-25 & 03.05.2024
Sample Number N-21494/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Tiruchy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality
Sampling Location BACKSIDE OF WORK SHOP (NEAR COMPOUND WALL)
Sample Drawn on 24.04.2024 & 09:40 to 25.04.2024 & 09:40
Sample Received on 27.04.2024
Sampling Plan & Procedure CTL/QSP/P-09 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S No 2610-DTI-2019
Analysis Started on 27.04.2024
Analysis Completed on 03.05.2024

Environmental Condition
Relative Humidity 57%
Ambient Temperature 35°C
Wind Direction ESE
Weather Condition Clear Sky

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 24 - 2019	µg/m ³	26.7	60
2	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	62.3	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2003 (R.2017)	µg/m ³	11.6	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	26.5	80
5	OZONE (O ₃)	CTL/SOP/AIR/09 - 2016	µg/m ³	38.2	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2010	µg/m ³	25.7	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-



For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory
G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

Page 1 of 2

This Report shall not be used as a copy, duplicate and for any malicious purpose.
 The Report is valid only for the use of the customer to guide their activities.

TEST REPORT

Test Report No & Date	CTL/CH/N-21494/2024-25 & 03.05.2024
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SLNO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2010	µg/m ³	BDL(DL:0.01)	-

National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 18.11.2009.

BDL - Below Detection Limit (D.L - Detection Limit)

END OF REPORT

Verified by 

For Chemical Testing Laboratory Pvt Ltd

Authorized Signatory

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 2 of 2

TEST REPORT

Test Report No & Date CTL/CH/N-21495/2024-25 & 03.05.2024
Sample Number N-21495/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II.
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality
Sampling Location FACTORY CANTEN BUILDING
Sample Drawn on 24.04.2024 & 09.30 to 25.04.2024 & 09.30
Sample Received on 27.04.2024
Sampling Plan & Procedure CTL/QSP/F-B9 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S No 2613-DYI-2019
Analysis Started on 27.04.2024
Analysis Completed on 03.05.2024

Environmental Condition
Relative Humidity 57%
Ambient Temperature 35°C
Wind Direction ESE
Weather Condition Clear Sky

Test Results:

The above sample tested as received, and results are as follows.

SLNO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	31.6	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	67.2	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	13.7	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	27.0	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	40.0	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	26.2	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZ(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE (H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-

[Signature]
 Authorised Signatory

For CHENNAI Testing Laboratory Pvt Ltd

[Signature]
 Authorised Signatory
STANIKANDAN
 Head - Environment Division
 (CHEMICAL)

TEST REPORT

Test Report No & Date	CTL/CH/N-21495/2024-25 & 03.05.2024
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SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	µg/m ³	BDL(DL:0.01)	.

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 825(E) dated 18.11.2009.

BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT

[Signature]
Head of Division

For Chennai Testing Laboratory Pvt Ltd

[Signature]
Authorized Signatory

G. MANIKANDAN
HEAD - Environment Division
(CHEMICAL)

Page 2 of 2

TEST REPORT

Test Report No & Date CTL/CH/N-21496/2024-25 & 03.05.2024
Sample Number N-21496/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality
Sampling Location GUEST HOUSE
Sample Drawn on 25.04.2024 & 15.30 to 26.04.2024 & 15.30
Sample Received on 27.04.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2245-DTK-2017
Analysis Started on 27.04.2024
Analysis Completed on 03.05.2024

Environmental Condition
Relative Humidity 56%
Ambient Temperature 34°C
Wind Direction SE
Weather Condition Clear Sky

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	20.0	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2016 (R.2017)	µg/m ³	47.5	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	7.0	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	15.0	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	24.1	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2019	µg/m ³	15.5	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:10)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE (H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-

For Chennai Testing Laboratory Pvt Ltd

[Signature]
 Name of the Analyst

[Signature]
 Name of the Analyst
 Environment Division
 (CHEMICAL)

The Report shall not be used to malign, defend and for any malicious purpose
 The Report is made only for the use of the addressee to whom it is addressed.

TEST REPORT

Test Report No & Date	CTL/CH/N-21496/2024-25 & 03.05.2024
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SLNO	PARAMETERS	METHODS	UNITS	RESULTS	MAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2010	ug/m ³	BDL(DL:0.01)	-

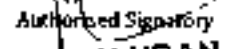
*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R.826(E) dated 18.11.2009

BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT

Authorised by 

For Chemical Testing Laboratory Pvt Ltd

Authorised Signatory

S. MANIKANDAN
 Head, Environment Division
 (CHEMICAL)

Page 2 of 2

TEST REPORT

Test Report No & Date CTL/CH/N-21497/2024-25 & 03.05.2024
Sample Number N-21497/24-25
Name of the Customer M/S. TAMIL KADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality
Sampling Location THIRU, KANDASAMY HOUSE, PONGUDIPATTI (8 METER ROAD JUNCTION, OUTSIDE OF COMPOUND WALL)
Sample Drawn on 25.04.2024 & 16.00 to 26.04.2024 & 16.00
Sample Received on 27.04.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:1985-DTD-2016
Analysis Started on 27.04.2024
Analysis Completed on 03.05.2024

Environmental Condition
Relative Humidity 56%
Ambient Temperature 34°C
Wind Direction SE
Weather Condition Clear Sky

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 24 - 2019	µg/m ³	24.5	60
2	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	56.0	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	97	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	20.0	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	27.5	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	16.2	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-



For Chennai Testing Laboratory Pvt Ltd

G. MAHALINGAM
 Head - Environment Division
 (CHEMICAL) Page 1 of 2

The report shall not be used for legal dispute and for any financial purpose.
 The report is valid only for the use of the customer registered in Chennai.

TEST REPORT

Test Report No & Date	CTL/CH/N-21497/2024-25 & 03.05.2024
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SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/15-2016	µg/m ³	BUL(UL-001)	-

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 18.11.2009.

B/DL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT



For Chennai Testing Laboratory Pvt Ltd



Authorized Signatory

Page 2 of 2

G. MANIKANDAN
Head - Environment
(CHEMICAL)

TEST REPORT

Test Report No & Date CTL/CH/N-21498/2024-25 & 03.05.2024
Sample Number N-21498/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT III.
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality
Sampling Location 110KVA SUB-STATION (RIGHT SIDE 10METERS AWAY)
Sample Drawn on 24.04.2024 & 10.30 to 25.04.2024 & 10.30
Sample Received on 27.04.2024
Sampling Plan & Procedure CTL/SOP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S No:2611-DTI-2019
Analysis Started on 27.04.2024
Analysis Completed on 03.05.2024

Environmental Condition
Relative Humidity 57%
Ambient Temperature 35°C
Wind Direction ESE
Weather Condition Clear Sky

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	MAQS*
1	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 24 - 2019	µg/m ³	33.5	60
2	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 23 - 2016 (R.2017)	µg/m ³	71.0	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	15.4	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	28.0	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	46.6	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	342	100
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-

Analysed by 

For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory
G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

TEST REPORT

Test Report No & Date	CTL/CH/N-21498/2024-25 & 03.05.2024
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SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	µg/m ³	BDL(DL-001)	

National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 18.11.2009.

BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT

Verified by 

For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory

Page 2 of 2

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

TEST REPORT

Test Report No & Date	CTL/CH/N-21499/2024-25 & 03.05.2024
Sample Number	N-21499/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyapatti Post, Mariappara Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Ambient Air
Sample Description	Ambient Air Quality
Sampling Location	WEST ENTRANCE GATE (RIGHT SIDE 50 METERS AWAY FROM THE GATE, 10 METERS FROM COMPOUND WALL)
Sample Drawn on	24.04.2024 & 10.20 to 25.04.2024 & 10.20
Sample Received on	27.04.2024
Sampling Plan & Procedure	CTL/QSP/F-09 & IS 5182 (Part V) and (Part XIV)
Sample Quantity	1 No
Equipment used for Sampling	RDS Sampler S.No:2000-DTC-2016
Analysis Started on	27.04.2024
Analysis Completed on	03.05.2024

Environmental Condition	
Relative Humidity	57%
Ambient Temperature	35°C
Wind Direction	ESE
Weather Condition	Clear Sky

Test Results:

The above sample tested as received, and results are as follows

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 21 - 2019	µg/m ³	34.8	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	76.2	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	16.1	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	31.0	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	48.5	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	ng/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	30.6	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE (H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-

Checked by 

For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory

MANIKANDAN
Head - Environment Division
(CHEMICAL)

TEST REPORT

Test Report No & Date	CTL/CH/N-21499/2024-25 & 03.05.2024
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SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (II)g	CTL/SOP/AIR/25-2016	µg/m ³	BDL(DL-001)	

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 18.11.2009.

DDL - Below Detection Limit(D.L - Detection Limit)

*** END OF REPORT***

Verified by 

For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory

Page 2 of 2

G. MANIKANDAN
Head - Environmental Division
(CHEMICAL)

TEST REPORT

Test Report No & Date CTL/CH/N-21500/2024-25 & 03.05.2024
Sample Number N-21500/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality
Sampling Location MALAYA GOUNDER HOUSE, PERIYAPPATI VILLAGE
Sample Drawn on 25.04.2024 & 09.10 to 26.04.2024 & 09.10
Sample Received on 27.04.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2610-DTI-2019
Analysis Started on 27.04.2024
Analysis Completed on 03.05.2024

Environmental Condition
Relative Humidity 56%
Ambient Temperature 34°C
Wind Direction SE
Weather Condition Clear Sky

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 24 - 2019	µg/m ³	22.1	60
2	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 23 - 2016 (R.2017)	µg/m ³	55.0	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	8.1	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	17.0	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	22.0	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	11.4	400
9	ARSENIC (AS)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (NI)	IS 5182 Part 26 - 2020	µg/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-

[Handwritten Signature]

For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory
G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

TEST REPORT

Test Report No & Date	CTL/CH/N-21500/2024-25 & 03.05.2024
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SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	MAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	µg/m ³	BDL(DL:0.01)	

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 10.11.2009.

BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT



For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory

Page 2 of 2

G. MANIKANDAN
Environment Division
(CHEMICAL)

TEST REPORT

Test Report No & Date CTL/CH/N-21501/2024-25 & 03.05.2024
Sample Number N-21501/24-25
Name of the Customer M/S. TAMIL KADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality
Sampling Location SHANMUGAM, PADHIRIPATTI
Sample Drawn on 25.04.2024 & 09.30 to 26.04.2024 & 09.30
Sample Received on 27.04.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.Mr-2613-DTI-2014
Analysis Started on 27.04.2024
Analysis Completed on 03.05.2024

Environmental Condition
Relative Humidity 56%
Ambient Temperature 34°C
Wind Direction SE
Weather Condition Clear Sky

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	MAAQSt
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	23.0	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	56.4	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	9.0	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	16.7	80
5	OZONE (O ₃)	CTL/SOP/AIR/03 - 2016	µg/m ³	24.5	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	12.6	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	µg/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE (H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-



For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory
G. MANIKANDAN
 In-charge - Environment Division
 (CHEMICAL)

Page 1 of 2

The Report should not be used to make, confirm and/or deny any legal proceedings.
 The Report is meant only for the use of the addressee to provide further proof.

TEST REPORT

Test Report No & Date	CTL/CH/N-21501/2024-25 & 03.05.2024
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SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	µg/m ³	BDL(DL-001)	

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 18.11.2009.

BDL - Below Detection Limit(DL - Detection Limit)

END OF REPORT



For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory

Page 2 of 2

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

TEST REPORT

Test Report No & Date CTL/CH/N-21502/2024-25 & 03.05.2024
Sample Number N-21502/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT III
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality
Sampling Location ARUMUGAM GOUNDER, PODUVARPATTI
Sample Drawn on 25.04.2024 & 09.50 to 26.04.2024 & 09.50
Sample Received on 27.04.2024
Sampling Plan & Procedure CTI./QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:224S-DTK-2017
Analysis Started on 27.04.2024
Analysis Completed on 03.05.2024

Environmental Condition
Relative Humidity 56%
Ambient Temperature 34°C
Wind Direction SE
Weather Condition Clear Sky

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	21.7	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	50.0	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	67	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	13.0	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	185	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/Z3 - 2016	mg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	10.0	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-

Authorised Signatory

For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory
G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

Page 3 of 2

This Report shall not be used for any legal, official and/or any malicious purpose.
 The Report is valid only for the period of the validity of the certificate for the concerned parameter.

TEST REPORT

Test Report No & Date	CTL/CH/N-21502/2024-25 & 03.05.2024
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SL NO	PARAMETERS	METHODS	UNITS	RESULTS	MAAQST
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	µg/m ³	BDL(DL-001)	-

National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 16.11.2009.

BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT

Analyst by 

For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory

Page 2 of 2

MANIKANDAN
Officer - Environment Division
(CHEMICAL)

TEST REPORT

Test Report No & Date CTL/CH/N-22628/2024-25 & 30.05.2024
Sample Number N-22628/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapath Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality Monitoring
Sampling Location BACKSIDE OF WORK SHOP (NEAR COMPOUND WALL.)
Sample Drawn on 20.05.2024 & 10.00 to 21.05.2024 & 10.00
Sample Received on 24.05.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2610-DTI-2019
Analysis Started on 24.05.2024
Analysis Completed on 30.05.2024

Environmental Condition
Relative Humidity 69%
Ambient Temperature 30°C
Wind Direction WNW
Weather Condition Partly Cloudy

Test Results:

The above sample tested as received, and results are as follows:

SL-NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	24.6	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	56.9	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	9.8	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	21.5	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	39.0	100
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	µg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	19.5	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	µg/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	µg/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZOPHENANTHRENE	IS 5182 PART 12 - 2004 (R.2019)	µg/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL: 6.0)	-

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For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory
MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-22628/2024-25 & 30.05.2024
-----------------------	-------------------------------------

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	µg/m ³	NDL(DL:0.01)	

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 18.11.2002.

NDL - Below Detection Limit(D.L. - Detection Limit)

END OF REPORT


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For Chennai Testing Laboratory Pvt Ltd

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G. MANKANDAN
Head - Environment Division
(CHEMICAL)

Page 2 of 2

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-22629/2024-25 & 30.05.2024
Sample Number N-22629/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mundipatti Village, K.Periyapath Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality Monitoring
Sampling Location FACTORY CANTEEN BUILDING
Sample Drawn on 20.05.2024 & 09.50 to 21.05.2024 & 09.50
Sample Received on 24.05.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2613-DT1-2019
Analysis Started on 24.05.2024
Analysis Completed on 30.05.2024

Environmental Condition
Relative Humidity 69%
Ambient Temperature 30°C
Wind Direction WNW
Weather Condition Partly Cloudy

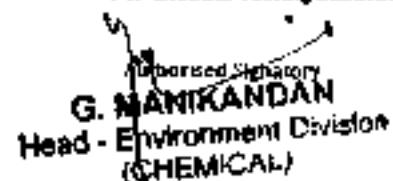
Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	MAQS*
1	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 24 - 2019	µg/m ³	20.6	60
2	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	50.0	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	8.5	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	19.2	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	23.5	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/13 - 2016	ng/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	15.7	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-


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For Chennai Testing Laboratory Pvt Ltd


G. MANIKANDAN
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TEST REPORT

Test Report No & Date	CTL/CH/N-22629/2024-25 & 30.05.2024
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SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	µg/m ³	BDL(DL0.01)	

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazeet Notification G.S.R. 826(E) dated 18.11.2009.

BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT


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For Chemical Testing Laboratory Pvt Ltd


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G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-22630/2024-25 & 30.05.2024
Sample Number N-22630/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K. Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality Monitoring
Sampling Location GUEST HOUSE
Sample Drawn on 21.05.2024 & 17.10 to 22.05.2024 & 17.10
Sample Received on 24.05.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 5182 (Part VI) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2245-DTK-2017
Analysis Started on 24.05.2024
Analysis Completed on 30.05.2024

Environmental Condition
Relative Humidity 68%
Ambient Temperature 30°C
Wind Direction WNW
Weather Condition Partly Cloudy

Test Results

The above sample tested as received, and results are as follows:

SL-NO	PARAMETERS	METHODS	UNITS	RESULTS	MAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	16.8	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	44.5	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	5.8	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	11.6	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	17.5	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	10.2	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-

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For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory
G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-22630/2024-25 & 30.05.2024
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SL NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	µg/m ³	BDL(DL:0.01)	-

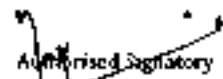
*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 026(E) dated 18.11.2009.

BDL - Below Detection Limit(D.L - Detection Limit)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-22631/2024-25 & 30.05.2024
Sample Number	N-22631/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Penyapattu Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Ambient Air
Sample Description	Ambient Air Quality Monitoring
Sampling Location	THIRU. KANDASAMY HOUSE, PONGUDIPATTI (6 METER ROAD JUNCTION, OUTSIDE OF COMPOUND WALL)
Sample Drawn on	19.05.2024 & 10.40 to 20.05.2024 & 10.40
Sample Received on	24.05.2024
Sampling Plan & Procedure	CTL/QSP/F-09 & IS 5182 (Part V) and (Part XIV)
Sample Quantity	1 No
Equipment used for Sampling	RDS Sampler S.No:1985-DTD-2016
Analysis Started on	24.05.2024
Analysis Completed on	30.05.2024

Environmental Condition

Relative Humidity	66%
Ambient Temperature	31°C
Wind Direction	WNW
Weather Condition	Partly Cloudy

Test Results:

The above sample tested as received, and results are as follows:

SLNO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQs*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	18.6	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R 2017)	µg/m ³	48.5	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R 2017)	µg/m ³	6.3	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 Part 6 - 2006 (R 2017)	µg/m ³	16.5	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	13.8	100
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R 2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	9.7	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R 2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R 2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-

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For Chennai Testing Laboratory Pvt Ltd

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G. MANIKANDAN
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(CHEMICAL) Page 1 of 2

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TEST REPORT

Test Report No & Date	CTL/CH/N-22631/2024-25 & 30.05.2024
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SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	ug/m ³	BDL(DL:0.01)	-

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 16.11.2009

BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT


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Page 2 of 2

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

CIN : U93000TN2000PTC043868

TEST REPORT

Test Report No & Date CTL/CH/M-12632/2024-25 & 30.05.2024
Sample Number N-22632/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II.
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality Monitoring
Sampling Location 110KVA SUB-STATION (RIGHT SIDE 10METERS AWAY)
Sample Drawn on 20.05.2024 & 10.10 to 21.05.2024 & 10.10
Sample Received on 24.05.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2611-DTI-2019
Analysis Started on 24.05.2024
Analysis Completed on 30.05.2024

Environmental Condition
Relative Humidity 69%
Ambient Temperature 30°C
Wind Direction WNW
Weather Condition Partly Cloudy

Test Results:
 The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	28.5	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	64.8	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	11.8	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	21.5	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	27.0	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL-0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL-1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2019	µg/m ³	26.5	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL-1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL 5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL 1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	µg/m ³	BDL(DL0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-


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For Chennai Testing Laboratory Pvt Ltd
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G. MANIKANDAN
 Head, Environment Division
 (CHEMICAL) Page 1 of 2

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TEST REPORT

Test Report No & Date	CTL/CH/N-22632/2024-25 & 30.05.2024
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SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	ng/m ³	BDL(DL:0.01)	-

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India via Gazette Notification G.S.R. 826(E) dated 18.11.2009.

BDL - Below Detection Limit(D.L - Detection Limit)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CL/N-22633/2024-25 & 30.05.2024
Sample Number	N-22633/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Tiruchy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Ambient Air
Sample Description	Ambient Air Quality Monitoring
Sampling Location	WEST ENTRANCE GATE (RIGHT SIDE 50 METERS AWAY FROM THE GATE, 10 METERS FROM COMPOUND WALL)
Sample Drawn on	20.05.2024 @ 09:40 to 21.05.2024 @ 09:40
Sample Received on	24.05.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity	1 No
Equipment used for Sampling	RDS Sampler S No 2000-DTC-2016
Analysis Started on	24.05.2024
Analysis Completed on	30.05.2024

Environmental Condition

Relative Humidity	69%
Ambient Temperature	30°C
Wind Direction	WNW
Weather Condition	Partly Cloudy

Test Results

The above sample tested as received, and results are as follows:-

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	MAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	30.5	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	63.2	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	13.5	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	29.0	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	32.3	100
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	µg/m ³	BDL(DL:1.15)	1
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	28.5	100
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	µg/m ³	BDL (DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 20 - 2020	µg/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE (H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-

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For Chennai Testing Laboratory Pvt Ltd


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G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-22633/2024-25 & 30.05.2024
-----------------------	-------------------------------------

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	µg/m ³	BDL(DL 0.01)	

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 18.11.2009.

BDL - Below Detection Limit(D.L. - Detection Limit)

END OF REPORT


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For Chennai Testing Laboratory Pvt Ltd


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Page 2 of 2

G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-22634/2024-25 & 30.05.2024
Sample Number N-22634/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mundipatti Village, K.Periyappati Post, Manapparai Taluk,
 Tiruchy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality Monitoring
Sampling Location MALAYA GOUNDER HOUSE, PERIYAPPATI VILLAGE
Sample Drawn on 19.05.2024 & 10.25 to 20.05.2024 & 10.25
Sample Received on 24.05.2024
Sampling Plan & Procedure CTL/QSP/F-09 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2610-DT1-2019
Analysis Started on 24.05.2024
Analysis Completed on 30.05.2024

Environmental Condition
Relative Humidity 66%
Ambient Temperature 31°C
Wind Direction WNW
Weather Condition Partly Cloudy

Test Results:

The above sample tested as received, and results are as follows.

SL-NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	14.7	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	36.1	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	4.5	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	9.6	90
5	OZONE (O ₃)	LTL/SOP/AIR/08 - 2016	µg/m ³	16.4	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL (DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	µg/m ³	BDL (DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2016	µg/m ³	7.2	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL (DL 1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL (DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL (DL 1.0)	5
12	BPM20(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL (DL:0.5)	1
13	HYDROGEN SULPHIDE (H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL (DL:6.0)	-


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For Chennai Testing Laboratory Pvt Ltd


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G. NAIKANDAN
 Head - Environment Division
 (CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CI/N-22634/2024-25 & 30.05.2024
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SLNO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	µg/m ³	BDL(DL-0.01)	-

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 626(E) dated 19.11.2009.

BDL - Below Detection Limit(D.L - Detection Limit)

*****END OF REPORT*****


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For Chennai Testing Laboratory Pvt Ltd

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G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 2 of 2

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-22635/2024-25 & 30.05.2024
Sample Number	N-22635/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II.
Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Ambient Air
Sample Description	Ambient Air Quality Monitoring
Sampling Location	SHANMUGAM, PADHIRIPATTI
Sample Drawn on	19.05.2024 & 09.50 to 20.05.2024 & 09.50
Sample Received on	24.05.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity	1 No
Equipment used for Sampling	RDS Sampler S.No:2613-DTI-2019
Analysis Started on	24.05.2024
Analysis Completed on	30.05.2024

Environmental Condition	
Relative Humidity	66%
Ambient Temperature	31°C
Wind Direction	WNW
Weather Condition	Partly Cloudy

Test Results:
The above sample tested as received, and results are as follows:-

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	MAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	17.0	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	39.0	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 3 - 2001 (R.2017)	µg/m ³	6.1	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	11.0	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	15.2	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	8.9	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-

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G. MANIKANDAN Page 1 of 2
Head - Environment Division
(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-22635/2024-25 & 30.05.2024
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SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/50P/AIR/25-2016	µg/m ³	BDL(DL 0.01)	-

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 19.11.2009.

BDL - Below Detection Limit(D.L - Detection Limit)

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G. MANIKANDAN
 Head - Environmental Division
 (CHEMICAL)

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CIN : U93000TN2000PTC043889

TEST REPORT

Test Report No & Date CTL/CH/N-22636/2024-25 & 30.05.2024
Sample Number N-22636/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality Monitoring
Sampling Location ARUMUGAM GOUNDER, PODUVARPATTI
Sample Drawn on 19.05.2024 & 09:30 to 20.05.2024 & 09:30
Sample Received on 24.05.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S No:2245-DTK-2017
Analysis Started on 24.05.2024
Analysis Completed on 30.05.2024

Environmental Condition
Relative Humidity 66%
Ambient Temperature 31°C
Wind Direction WNW
Weather Condition Partly Cloudy

Test Results

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 24 - 2019	µg/m ³	190	60
2	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	40.5	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	5.4	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	9.8	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	10.5	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	5.7	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	1
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	µg/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-

For Chennai Testing Laboratory Pvt Ltd

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 Head - Environment Division
 (CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-22636/2024-25 & 30.05.2024
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SL NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CYL/SOP/AIR/25 2016	µg/m ³	BDL (DL 0.01)	.

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 19.11.2009.

BDL - Below Detection Limit (DL - Detection Limit)

END OF REPORT


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Page 2 of 2

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-24922/2024-25 & 03.07.2024
Sample Number N-24922/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipath Village, K.Periyapatti Post, Manapparai Tahik,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality Monitoring
Sampling Location BACKSIDE OF WORK SHOP (NEAR COMPOUND WALL)
Sample Drawn on 24.06.2024 & 11.30 to 25.06.2024 & 11.30
Sample Received on 27.06.2024
Sampling Plan & Procedure CTL/QSP/F-07 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No.2245- DTK-2017
Analysis Started on 27.06.2024
Analysis Completed on 03.07.2024

Environmental Condition

Relative Humidity 63%
Ambient Temperature 33°C
Wind Direction SW
Weather Condition Partly-Cloudy

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	MAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	27.8	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	59.4	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	10.2	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	23.6	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	32.5	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	23.7	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART-07 - 2021	µg/m ³	BDL(DL:6.0)	-


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For Chennai Testing Laboratory Pvt Ltd


Authorized Signatory
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C.N. U93000TN2000P*043869

TEST REPORT

Test Report No & Date	CTL/CH/N-24922/2024-25 & 03 07.2024
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SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	ug/m ³	BDL(BDL:0.01)	

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 836(E) dated 18.11.2009.

BDL - Below Detection Limit (D.L. - Detection Limit)

END OF REPORT


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Page 2 of 2

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-24923/2024-25 & 03.07.2024
Sample Number N-24923/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II.
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality Monitoring
Sampling Location FACTORY CANTEEN BUILDING
Sample Drawn on 24.06.2024 & 11.15 to 25.06.2024 & 11.15
Sample Received on 27.06.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2610-DT1-2019
Analysis Started on 27.06.2024
Analysis Completed on 03.07.2024

Environmental Condition
Relative Humidity 63%
Ambient Temperature 33°C
Wind Direction SW
Weather Condition Partly Cloudy

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5102 Part 24 - 2019	µg/m ³	23.0	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	54.8	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	9.0	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	17.8	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	22.6	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	19.8	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	OPN/α)PYRENE	IS 5102 PART 17 - 2004 (R.2019)	µg/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-

For Chennai Testing Laboratory Pvt Ltd

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Authorised Signatory
G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

Page 1 of 2

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TEST REPORT

Test Report No & Date	CTL/CH/N-24923/2024-25 & 03.07.2024
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SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	µg/m ³	BDL(DL:0.01)	-

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 18.11.2009.

BDL - Below Detection Limit(D.L. - Detection Limit)

END OF REPORT


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Head - Environment Division
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Page 2 of 2

CIN U93000TN2000PTC043863

TEST REPORT

Test Report No & Date CTL/CH/N-24924/2024-25 & 03.07.2024
Sample Number N-24924/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II.
Address Mondipattu Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality Monitoring
Sampling Location GUEST HOUSE
Sample Drawn on 24.06.2024 & 12.50 to 25.06.2024 & 12.50
Sample Received on 27.06.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2613-DTJ-2019
Analysis Started on 27.06.2024
Analysis Completed on 03.07.2024

Environmental Condition
Relative Humidity 63%
Ambient Temperature 33°C
Wind Direction SW
Weather Condition Partly Cloudy

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 24 - 2019	µg/m ³	14.9	60
2	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	41.7	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	6.9	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	13.5	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	19.6	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	12.2	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	µg/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	µg/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(A)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-


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For Chennai Testing Laboratory Pvt Ltd


 Authorised Signatory
G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

Page 1 of 2

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C.N U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-24924/2024-25 & 03.07.2024
-----------------------	-------------------------------------

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	ug/m ³	BDL(DL:0.01)	

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 824(E) dated 18.11.2009.

BDL - Below Detection Limit(D.L. - Detection Limit)

END OF REPORT


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Page 2 of 2

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-24925/2024-25 & 03.07.2024
Sample Number	N-24925/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Ambient Air
Sample Description	Ambient Air Quality Monitoring
Sampling Location	THIRU. KANDASAMY HOUSE, PONGUDIPATTI (8 METER ROAD JUNCTION, OUTSIDE OF COMPOUND WALL)
Sample Drawn on	23.06.2024 & 09.35 to 24.06.2024 & 09.35
Sample Received on	27.06.2024
Sampling Plan & Procedure	CTL/QSP/F-09 & IS 5182 (Part V) and (Part XIV)
Sample Quantity	1 No
Equipment used for Sampling	RDS Sampler S.No:2245-DTK-2017
Analysis Started on	27.06.2024
Analysis Completed on	03.07.2024

Environmental Condition	
Relative Humidity	65%
Ambient Temperature	32.5°C
Wind Direction	SW
Weather Condition	Partly Cloudy

Test Results:

The above sample tested as received, and results are as follows:

SL NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	21.4	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	52.8	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	7.2	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	17.5	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	16.9	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	ng/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	ng/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	12.3	100
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZENE(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(TL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-

For Chennai Testing Laboratory Pvt Ltd.


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G. MANIKANDAN
Head - Environmental Division
(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-24925/2024-25 & 03.07.2024
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SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	ng/m ³	BDL(DL:0.01)	-

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 326(E) dated 18.11.2009.

BDL - Below Detection Limit(DL - Detection Limit)

END OF REPORT


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For Chennai Testing Laboratory Pvt Ltd


Authorised Signatory

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G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-24926/2024-25 & 03.07 2024
Sample Number N-24926/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT #1,
Address Mondipalli Village, K.Periyapatti Post, Manappalal Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality Monitoring
Sampling Location 110KVA SUB-STATION (RIGHT SIDE 10METERS AWAY)
Sample Drawn on 24.06.2024 & 11.55 to 25.06.2024 & 11.55
Sample Received on 27.06.2024
Sampling Plan & Procedure CTL/QSP/P-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2000-DTC-2016
Analysis Started on 27.06.2024
Analysis Completed on 03.07.2024

Environmental Condition
Relative Humidity 62%
Ambient Temperature 33°C
Wind Direction SW
Weather Condition Partly Cloudy

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	MAAQ5*
1	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 24 - 2019	µg/m ³	32.6	60
2	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	69.0	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	13.0	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	27.6	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	34.6	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	31.8	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZ(A)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-

For Chennai Testing Laboratory Pvt Ltd

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G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

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TEST REPORT

Test Report No & Date	CTL/CH/N-24926/2024-25 & 03.07.2024
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SLNO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	µg/m ³	BDL(DL0.01)	-

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 18.11.2009

BDL - Below Detection Limit(D L - Detection Limit)

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Page 2 of 2

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

CIN U93006TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-24927/2024-25 & 03.07.2024
Sample Number	N-24927/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Tiruchy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Ambient Air
Sample Description	Ambient Air Quality Monitoring
Sampling Location	WEST ENTRANCE GATE (RIGHT SIDE 50 METERS AWAY FROM THE GATE, 10 METERS FROM COMPOUND WALL)
Sample Drawn on	24.06.2024 & 11.45 to 25.06.2024 & 11.45
Sample Received on	27.06.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity	1 No
Equipment used for Sampling	RDS Sampler S.No:2611-D11-2019
Analysis Started on	27.06.2024
Analysis Completed on	03.07.2024

Environmental Condition	
Relative Humidity	63%
Ambient Temperature	33°C
Wind Direction	SW
Weather Condition	Partly Cloudy

Test Results:

The above sample tested as received, and results are as follows:

SLNO	PARAMETERS	METHODS	UNITS	RESULTS	MAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	31.2	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	06.3	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	12.7	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	28.0	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	39.4	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL-0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL-1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2019	µg/m ³	24.6	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL-1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL-5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL-1.0)	5
12	BENZ(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	NDL(DL-0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL-6.0)	-

For Chennai Testing Laboratory Pvt Ltd

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G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

Page 1 of 2

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TEST REPORT

Test Report No & Date	CTL/CH/N-24927/2024-25 & 03.07.2024
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SL-NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	µg/m ³	BDL(DL:0.01)	-

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide G.O.Motification G.S.R. 826(E) dated 18.11.2009.

BDL - Below Detection Limit(D.L - Detection Limit)

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Page 2 of 2

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-24928/2024-25 & 03.07.2024
Sample Number	N-24928/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II.
Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Ambient Air
Sample Description	Ambient Air Quality Monitoring
Sampling Location	MALAYA GOUNDER HOUSE, PERIYAPPATI VILLAGE
Sample Drawn on	23.06.2024 & 09.55 to 24.06.2024 & 09.55
Sample Received on	27.06.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity	1 No
Equipment used for Sampling	RDS Sampler S.No:2610-DTI-2019
Analysis Started on	27.06.2024
Analysis Completed on	03.07.2024

Environmental Condition	
Relative Humidity	65%
Ambient Temperature	32.5°C
Wind Direction	SW
Weather Condition	Partly Cloudy

Test Results:
The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	16.5	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	42.5	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	5.6	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	11.5	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	17.2	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R 2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	µg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	9.6	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	µg/m ³	BPL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	µg/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	µg/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-

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For Chennai Testing Laboratory Pvt Ltd
 Authorised Signatory:
G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)
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TEST REPORT

Test Report No & Date	CTL/CH/N-24928/2024-25 & 03.07.2024
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SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQ5*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	µg/m ³	BDL(DL:0.01)	

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 026(E) dated 18.11.2009.

BDL - Below Detection Limit(D.L. - Detection Limit)

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TEST REPORT

Test Report No & Date CTL/CH/N-24929/2024-25 & 03.07.2024
Sample Number N-24929/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality Monitoring
Sampling Location SHANMUGAM, PADHIRIPATTI
Sample Drawn on 23.06.2024 & 10.20 to 24.06.2024 & 10.20
Sample Received on 27.06.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2613-DTI-2019
Analysis Started on 27.06.2024
Analysis Completed on 03.07.2024

Environmental Condition:
Relative Humidity 65%
Ambient Temperature 32.5°C
Wind Direction SW
Weather Condition Partly Cloudy

Test Result:

The above sample tested as received, and results are as follows:

SL NO	PARAMETERS	METHODS	UNITS	RESULTS	MAAQ5*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	15.7	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	38.4	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	5.4	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	10.0	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	13.8	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	10.2	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-

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For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory
G. MANIRANDAN
 Head - Environmental Division
 (CHEMICAL)

Page 1 of 2

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TEST REPORT

Test Report No & Date	CTL/CH/N-24929/2024-25 & 03.07.2024
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SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	MAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	$\mu\text{g}/\text{m}^3$	BDL(DL 0.01)	

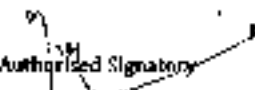
*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 18.11.2009.

BDL - Below Detection Limit(D.L - Detection Limit)

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Page 2 of 2

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

CIN : U93300TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-24930/2024-25 & 03.07.2024
Sample Number N-24930/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Penyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality Monitoring
Sampling Location ARUMUGAM GOUNDER, POUVARPATTI
Sample Drawn on 23.06.2024 & 10.45 to 24.06.2024 & 10.45
Sample Received on 27.06.2024
Sampling Plan & Procedure CTL/QSP/P-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2000-DTC-2016
Analysis Started on 27.06.2024
Analysis Completed on 03.07.2024

Environmental Condition
Relative Humidity 65%
Ambient Temperature 32.5°C
Wind Direction SW
Weather Condition Partly Cloudy


Test Results

The above sample tested as received, and results are as follows.

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	MAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	17.6	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	37.9	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	6.4	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	12.8	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	9.2	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	NDL(ML:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	9.4	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	µg/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZ(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	


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For Chennai Testing Laboratory Pvt Ltd


Authorized Signatory
G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

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TEST REPORT

Test Report No & Date	CTL/CH/N-24930/2024-25 & 03.07.2024
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SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQ5*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	ng/m ³	BDL(DL:0.01)	-

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R 826(E) dated 16.11.2009.

BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT


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Page 2 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date: CTL/CH/N-26945/2024-25 & 07.08.2024
 Sample Number: N-26945/24-25
 Name of the Customer: M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
 Address: Mondipatti Village, K.Peryapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu

Sample Drawn by: Laboratory
 Sample Name: Ambient Air
 Sample Description: Ambient Air Quality Monitoring
 Sampling Location: BACKSIDE OF WORK SHOP (KEAR COMPOUND WALL)
 Sample Drawn on: 29.07.2024 @ 09:45 to 30.07.2024 @ 09:45
 Sample Received on: 01.08.2024
 Sampling Plan & Procedure: CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
 Sample Quantity: 1 No
 Equipment used for Sampling: RDS Sampler S.No:2245-DTK-2017
 Analysis Started on: 01.08.2024
 Analysis Completed on: 07.08.2024

Environmental Condition
 Relative Humidity: 65%
 Ambient Temperature: 32°C
 Wind Direction: SW
 Weather Condition: Clear Sky

Test Results:
 The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	31.7	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	65.5	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	11.0	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	28.5	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	34.6	180
6	LEAD (Pb)	IS 5182 PART 77 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	ng/m ³	BDL(DL:1.15)	+
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	25.4	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-

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For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory
G. MANKANDAN
 Head - Environment Division
 (CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-26945/2024-25 & 07.08.2024
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SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	ug/m ³	BDL(DL:0.01)	-

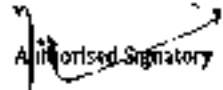
*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 026(E) dated 18.11.2009.

BDL - Below Detection Limit(D.L. - Detection Limit)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd


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G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date: CTL/CH/N-26944/2024-25 & 07.08.2024
 Sample Number: N-26944/24-25
 Name of the Customer: M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
 Address: Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by: Laboratory
 Sample Name: Ambient Air
 Sample Description: Ambient Air Quality Monitoring
 Sampling Location: FACTORY CANTEN BUILDING
 Sample Drawn on: 29.07.2024 & 09.35 to 30.07.2024 & 09.35
 Sample Received on: 01.08.2024
 Sampling Plan & Procedure: CTL/QSP/P-A9 & IS 5182 (Part V) and (Part XIV)
 Sample Quantity: 1 No
 Equipment used for Sampling: RDS Sampler S.No-2610-DT1-2019
 Analysis Started on: 01.08.2024
 Analysis Completed on: 07.08.2024

Environmental Condition

Relative Humidity: 65%
 Ambient Temperature: 32°C
 Wind Direction: SW
 Weather Condition: Clear Sky

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	361	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	740	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	142	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	265	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	37.5	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	283	400
9	ACETONIC (Ac)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	µg/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-

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For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory
G. MANIKANDAN
 Head - Environme. Division
 (CHEMICAL)

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CIN U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-26944/2024-25 & 07.08.2024
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SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	ug/m ³	BDL(DL:0.01)	

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 16.11.2009

BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT


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G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date: CTL/CH/N-26950/2024-25 & 07.08.2024
 Sample Number: N-26950/24-25
 Name of the Customer: M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
 Address: Mondipatti Village, K.Periyapatti Post, Manapperal Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by: Laboratory
 Sample Name: Ambient Air
 Sample Description: Ambient Air Quality Monitoring
 Sampling Location: GUEST HOUSE
 Sample Drawn on: 30.07.2024 & 09.10 to 31.07.2024 & 09.10
 Sample Received on: 01.08.2024
 Sampling Plan & Procedure: CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
 Sample Quantity: 1 No
 Equipment used for Sampling: RDS Sampler S.No:2613-DT1-2019
 Analysis Started on: 01.08.2024
 Analysis Completed on: 07.08.2024

Environmental Condition
 Relative Humidity: 61%
 Ambient Temperature: 34°C
 Wind Direction: SW
 Weather Condition: Clear Sky

Test Results:

The above sample tested as received, and results are as follows:

SLNO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 24 - 2019	µg/m ³	27.6	60
2	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	66.9	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	12.5	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	23.6	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	77.5	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.35)	4
8	AMMONIA (NH ₃)	IS 5182 Part 35 - 2018	µg/m ³	19.6	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	ng/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	.

Verified by: 

For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory

G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-26950/2024-25 & 07.08.2024
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SL NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	µg/m ³	BDL(OL:0.01)	-

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 626(E) dated 19.11.2009.

BDL - Below Detection Limit(D.L. - Detection Limit)

END OF REPORT

For Chemical Testing Laboratory Pvt Ltd


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G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-26948/2024-25 & 07.08.2024
Sample Number	N-26948/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT D.
Address	Mondipatti Village, K.Periyapatti Post, Manappuram Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Ambient Air
Sample Description	Ambient Air Quality Monitoring
Sampling Location	THIRU. KANDASAMY HOUSE, PONGUDIPATTI (8 METER ROAD JUNCTION, OUTSIDE OF COMPOUND WALL)
Sample Drawn on	29.07.2024 & 08.20 to 30.07.2024 & 08.20
Sample Received on	01.08.2024
Sampling Plan & Procedure	CTL/QSP/F-09 & IS 5182 (Part V) and (Part XIV)
Sample Quantity	1 No
Equipment used for Sampling	RDS Sampler S.No:2245-DTK-2017
Analysis Started on	01.08.2024
Analysis Completed on	07.08.2024

Environmental Condition

Relative Humidity	65%
Ambient Temperature	32°C
Wind Direction	SW
Weather Condition	Clear Sky

Test Results

The above sample tested as received, and results are as follows.

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	27.6	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	60.3	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	9.2	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	18.5	80
5	OXIDINE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	29.4	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	µg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	14.8	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	µg/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	µg/m ³	RM.(M.:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZ(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-

For Chennai Testing Laboratory Pvt Ltd

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Authorised Signatory

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

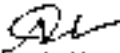
Test Report No & Date	CTL/CH/N-26948/2024-25 & 07.08.2024
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SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	$\mu\text{g}/\text{m}^3$	BDL(DL0001)	.

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 18.11.2009

BDL - Below Detection Limit(D.L. - Detection Limit)

END OF REPORT


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Head - Environment Division
(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-26946/2024-25 & 07.08.2024
Sample Number N-26946/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II.
Address Mondipatti Village, K.Periyapattam Post, Manapparai Taluk,
 Tiruchy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality Monitoring
Sampling Location 110KVA SUB-STATION (RIGHT SIDE 10METERS AWAY)
Sample Drawn on 29.07.2024 & 10.10 to 30.07.2024 & 10.10
Sample Received on 01.08.2024
Sampling Plan & Procedure CTL/QSP/F-09 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2000-DTC-2016
Analysis Started on 01.08.2024
Analysis Completed on 07.08.2024

Environmental Condition

Relative Humidity 65%
Ambient Temperature 32°C
Wind Direction SW
Weather Condition Clear Sky

Test Remarks:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	ug/m ³	36.2	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	ug/m ³	76.4	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5162 Part 2 - 2001 (R.2017)	ug/m ³	15.0	60
4	OXIDES OF NITROGEN (NO _x)	IS 5162 Part 6 - 2006 (R.2017)	ug/m ³	31.0	80
5	OZONE (O ₃)	CTL/SOP/AIR/09 - 2016	ug/m ³	29.7	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	ug/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	ug/m ³	35.2	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	ug/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	RNL(ML:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	ug/m ³	BDL(DL:6.0)	-

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For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory
G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

Page 1 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/M-26946/2024-25 & 07.08.2024
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SLNO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	ug/m ³	BDL(DL-001)	

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 824(E) dated 18.11.2009.

BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT


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For Chennai Testing Laboratory Pvt Ltd


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Page 2 of 2

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)



CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-26947/2024-25 & 07.08.2024
Sample Number	N-26947/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyapatti Post, Manapparal Taluk, Trichy District- 621 306, Tamil Nadu
Sample Drawn by	Laboratory
Sample Name	Ambient Air
Sample Description	Ambient Air Quality Monitoring
Sampling Location	WEST ENTRANCE GATE (RIGHT SIDE 50 METERS AWAY FROM THE GATE, 10 METERS FROM COMPOUND WALL)
Sample Drawn on	29.07.2024 & 09:55 to 30.07.2024 & 09:55
Sample Received on	01.08.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity	1 No
Equipment used for Sampling	RDS Sampler S.No:2611-DTL-2019
Analysis Started on	01.08.2024
Analysis Completed on	07.08.2024

Environmental Condition	
Relative Humidity	65%
Ambient Temperature	32°C
Wind Direction	SW
Weather Condition	Clear Sky

Test Results:

The above sample tested as received, and results are as follows:

SL NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	37.4	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	67.2	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	13.8	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	24.6	80
5	OZONE (O ₃)	CTL/SDP/AIR/08 - 2016	µg/m ³	34.5	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SDP/AIR/23 - 2016	µg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	26.1	400
9	ARSENIC (As)	CTL/SUP/AIR/06 - 2016	µg/m ³	BDL(DL:1.0)	0
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	µg/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	µg/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE (H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	1

For Chennai Testing Laboratory Pvt Ltd

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Authorized Signatory
G. HANIKANDAN
 Head - Environment Division
 (CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-269#7/2024-25 & 07.08.2024
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SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	µg/m ³	BDL(DL:0.01)	-

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 18.11.2009

BDL - Below Detection Limit(D.L. - Detection Limit)

END OF REPORT

Verified by

For Chennai Testing Laboratory Pvt Ltd

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G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date: CTL/CH/N-26952/2024-25 & 07.08.2024
 Sample Number: N-26952/24-25
 Name of the Customer: M/S TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
 Address: Mondipatti Village, K Periyapatti Post, Manappara Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by: Laboratory
 Sample Name: Ambient Air
 Sample Description: Ambient Air Quality Monitoring
 Sampling Location: MALAYA GOUNDER HOUSE, PERIYAPPATI VILLAGE
 Sample Drawn on: 30.07.2024 & 09:40 to 31.07.2024 & 09:40
 Sample Received on: 01.08.2024
 Sampling Plan & Procedure: CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
 Sample Quantity: 1 No
 Equipment used for Sampling: RDS Sampler S.No:2610-DTI-2019
 Analysis Started on: 01.08.2024
 Analysis Completed on: 07.08.2024

Environmental Condition
 Relative Humidity: 61%
 Ambient Temperature: 34°C
 Wind Direction: SW
 Weather Condition: Clear Sky

Test Results
 The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	MAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	20.8	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	51.7	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 3 - 2001 (R.2017)	µg/m ³	6.4	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	13.2	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	19.5	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	10.5	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	ng/m ³	BDL(DL:6.0)	-

For Chennai Testing Laboratory Pvt Ltd

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G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

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CIN : U83000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-26952/2024-25 & 07.08.2024
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SLNO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	ug/m ³	BDL(DL-0.01)	-

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. B26(E) dated 18.11.2009.

BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT


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For Chennai Testing Laboratory Pvt Ltd


Authorized Signatory

G. NANKANDAN
Head - Environment Division
(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-26951/2024-25 & 07.08.2024
Sample Number N-26951/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, KPeriyapatti Post, Mamapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality Monitoring
Sampling Location SIJANMUGAM, PADHIRIPATTI
Sample Drawn on 30.07.2024 & 09.35 to 31.07.2024 & 09.35
Sample Received on 01.08.2024
Sampling Plan & Procedure CTL/QSP/F-09 & IS 5102 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No: 2613-DTI-2019
Analysis Started on 01.08.2024
Analysis Completed on 07.08.2024


Environmental Condition

Relative Humidity 67%
Ambient Temperature 34°C
Wind Direction SW
Weather Condition Clear Sky

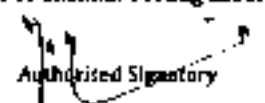
Test Results:

The above sample tested as received, and results are as follows:

SL NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	19.5	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	46.0	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	6.4	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	12.0	80
5	OZONE (O ₃)	CTL/SOP/AIR/09 - 2016	µg/m ³	15.5	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	11.6	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	µg/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-


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For Chennai Testing Laboratory Pvt Ltd


Authorized Signatory
G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

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CIN: U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-26951/2024-25 & 07.08.2024
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SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	µg/m ³	BDL(BL:0.01)	-

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 824(E) dated 18.11.2009.

BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

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CIN U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-26949/2024-25 & 07.08.2024
Sample Number N-26949/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Moodipatti Village, K.Periyapatti Post, Manapparal Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality Monitoring
Sampling Location ARUMUCAM GOUNDER, PODUVARPATTI
Sample Drawn on 29.07.2024 & 00.35 to 30.07.2024 & 00.35
Sample Received on 01.08.2024
Sampling Plan & Procedure CTL/QSP/F-09 & IS 5102 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2000-DTC-2016
Analysis started on 01.08.2024
Analysis Completed on 07.08.2024

Environmental Condition

Relative Humidity 65%
Ambient Temperature 32°C
Wind Direction SW
Weather Condition Clear Sky

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5102 Part 24 - 2019	µg/m ³	18.2	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5102 Part 23 - 2006 (R.2017)	µg/m ³	40.0	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5102 Part 2 - 2001 (R.2017)	µg/m ³	5.7	60
4	OXIDES OF NITROGEN (NO ₂)	IS 5102 Part 6 - 2006 (R.2017)	µg/m ³	9.6	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	11.2	180
6	LEAD (Pb)	IS 5102 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5102 Part 25 - 2018	µg/m ³	8.0	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5102 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5102 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5102 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5102 PART 07 - 2021	µg/m ³	BDL(DL:0.0)	-

For Chennai Testing Laboratory Pvt Ltd

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Authorized Signatory

G. MANKANJAN
 Head - Environment Division
 (CHEMICAL)

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CIN : U93000TN2000PTC043889

TEST REPORT

Test Report No & Date	CTL/CH/N-26949/2024-25 & 07.08.2024
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SL.NO	PARAMETERS	METHOD	UNITS	RESULTS	MAQS*
14	MERCURY (IIg)	CTL/SUP/AIR/25-2016	µg/m ³	BDL(BL:0.01)	

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 18.11.2009.

BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT


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Page 2 of 2

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-20095/2024-25 & 02.09.2024
Sample Number N-20095/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapattam Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality Monitoring
Sampling Location BACKSIDE OF WORK SHOP (NEAR COMPOUND WALL.)
Sample Drawn on 21.08.2024 & 10.35 to 22.08.2024 & 10.35
Sample Received on 24.08.2024
Sampling Plan & Procedure CTL/QSP/F-09 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S No- 2610-LPTI-2019
Analysis Started on 24.08.2024
Analysis Completed on 02.09.2024

Environmental Condition

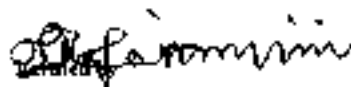
Relative Humidity 64%
Ambient Temperature 33°C
Wind Direction SW
Weather Condition Clear Sky

Test Results:

The above sample tested as received and results are as follows.

S.L.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	ug/m ³	33.5	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	ug/m ³	67.4	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	ug/m ³	13.2	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 Part 6 - 2006 (R.2017)	ug/m ³	29.4	80
5	OZONE (O ₃)	CTL/SOP/AIR/00 - 2016	ug/m ³	30.7	100
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	ug/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	ug/m ³	BDL(DL:1.15)	1
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2016	ug/m ³	26.8	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	ug/m ³	BDL(DL:1.0)	5
12	BENZ(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	ug/m ³	BDL(DL:6.0)	-

For Chennai Testing Laboratory Pvt Ltd



 Authorised Signatory

G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

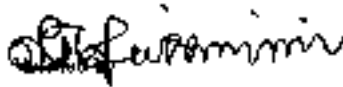
Test Report No & Date	CTL/CH/N-28095/2024-25 & 02.09.2024
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SL.NO	PARAMETERS	METHODS	LIMITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	ug/m ³	BDL(DL-001)	

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 10.11.2009

BDL - Below Detection Limit (D.L. - Detection Limit)

END OF REPORT



For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory:

G. MANIKANDAN
Head - Environment Division
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Page 2 of 2

CIN : U93000TN2000PTC043869

TEST REPORT

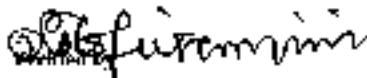
Test Report No & Date	CTL/CL/N-28096/2024-25 & 02.09.2024
Sample Number	N-20096/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyapatti Post, Manapparal Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Ambient Air
Sample Description	Ambient Air Quality Monitoring
Sampling Location	FACTORY CANTEEN BUILDING
Sample Drawn on	21.08.2024 & 10.25 to 22.08.2024 & 10.25
Sample Received on	24.08.2024
Sampling Plan & Procedure	CTL/QSP/F-09 & IS 5182 (Part V) and (Part XIV)
Sample Quantity	1 No
Equipment used for Sampling	RDS Sampler S.No:2613-OTI-2019
Analysis Started on	24.08.2024
Analysis Completed on	02.09.2024

Environmental Condition	
Relative Humidity	64%
Ambient Temperature	33°C
Wind Direction	SW
Weather Condition	Clear Sky

Test Results:
The above sample tested as received, and results are as follows:

Sl. No	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	29.4	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R 2017)	µg/m ³	62.5	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R 2017)	µg/m ³	12.1	60
4	OXIDES OF NITROGEN (NO _x)	IS 5182 Part 6 - 2006 (R 2017)	µg/m ³	25.5	60
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	32.6	180
6	LEAD (Pb)	IS 5182 PART 27 - 2004 (R 2019)	µg/m ³	BNL (DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	24.2	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R 2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2001 (R 2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	.

For Chennai Testing Laboratory Pvt Ltd



Authorized Signatory
G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 1 of 1

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CIN U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-28096/2024-25 & 02.09.2024
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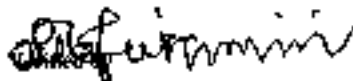
SL.NO	PARAMETERS	METHODS	LIMITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	µg/m ³	BDL(DL:0.01)	

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 19.11.2009.

BDL - Below Detection Limit(DL - Detection Limit)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd



Authorized Signatory
G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

Page 2 of 2

CIN U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-28097/2024-25 & 02.09.2024
Sample Number	N-28097/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Pariyapatti Post, Manapparai Taluk, Tiruchy District - 621 306, Tamil Nadu
Sample Drawn by	Laboratory
Sample Name	Ambient Air
Sample Description	Ambient Air Quality Monitoring
Sampling Location	GUEST HOUSE
Sample Drawn on	22.08.2024 & 15.50 to 23.08.2024 & 15.50
Sample Received on	24.08.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity	1 No
Equipment used for Sampling	RDS Sampler S.No:2245-PTK-2017
Analysis Started on	24.08.2024
Analysis Completed on	02.09.2024
Environmental Condition	
Relative Humidity	62%
Ambient Temperature	34°C
Wind Direction	SW
Weather Condition	Clear Sky

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQs*
1	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 24 - 2019	µg/m ³	16.8	60
2	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	45.6	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	6.3	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	14.8	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	21.6	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL-0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	µg/m ³	BDL(DL-1.15)	1
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	14.5	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	µg/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	µg/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	µg/m ³	BDL(DL-0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-

[Signature]

For Chennai Testing Laboratory Pvt Ltd

[Signature]
Authorized Signatory

G. MANIKAN

Head - Environmental Chemistry
(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date		CTL/CH/N-28097/2024-25 & 02.09.2024			
SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	MAAQ5*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	µg/m ³	BDL(UL-0.01)	

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. B26(E) dated 18.11.2009.

BDL - Below Detection Limit (D.L. - Detection Limit)

END OF REPORT

[Handwritten Signature]

For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory
G. MANHANDAN
 Head - Environment Division
 (CHEMICAL)

Page 2 of 2

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CIN : U93000TN2000PTC043889

TEST REPORT

Test Report No & Date CTL/CH/N-28098/2024-25 & 02.09.2024
Sample Number N-28098/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K Periyapatti Post, Manapparal Taluk,
 Tiruchy District - 621 306, Tamil Nadu.

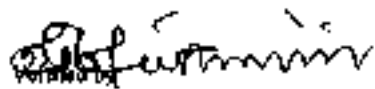
Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality Monitoring
Sampling Location THIRU KANDASAMY HOUSE, PUNGUDEPATTI (B-METER ROAD) JUNCTION, OUTSIDE OF
Sample Drawn on 21.08.2024 & 09.05 to 22.08.2024 & 09.05
Sample Received on 24.08.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No: 1985-BTD-2016
Analysis Started on 24.08.2024
Analysis Completed on 02.09.2024

Environmental Condition

Relative Humidity 64%
 Ambient Temperature 33°C
 Wind Direction SW
 Weather Condition Clear Sky

Test Results:
 The above sample tested as received, and results are as follows.

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 24 - 2019	µg/m ³	24.5	60
2	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	54.8	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	10.2	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	21.3	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	32.5	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	16.2	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-



For Chennai Testing Laboratory Pvt Ltd
 Authorised Signatory
G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

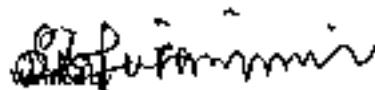
Test Report No & Date	CTL/CH/N-28098/2024-25 & 02.09.2024
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SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	µg/m ³	EDL(DL:0.01)	-

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 18.11.2009

BDL - Below Detection Limit(D.L. - Detection Limit)

END OF REPORT



For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory

Page 2 of 4

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-20099/2024-25 & 02.09.2024
Sample Number N-20099/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mundipatti Village, K.Penyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality Monitoring
Sampling Location 110KVA SUB-STATION (RIGHT SIDE 10METERS AWAY)
Sample Drawn on 21.08.2024 & 11.00 to 22.08.2024 & 11.00
Sample Received on 24.08.2024
Sampling Plan & Procedure CTL/QSP/F-09 & IS 5102 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2611-DTI-2019
Analysis Started on 24.08.2024
Analysis Completed on 02.09.2024

Environmental Condition

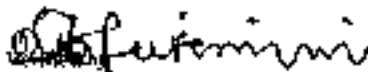
Relative Humidity 64%
Ambient Temperature 33°C
Wind Direction SW
Weather Condition Clear Sky

Test Results

The above sample tested as received, and results are as follows

Sl.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5102 Part 24 - 2019	µg/m ³	34.8	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5102 Part 23 - 2006 (R.2017)	µg/m ³	73.5	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5102 Part 2 - 2001 (R.2017)	µg/m ³	16.3	80
4	OXIDES OF NITROGEN (NO _x)	IS 5102 Part 6 - 2006 (R.2017)	µg/m ³	31.4	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	41.2	180
6	LEAD (Pb)	IS 5102 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5102 Part 25 - 2019	µg/m ³	37.6	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5102 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5102 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5102 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5102 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-

For Chennai Testing Laboratory Pvt Ltd



Authorized Signatory

G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

Page 1 of 2

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TEST REPORT

Test Report No & Date	CTL/CH/N-26099/2024-25 & 02.09.2024
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SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	MAAQ5*
14	MERCURY (Hg)	CTL/SUP/AIR/25-2016	µg/m ³	BDL(DL:0.01)	.

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 18.11.2009

BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT

[Handwritten Signature]

For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory

Page 2 of 2

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

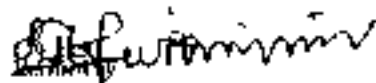
Test Report No & Date	CTL/CH/N-28100/2024-25 & 03.09.2024
Sample Number	N-20100/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyapatti Post, Manapparal Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Ambient Air
Sample Description	Ambient Air Quality Monitoring
Sampling Location	WEST ENTRANCE GATE (FORGET SIDE 50 METERS AWAY FROM THE GATE, 10 METERS FROM COMPOUND WALL)
Sample Drawn on	21.08.2024 & 10.50 to 22.08.2024 & 10.50
Sample Received on	24.08.2024
Sampling Plan & Procedure	CTL/QSP/F-09 & IS 5182 (Part V) and (Part XIV)
Sample Quantity	1 No
Equipment used for Sampling	RDS Sampler S.No:2000-DTC-2016
Analysis Started on	24.08.2024
Analysis Completed on	02.09.2024

Environmental Condition	
Relative Humidity	64%
Ambient Temperature	33°C
Wind Direction	SW
Weather Condition	Clear Sky

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	32.5	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	69.8	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	14.2	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	28.7	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	37.5	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	UDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	24.5	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(M:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-



For Chennai Testing Laboratory Pvt Ltd
 Authorised Signatory
G. NANDAN
 Head - Environment Division
 (CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-20100/2024-25 & 02-09-2024
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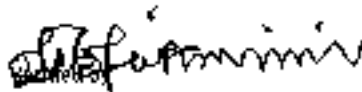
SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SUP/ANR/25-2016	ug/m ³	BDL(DL:0.01)	

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 026(E) dated 18.11.2009.

BDL - Below Detection Limit(DL - Detection Limit)

END OF REPORT

For Chennai Testing Laboratory Pvt. Ltd



Authorised Signatory

Page 2 of 2

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

CIN : U93000TN2000PTC043669

TEST REPORT

Test Report No & Date	CTL/CH/N-28101/2024-25 & 02.09.2024
Sample Number	N-28101/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyappatti Post, Manapparai Taluk, Tranche Estate - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Ambient Air
Sample Description	Ambient Air Quality Monitoring
Sampling Location	MALAYA GOUNDER HOUSE, PERIYAPPATI VILLAGE
Sample Drawn on	21.08.2024 & 08:40 to 22.08.2024 & 08:40
Sample Received on	24.08.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity	1 No
Equipment used for Sampling	RDS Sampler S.No: 2610-DTI-2019
Analysis Started on	24.08.2024
Analysis Completed on	02.09.2024

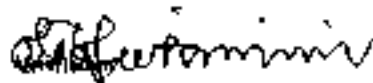
Environmental Condition	
Relative Humidity	64%
Ambient Temperature	33°C
Wind Direction	SW
Weather Condition	Clear Sky

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQs*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	15.9	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	41.8	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	5.2	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	10.8	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	16.7	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	8.7	100
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	-

For Chennai Testing Laboratory Pvt Ltd



 Authorised Signatory
G. MANIKANDAN
 Head - Environmental Division
 (CHEMICAL)

Page 1 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

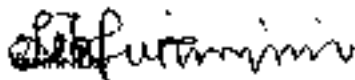
Test Report No & Date	CTL/CH/N-28101/2024-25 & 02.09.2024
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SL NO	PARAMETERS	METHODS	UNITS	RESULTS	MAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	ug/m ³	BDL(DL:0.01)	


*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.O. 626(E) dated 18.11.2009

BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT



For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory

G. S. NIKANDAN
 Head - Environment Division
 (CHEMICAL)

Page 2 of 2

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CIN U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-2B102/2024-25 & 02.09.2024
Sample Number N-2B102/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Penyapatu Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality Monitoring
Sampling Location SHANMUGAM, PADHIRIPATTI
Sample Drawn on 21.08.2024 & 08.25 to 22.08 2024 & 08.25
Sample Received on 24.08.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S No:2613-DTI-2019
Analysis Started on 24.08.2024
Analysis Completed on 02.09.2024

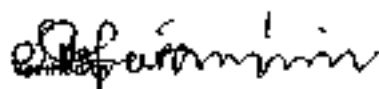
Environmental Condition

Relative Humidity 64%
Ambient Temperature 33°C
Wind Direction SW
Weather Condition Clear Sky

Test Results

The above sample tested as received, and results are as follows.

SLNO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 21 - 2019	µg/m ³	17.2	60
2	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	43.6	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	5.9	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	13.2	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	12.6	100
6	LEAD (Pb)	IS 5182 PART 23 - 2006 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	µg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	9.5	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	µg/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	µg/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	µg/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	RDL(DL:6.0)	-



For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory

G. MANIKANDAN

Head - Environmental Division
(CHEMICAL)

Page 1 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

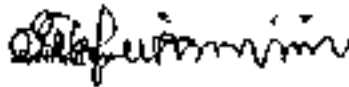
Test Report No & Date	CTL/CH/N-20102/2024-25 & 02.09.2024
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SL.NO	PARAMETERS	METHODS	LIMITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	ng/m ³	BDL(DL:0.01)	.

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. B26(E) Dated 16.11.2009.

BDL - Below Detection Limit(DL - Detection Limit)

END OF REPORT



For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 2 of 2

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-28103/2024-25 & 02.09.2024
Sample Number N-28103/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - INIT II,
Address Mundipatti Village, K.Puriyapatti Post, Minapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality Monitoring
Sampling Location ARUMUGAM GOUNDER, PODUVARPATTI
Sample Drawn on 21.08.2024 & 08.10 to 22.08.2024 & 08.10
Sample Received on 24.08.2024
Sampling Plan & Procedure CTL/QSP/E-89 & IS 5102 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S No 2245-DTK-2017
Analysis Started on 24.08.2024
Analysis Completed on 02.09.2024

Environmental Condition

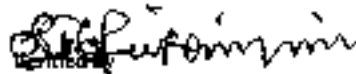
Relative Humidity 64%
Ambient Temperature 33°C
Wind Direction SW
Weather Condition Clear Sky

Test Results:

The above sample tested as received, and results are as follows:

SLNO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5102 Part 24 - 2019	µg/m ³	21.4	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5102 Part 23 - 2006 (R.2017)	µg/m ³	47.2	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5102 Part 2 - 2001 (R.2017)	µg/m ³	6.5	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5102 Part 6 - 2006 (R.2017)	µg/m ³	12.3	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	14.5	180
6	LEAD (Pb)	IS 5102 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	µg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	IS 5102 Part 25 - 2018	µg/m ³	9.3	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	µg/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	IS 5102 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5102 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5102 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5102 PART 07 - 2021	µg/m ³	BDL(DL:0.0)	-

For Chennai Testing Laboratory Pvt Ltd



Authorised Signatory
G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

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Phone : +91-44-2250 1757 / E-mail : chennaiesting@chennaiestinglab.com www.ctlabs.in

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/M-28103/2024-25 & 02.09.2024
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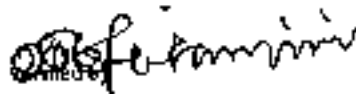
SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	µg/m ³	BDL(DL-0.01)	-

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 026(E) dated 10.11.2009

BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd



Authorised Signatory

G. MANIKANDAN
Head - Environment Division
(Chennai, Tamil Nadu)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-29762/2024-25 & 03.10.2024
Sample Number N-29762/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality Monitoring
Sampling Location BACKSIDE OF WORK SHOP (NEAR COMPOUND WALL)
Sample Drawn on 18.09.2024 & 10.05 to 19.09.2024 @ 10.05
Sample Received on 22.09.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2245-DTK-2017
Analysis Started on 23.09.2024
Analysis Completed on 03.10.2024


Environmental Condition
Relative Humidity 64%
Ambient Temperature 33°C
Wind Direction SW
Weather Condition Clear Sky

Test Results:
 The above sample tested as received, and results are as follows:
DISCIPLINE : CHEMICAL
GROUP : ATMOSPHERIC POLLUTION

SLNO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM ₁₀)	IS 5182 (Part 24)	µg/m ³	29.0	60
2	PARTICULATE MATTER (PM _{2.5})	IS 5182 (Part 23)	µg/m ³	66.3	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 (Part 2)	µg/m ³	10.9	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 (Part 6)	µg/m ³	21.6	80
5	OZONE (O ₃)	CTL/SOP/AIR/08	µg/m ³	42.5	180
6	LEAD (Pb)	IS 5182 (Part 22)	µg/m ³	BLQ(LOQ:0.05)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23	mg/m ³	BLQ(LOQ:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 (Part 25)	µg/m ³	22.6	100
9	ARSENIC (As)	CTL/SOP/AIR/06	ng/m ³	BLQ(LOQ:1.0)	6
10	NICKEL (Ni)	IS 5182 (Part 26)	ng/m ³	BLQ(LOQ:2.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 (Part 11)	µg/m ³	BLQ(LOQ:1.0)	5
12	BENZO(a)PYRENE	IS 5182 (Part 12)	ng/m ³	BLQ(LOQ:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07	µg/m ³	BLQ(LOQ:6.0)	


 Verified by

For Chennai Testing Laboratory Pvt Ltd


 Authorised Signatory
G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

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TEST REPORT

Test Report No & Date	CTL/CH/N-29762/2024-25 & 03.10.2024
-----------------------	-------------------------------------

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25	µg/m ³	BLQ(LOQ:0.03)	.

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R.826(E) dated 19.11.2009.

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification:

*****END OF REPORT*****


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For Chennai Testing Laboratory Pvt Ltd


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Page 0 of 0

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

TEST REPORT

Test Report No & Date CTL/CH/N-29761/2024-25 & 03.10.2024
Sample Number N-29761/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality Monitoring
Sampling Location FACTORY CANTEN BUILDING
Sample Drawn on 18.09.2024 & 09.50 to 19.09.2024 & 09.50
Sample Received on 22.09.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2610-DTI-2019
Analysis Started on 23.09.2024
Analysis Completed on 03.10.2024

Environmental Condition
Relative Humidity 64%
Ambient Temperature 33°C
Wind Direction SW
Weather Condition Clear Sky

Test Results:

The above sample tested as received, and results are as follows.

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	MAAQST
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 (Part 24)	µg/m ³	32.5	60
2	PANICULATE MATTER (PM ₁₀)	IS 5182 (Part 23)	µg/m ³	66.7	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 (Part 2)	µg/m ³	14.2	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 (Part 6)	µg/m ³	27.3	80
5	OZONE (O ₃)	CTL/SOP/AIR/08	µg/m ³	38.6	180
6	LEAD (Pb)	IS 5182 (Part 22)	µg/m ³	BLQ(LOQ:0.05)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23	mg/m ³	BLQ(LOQ:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 (Part 25)	µg/m ³	20.5	400
9	ARSENIC (As)	CTL/SOP/AIR/06	ng/m ³	BLQ(LOQ:1.0)	6
10	NICKEL (Ni)	IS 5182 (Part 26)	µg/m ³	BLQ(LOQ:2.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 (Part 11)	µg/m ³	BLQ(LOQ:1.0)	5
12	BENZO(a)PYRENE	IS 5182 (Part 12)	ng/m ³	BLQ(LOQ:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07	µg/m ³	BLQ(LOQ:6.0)	-

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For Chennai Testing Laboratory Pvt Ltd

G. MANIMARANJAN
 Head - Environmental Division
 (CHEMICAL)

Page 1 of 2

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TEST REPORT

Test Report No & Date	CTL/CH/N-29761/2024-25 & 03.10.2024
-----------------------	-------------------------------------

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25	µg/m ³	BLQ(LOQ:0.01)	-

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 18.11.2009.

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification;

END OF REPORT


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For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 2 of 2

CIN : U93000TN2000PTC043869

TC - 14314

TEST REPORT

Test Report No & Date CTL/CH/N-29765/2024-25 & 03.10.2024
Sample Number N-29765/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipath Village, K.Periyapatti Post, Manapparal Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality Monitoring
Sampling Location GUEST HOUSE
Sample Drawn on 19.09.2024 & 11.40 to 20.09.2024 & 11.40
Sample Received on 22.09.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2000-DTC-2016
Analysis Started on 23.09.2024
Analysis Completed on 03.10.2024

Environmental Condition

Relative Humidity 62%
Ambient Temperature 34°C
Wind Direction SW
Weather Condition Clear Sky

Test Results:

The above sample tested as received, and results are as follows.

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SLNO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 (Part 24)	µg/m ³	27.0	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 (Part 23)	µg/m ³	61.0	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 (Part 2)	µg/m ³	11.0	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 (Part 6)	µg/m ³	21.6	80
5	OZONE (O ₃)	CTL/SOP/AIR/08	µg/m ³	23.8	180
6	LEAD (Pb)	IS 5182 (Part 22)	µg/m ³	BLQ(LOQ:0.05)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23	mg/m ³	BLQ(LOQ:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 (Part 25)	µg/m ³	16.5	400
9	ARSENIC (As)	CTL/SOP/AIR/06	ng/m ³	BLQ(LOQ:1.0)	6
10	NICKEL (Ni)	IS 5182 (Part 26)	ng/m ³	BLQ(LOQ:2.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 (Part 11)	µg/m ³	BLQ(LOQ:1.0)	5
12	BENZO(a)PYRENE	IS 5182 (Part 12)	ng/m ³	BLQ(LOQ:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07	µg/m ³	BLQ(LOQ:6.0)	-

For Chennai Testing Laboratory Pvt Ltd


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Authorized Signatory

G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

Page 1 of 2

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TEST REPORT

Test Report No & Date	CTL/CH/N-29765/2024-25 & 03.10.2024
----------------------------------	--

SLNO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25	µg/m ³	BLQ(LOQ-0.01)	.

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 026(E) dated 10.11.2009.

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification.

*****END OF REPORT*****


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G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 2 of 2

CIN : U03000TN2000PTC043869

TC - 14314

TEST REPORT

Test Report No & Date	CTL/CH/N-29766/2024-25 & 03.10.2024
Sample Number	N-29766/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Monlipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Ambient Air
Sample Description	Ambient Air Quality Monitoring
Sampling Location	THIRU. KANDASAMY HOUSE, PONGUDIPATTI (8 METER ROAD JUNCTION, OUTSIDE OF COMPOUND WALL)
Sample Drawn on	19.09.2024 & 12.05 to 20.09.2024 & 12.05
Sample Received on	22.09.2024
Sampling Plan & Procedure	CTL/QSP/P-09 & IS 5182 (Part V) and (Part XV)
Sample Quantity	1 No
Equipment used for Sampling	RDS Sampler S.No:2613-DT-2019
Analysis Started on	23.09.2024
Analysis Completed on	03.10.2024
Environmental Condition	
Relative Humidity	64%
Ambient Temperature	33°C
Wind Direction	SW
Weather Condition	Clear Sky

Test Results

The above sample tested as received, and results are as follows.

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SL NO	PARAMETERS	METHODS	UNITS	RESULTS	MAAQ5*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 (Part 24)	µg/m ³	21.7	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 (Part 23)	µg/m ³	51.6	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 (Part 2)	µg/m ³	9.6	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 (Part 6)	µg/m ³	19.2	80
5	OZONE (O ₃)	CTL/SOP/AIR/08	µg/m ³	26.5	180
6	LEAD (Pb)	IS 5182 (Part 22)	µg/m ³	BLQ(LOQ:0.05)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23	mg/m ³	BLQ(LOQ:1.15)	1
8	AMMONIA (NH ₃)	IS 5182 (Part 25)	µg/m ³	13.8	400
9	ARSENIC (As)	CTL/SOP/AIR/06	ng/m ³	BLQ(LOQ:1.0)	6
10	NICKEL (Ni)	IS 5182 (Part 26)	ng/m ³	BLQ(LOQ:2.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 (Part 11)	µg/m ³	BLQ(LOQ:1.0)	5
12	BENZO(a)PYRENE	IS 5182 (Part 12)	ng/m ³	BLQ(LOQ:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07	µg/m ³	BLQ(LOQ:6.0)	-

For Chennai Testing Laboratory Pvt Ltd

Verified by

Authorized Signatory

G. MANIKANDAN

Page 1 of 2

Head - Environment Division
(CHEMICAL)

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CIN - U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29766/2024-25 & 03.10.2024
----------------------------------	--

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25	ug/m ³	BLQ(LOQ 0.01)	

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 824(E) dated 18.11.2009.

BLQ - Below Limit of Quantification LOQ - Limit of Quantification

END OF REPORT


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For Chennai Testing Laboratory Pvt Ltd


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G. MANIKANDAN
Head - Environmental Division
(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29764/2024-25 & 03.10.2024
Sample Number	N-29764/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II
Address	Mondipatti Village, K.Penypatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Ambient Air
Sample Description	Ambient Air Quality Monitoring
Sampling Location	110KVA SUB-STATION (RIGHT SIDE 10METERS AWAY)
Sample Drawn on	18.09.2024 & 10.50 to 19.09.2024 & 10.50
Sample Received on	22.09.2024
Sampling Plan & Procedure	CTL/QSP/R-09 & IS 5182 (Part V) and (Part XIV)
Sample Quantity	1 No
Equipment used for Sampling	RDS Sampler S.No:2611-DT1-2019
Analysis Started on	23.09.2024
Analysis Completed on	03.10.2024
Environmental Condition	
Relative Humidity	64%
Ambient Temperature	33°C
Wind Direction	SW
Weather Condition	Clear Sky

Test Results:

The above sample tested as received, and results are as follows:

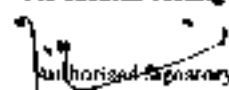
DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 (Part 24)	µg/m ³	36.5	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 (Part 23)	µg/m ³	79.5	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 (Part 2)	µg/m ³	18.5	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 (Part 6)	µg/m ³	35.7	80
5	OZONE (O ₃)	CTL/SOP/AIR/00	µg/m ³	44.0	180
6	LEAD (Pb)	IS 5182 (Part 22)	µg/m ³	BLQ(LOQ:0.05)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23	mg/m ³	BLQ(LOQ:1.15)	1
8	AMMONIA (NH ₃)	IS 5182 (Part 25)	µg/m ³	38.5	400
9	ARSENIC (As)	CTL/SOP/AIR/06	ng/m ³	BLQ(LOQ:1.0)	6
10	NICKEL (Ni)	IS 5182 (Part 26)	ng/m ³	BLQ(LOQ:2.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 (Part 11)	µg/m ³	BLQ(LOQ:1.0)	5
12	BENZO(a)PYRENE	IS 5182 (Part 12)	µg/m ³	BLQ(LOQ:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07	µg/m ³	BLQ(LOQ:6.0)	-

Verified by 

For Chennai Testing Laboratory Pvt Ltd


Authorized Signatory

Page 1 of 2

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

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CIN : U93000TN2000PTCO43569

TEST REPORT

Test Report No & Date	CTL/CH/N-29764/2024-25 & 03.10.2024
----------------------------------	--

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25	µg/m ³	BLQ(LOQ 0.01)	-


*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. B26(E) dated 18.11.2009

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification;

*****END OF REPORT*****


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For Chennai Testing Laboratory Pvt Ltd


Authorised Signatory
G. MANIKANDAN Page 2 of 2
Head - Environment Division
(CHEMICAL)

CIN : U93000TN2000PTC043869

TC - 14314

TEST REPORT

Test Report No & Date	CTL/CE/N-29763/2024-25 & 03.10.2024
Sample Number	N-29763/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II.
Address	Mondipani Village, K.Periyapatti Post, Manapparai Taluk, Tiruchy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Ambient Air
Sample Description	Ambient Air Quality Monitoring
Sampling Location	WEST ENTRANCE GATE (RIGHT SIDE 50 METERS AWAY FROM THE GATE, 10 METERS FROM COMPOUND WALL)
Sample Drawn on	18.09.2024 & 10.30 to 19.09.2024 & 10.30
Sample Received on	22.09.2024
Sampling Plan & Procedure	CTL/QSP/F-09 & IS 5182 (Part V) and (Part XIV)
Sample Quantity	1 No
Equipment used for Sampling	RDS Sampler S.No: 1985-DTD-2016
Analysis Started on	23.09.2024
Analysis Completed on	03.10.2024
Environmental Condition	
Relative Humidity	64%
Ambient Temperature	33°C
Wind Direction	SW
Weather Condition	Clear Sky

Test Results:

The above sample tested as received, and results are as follows:


DISCIPLINE : CHEMICAL
GROUP : ATMOSPHERIC POLLUTION

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 (Part 24)	µg/m ³	29.5	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 (Part 23)	µg/m ³	62.7	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 (Part 2)	µg/m ³	16.7	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 (Part 6)	µg/m ³	31.5	100
5	OZONE (O ₃)	CTL/SOP/AIR/06	µg/m ³	44.5	180
6	LEAD (Pb)	IS 5182 (Part 22)	µg/m ³	BLQ(LOQ:0.05)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23	mg/m ³	BLQ(LOQ:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 (Part 25)	µg/m ³	27	400
9	ARSENIC (As)	CTL/SOP/AIR/06	µg/m ³	BLQ(LOQ:1.0)	6
10	NICKEL (Ni)	IS 5182 (Part 26)	ng/m ³	BLQ(LOQ:2.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 (Part 11)	µg/m ³	BLQ(LOQ:1.0)	5
12	BENZO(a)PYRENE	IS 5182 (Part 12)	µg/m ³	BLQ(LOQ:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07	µg/m ³	BLQ(LOQ:6.0)	-



Verified by

For Chennai Testing Laboratory Pvt Ltd


 Authorised Signatory
G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

Page 1 of 2

 The Report shall not be used to malign, defame and for any malicious purpose.
 The Report is meant only for sole use of the addressee to promote better business.

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com www.cctlabs.in

CIN U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29763/2024-25 & 03.10.2024
-----------------------	-------------------------------------

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25	µg/m ³	BEQ(LOQ:0.01)	-

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 10.11.2002.

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification.

END OF REPORT


 Verified by

For Chennai Testing Laboratory Pvt Ltd


 Authorised Signatory

G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

Page 2 of 2

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A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032. Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com www.ctllabs.in

CIN : U53000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-29767/2024-25 & 03.10.2024
Sample Number N-29767/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality Monitoring
Sampling Location MALAYA GOUNDER HOUSE, PERIYAPPATI VILLAGE
Sample Drawn on 19.09.2024 & 12.40 to 20.09.2024 & 12.40
Sample Received on 22.09.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:1985-DTD-2016
Analysis Started on 23.09.2024
Analysis Completed on 03.10.2024

Environmental Condition

Relative Humidity 64%
Ambient Temperature 33°C
Wind Direction SW
Weather Condition Clear Sky

Test Result:

The above sample tested as received and results are as follows:

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	MAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 (Part 24)	µg/m ³	17.2	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 (Part 23)	µg/m ³	47.6	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 (Part 2)	µg/m ³	6.7	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 (Part 6)	µg/m ³	12.5	80
5	OZONE (O ₃)	CTL/SOP/AIR/08	µg/m ³	21.5	180
6	LEAD (Pb)	IS 5182 (Part 22)	µg/m ³	BLQ(LOQ:0.05)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23	mg/m ³	BLQ(LOQ:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 (Part 25)	µg/m ³	9.2	400
9	ARSENIC (AS)	CTL/SOP/AIR/06	ng/m ³	BLQ(LOQ:1.0)	6
10	NICKEL (NI)	IS 5182 (Part 26)	ng/m ³	RIQ(LOQ:2.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 (Part 11)	µg/m ³	BLQ(LOQ:1.0)	5
12	BENZO(a)PYRENE	IS 5182 (Part 12)	ng/m ³	BLQ(LOQ:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07	µg/m ³	BLQ(LOQ:6.0)	-

For Chennai Testing Laboratory Pvt Ltd


Verified by

Authorized Signatory

Page 1 of 2

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

The Report should not be used in court, and it is not to be used as evidence.
 The Report is valid only for the use of the address mentioned on this report.

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com www.ctllabs.in

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29767/2024-25 & 03.10.2024
----------------------------------	--

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25	µg/m ³	BLQ (LOQ=0.01)	-

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 16.11.2009.

BLQ - Below Limit of Quantification, LOQ - Limit of Quantification.

*****END OF REPORT*****



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For Chennai Testing Laboratory Pvt.Ltd

Authorized Signatory

G. BHASKARAN
Head - Environment Division
(CHEMICAL)

Page 2 of 2

CIN : U93000TN2000PTC045869

TEST REPORT

Test Report No & Date: **CTL/CH/N-29768/2024-25 & 03.10.2024**
 Sample Number: **N-29768/24-25**
 Name of the Customer: **M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,**
 Address: **Moodipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.**

Sample Drawn by: **Laboratory**
 Sample Name: **Ambient Air**
 Sample Description: **Ambient Air Quality Monitoring**
 Sampling Location: **SHANMUGAM, PADHIRIPATTI**
 Sample Drawn on: **20.09.2024 & 13.20 to 21.09.2024 & 13.20**
 Sample Received on: **22.09.2024**
 Sampling Plan & Procedure: **CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)**
 Sample Quantity: **1 No**
 Equipment used for Sampling: **RDS Sampler S.No:2245-DTK-2017**
 Analysis Started on: **23.09.2024**
 Analysis Completed on: **03.10.2024**

Environmental Condition

Relative Humidity: **64%**
 Ambient Temperature: **33°C**
 Wind Direction: **SW**
 Weather Condition: **Clear Sky**

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SLNO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM ₁₀)	IS 5102 (Part 24)	µg/m ³	20.6	60
2	PARTICULATE MATTER (PM _{2.5})	IS 5182 (Part 23)	µg/m ³	51.5	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 (Part 2)	µg/m ³	7.1	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 (Part 6)	µg/m ³	14.5	80
5	OZONE (O ₃)	CTL/SOP/AIR/09	µg/m ³	16.0	180
6	LEAD (Pb)	IS 5182 (Part 22)	µg/m ³	BLQ(LOQ:0.05)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23	mg/m ³	BLQ(LOQ:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 (Part 25)	µg/m ³	10.2	400
9	ARSENIC (As)	CTL/SOP/AIR/06	µg/m ³	BLQ(LOQ:1.0)	6
10	NICKEL (Ni)	IS 5182 (Part 26)	µg/m ³	BLQ(LOQ:2.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 (Part 11)	µg/m ³	BLQ(LOQ:1.0)	5
12	BENZO(a)PYRENE	IS 5182 (Part 12)	µg/m ³	BLQ(LOQ:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07	µg/m ³	BLQ(LOQ:6.0)	-

Verified by: 

For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory
G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

Page 1 of 2

The Report shall not be used to claim, dispute and for any litigation purpose
 The Report is valid only for the use of the addressee to dispute whether own business

A - Super 19, T.V.K. Industrial Estate, Gundy, Chennai - 600 032, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com www.ctilabs.in

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29768/2024-25 & 03.10.2024
-----------------------	-------------------------------------

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25	$\mu\text{g}/\text{m}^3$	BLQ(LOQ:0.01)	.

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 18.11.2009

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification:

END OF REPORT


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For Chennai Testing Laboratory Pvt Ltd


Authorised Signatory

Page 2 of 2

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-29769/2024-25 & 03.10.2024
Sample Number N-29769/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipattu Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality Monitoring
Sampling Location ARUMUGAM GOUNDER, PODUVARPATTI
Sample Drawn on 20.09.2024 & 13.55 to 21.09.2024 & 13.55
Sample Received on 22.09.2024
Sampling Plan & Procedure CTL/QSP/F-HY & IS 5182 (Part VI) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling RDS Sampler S.No:2611-DTI-2019
Analysis Started on 23.09.2024
Analysis Completed on 03.10.2024

Environmental Condition
Relative Humidity 64%
Ambient Temperature 33°C
Wind Direction SW
Weather Condition Clear Sky

Test Results:
 The above sample tested as received, and results are as follows

DISCIPLINE: CHEMICAL
GROUP : ATMOSPHERIC POLLUTION

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 (Part 24)	µg/m ³	24.0	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 (Part 23)	µg/m ³	53.8	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 (Part 2)	µg/m ³	7.2	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 (Part 6)	µg/m ³	13.0	80
5	OZONE (O ₃)	CTL/SOP/AIR/08	µg/m ³	12.5	180
6	LEAD (Pb)	IS 5182 (Part 22)	µg/m ³	BLQ(LOQ:0.05)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23	mg/m ³	BLQ(LOQ:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 (Part 25)	µg/m ³	8.7	400
9	ARSENIC (As)	CTL/SOP/AIR/06	µg/m ³	BLQ(LOQ:1.0)	6
10	NICKEL (Ni)	IS 5182 (Part 26)	µg/m ³	BLQ(LOQ:2.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 (Part 11)	µg/m ³	BLQ(LOQ:1.0)	5
12	BENZO(a)PYRENE	IS 5182 (Part 14)	µg/m ³	BLQ(LOQ:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07	µg/m ³	BLQ(LOQ:6.0)	-


 Verified by

For Chennai Testing Laboratory Pvt Ltd


 Authorised Signatory

G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

Page 1 of 3

*The Report shall not be used to rectify, delay and for any malicious purpose.
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A - Super 19, T.V.K. Industrial Estate, Gundy, Chennai - 600 032, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennai@testinglab.com www.ctlabs.in

TEST REPORT

Test Report No & Date	CTL/CH/N-29769/2024-25 & 03.10.2024
-----------------------	-------------------------------------

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25	µg/m ³	BLQ(LOQ:0.01)	

* National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. B24(b) dated 18.11.2009.

BLQ - Below Limit of Quantification, LOQ - Limit of Quantification.

END OF REPORT



Verified by

For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory

Page 2 of 2

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Tamilnadu Newsprint and Papers Limited UNIT II

Online Power Boiler Stack Monitoring - April 2024

Date	STACK-CO (mg/Nm ³)	STACK-Nox (mg/Nm ³)	STACK-PM (mg/Nm ³)	STACK-SO ₂ (mg/Nm ³)
01-04-2024	2.17	86.61	20.81	72.96
02-04-2024	2.18	88.2	21.18	74.23
03-04-2024	2.15	85.21	20.49	71.84
04-04-2024	2.26	93.91	22.52	79.04
05-04-2024	2.39	102.47	24.52	86.15
06-04-2024	2.31	97.4	23.33	81.86
07-04-2024	2.16	86.79	20.85	73.09
08-04-2024	2.21	90.31	21.67	75.97
09-04-2024	2.17	86.87	20.88	73.21
10-04-2024	2.27	95.1	20.91	79.9
11-04-2024	2.29	96.07	19.8	80.97
12-04-2024	2.11	83.01	15.69	82.96
13-04-2024	1.94	69.88	11.39	65.59
14-04-2024	1.97	72.16	13.29	60.85
15-04-2024	1.94	70.05	14.91	59.11
16-04-2024	1.94	69.15	17.11	58.42
17-04-2024	1.75	55.88	19.62	47.18
18-04-2024	1.94	70.44	20.79	59.56
19-04-2024	1.94	70.42	23.33	59.35
20-04-2024	1.87	64.36	20.5	54.41
21-04-2024	1.95	70.36	17.82	59.41
22-04-2024	1.92	69.12	17.51	58.3
23-04-2024	1.91	66.9	16.98	56.5
24-04-2024	1.86	63.77	16.71	53.86
25-04-2024	1.91	67.1	17.03	56.66
26-04-2024	1.96	70.8	17.93	59.79
27-04-2024	1.97	72.09	18.24	60.8
28-04-2024	1.94	69.17	17.52	58.33
29-04-2024	1.85	63.72	16.2	53.9
30-04-2024	1.83	65.1	16.53	54.97
Max	2	102	25	86
Min	2	56	11	47
Avg	2	77	19	66

B. B. B.
Manager (Tech)
Energy

S. S. S.
SM (Inst)
Energy Dept.



**GENERAL MANAGER
R&D AND QC**

**TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K. PERIYAPATTI (PO),
MANAPPARAI (TK.), TRICHY (DT)-621306.**

Tamilnadu Newsprint and Papers Limited UNIT II				
Online Power Boiler Stack Monitoring - May'2024				
Date	STACK-CO (mg/Nm ³)	STACK-Nox (mg/Nm ³)	STACK-PM (mg/Nm ³)	STACK-SO2 (mg/Nm ³)
01-05-2024	1.94	69.69	17.65	58.73
02-05-2024	1.97	72.43	18.33	61.19
03-05-2024	1.94	70.08	17.75	59.15
04-05-2024	1.99	71.97	18.42	61.43
05-05-2024	1.99	72.66	18.38	61.3
06-05-2024	1.96	71.76	18.16	60.56
07-05-2024	1.98	73	18.45	61.5
08-05-2024	1.95	70.77	17.92	59.72
09-05-2024	1.94	69.27	17.56	58.54
10-05-2024	1.98	71.01	18.22	60.72
11-05-2024	1.97	71.5	18.1	60.34
12-05-2024	1.93	68.98	17.47	58.13
13-05-2024	1.84	62.03	15.79	52.46
14-05-2024	1.88	65.39	16.6	55.22
15-05-2024	1.9	66.6	16.91	56.28
16-05-2024	1.9	66.55	16.88	56.12
17-05-2024	1.75	55.84	14.27	47.27
18-05-2024	1.9	66.86	12.69	56.45
19-05-2024	1.92	67.72	8.46	57.24
20-05-2024	1.93	68.96	10.99	58.28
21-05-2024	1.96	69.71	13.14	59.96
22-05-2024	1.97	72.38	14.92	61.05
23-05-2024	1.96	70.56	15.3	59.58
24-05-2024	1.91	67.76	17.44	57.2
25-05-2024	1.91	68.28	12.55	57.6
26-05-2024	1.86	63.71	7.58	53.79
27-05-2024	1.8	59.44	7.11	50.25
28-05-2024	1.87	64.61	10.37	54.58
29-05-2024	1.87	63.97	11.93	54.05
30-05-2024	1.91	67.08	12.48	56.62
31-05-2024	1.92	68.1	12.67	57.53
Max	2	73	18	62
Min	2	56	7	47
AVG	2	68	15	58

B. B. K.
Energy (mech)

Ranjith
SMES
Energy Dept.



GENERAL MANAGER
R&D AND QC
TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K. PERRAMPATTI (PO),
MANAPPARAI (TK), TRICHY (DT)-621306.

Tamilnadu Newsprint and Papers Limited UNIT II				
Online Power Boiler Stack Monitoring - June'2024				
Date	STACK-CO (mg/Nm³)	STACK-MOX (mg/Nm³)	STACK-PM (mg/Nm³)	STACK-SO2 (mg/Nm³)
01-06-2024	1.92	68.05	12.66	57.47
02-06-2024	1.92	68.24	12.69	57.53
03-06-2024	1.89	65.74	12.26	55.58
04-06-2024	1.85	62.8	11.73	53.05
05-06-2024	1.93	68.18	12.69	57.57
06-06-2024	1.9	67.06	12.47	56.48
07-06-2024	1.88	65.26	12.18	55.23
08-06-2024	1.94	69.88	12.98	58.95
09-06-2024	1.91	67.92	12.64	57.32
10-06-2024	1.93	69.94	12.82	58.23
11-06-2024	1.91	67.7	12.59	57.08
12-06-2024	1.91	68.26	12.7	57.61
13-06-2024	1.96	70.74	13.15	59.88
14-06-2024	1.95	70.44	13.09	59.43
15-06-2024	1.8	59.53	11.14	50.23
16-06-2024	1.78	57.93	10.86	48.97
17-06-2024	1.8	58.88	11.04	49.87
18-06-2024	1.89	65.83	12.26	55.55
19-06-2024	1.82	61.07	11.41	51.52
20-06-2024	2.22	90.39	13.57	61.97
21-06-2024	3	149.4	20.43	93.93
22-06-2024	2.35	100.79	13.94	63.24
23-06-2024	2.18	87.87	12.24	55.43
24-06-2024	2.26	93.95	13.05	59.3
25-06-2024	2.27	94.8	13.16	59.82
26-06-2024	2.29	96.39	13.37	60.77
27-06-2024	2.22	91.11	12.67	57.51
28-06-2024	2.3	97.15	13.47	61.28
29-06-2024	2.25	93.33	12.97	58.84
30-06-2024	2.31	98.15	13.6	61.88
Max	3	149	20	94
Min	2	58	11	49
Avg	2	78	13	58

B. B. B. B.
Manager (Tech)
Energy

S. M. S.
SM (ES)
Energy Dept.

[Signature]
GENERAL MANAGER
R&D AND QC
TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K. PERIYAPATTI (PO),
MANAPPARAI (TK.), TRICHY (DT)-621308.

Tamilnadu Newsprint and Papers Limited UNIT II

Online Power Boiler Stack Monitoring - July'2024

Date	STACK-CO (mg/Nm ³)	STACK-Nox (mg/Nm ³)	STACK-PM (mg/Nm ³)	STACK-SO2 (mg/Nm ³)
01-07-2024	2.3	96.82	13.43	61.08
02-07-2024	2.01	75.75	10.61	47.76
03-07-2024	2.26	93.96	13.05	59.26
04-07-2024	1.55	40.32	9.56	25.54
05-07-2024	1.54	40.13	14.07	25.5
06-07-2024	1.56	41.19	14.45	26.31
07-07-2024	1.71	52.36	18.16	33.26
08-07-2024	1.67	49.94	17.35	31.72
09-07-2024	1.81	59.67	17.38	37.84
10-07-2024	1.83	61.6	16.03	39.01
11-07-2024	1.99	73.46	18.99	46.5
12-07-2024	1.8	60.19	15.33	38
13-07-2024	1.77	58.69	14.74	36.42
14-07-2024	1.82	60.93	15.83	38.41
15-07-2024	1.63	46.65	12.28	29.58
16-07-2024	1.58	42.73	11.33	27.32
17-07-2024	1.73	54.32	14.21	34.46
18-07-2024	2	53.01	12.91	35.25
19-07-2024	9.65	21.5	14.59	116.47
20-07-2024	8.74	19.46	13.18	104.99
21-07-2024	8.69	19.32	13.11	104.42
22-07-2024	8.9	28.34	13.43	125.31
23-07-2024	8.3	43.98	12.54	151.92
24-07-2024	8.55	53.82	12.89	170.3
25-07-2024	8.11	59.65	12.27	198.71
26-07-2024	10.95	80.73	16.5	292.25
27-07-2024	9.27	68.14	14.02	246.43
28-07-2024	7.99	61	12.09	211.9
29-07-2024	7.87	72.62	10.32	221.6
30-07-2024	7.98	69.99	13.08	239.82
31-07-2024	7.83	68.58	15.64	235.04
Max	11	97	19	292
Min	2	19	10	26
Avg	5	56	14	100

B. Bala
Manager (Mech)
Energy

Sanjiv Kumar
SM (II)
Energy Dept.

E. Pradeep
GENERAL MANAGER
R&AO QC
TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K.PERIYAPATTI (PO),
MANAPPARAI (TK.), TRICHY (DT)-621306.

Tamilnadu Newsprint and Papers Limited UNIT II				
Online Power Boiler Stack Monitoring - Aug'2024				
Date	STACK-CO (mg/Nm ³)	STACK-NOx (mg/Nm ³)	STACK-PM (mg/Nm ³)	STACK-SO ₂ (mg/Nm ³)
01-08-2024	7.79	68.27	15.53	233.71
02-08-2024	8.27	72.64	16.55	249.01
03-08-2024	8.22	72.12	16.37	246.94
04-08-2024	9.62	84.77	19.29	290.94
05-08-2024	8.69	76.18	17.3	260.99
06-08-2024	8.06	74.71	17.07	211.12
07-08-2024	5.08	65.03	15.09	145.73
08-08-2024	54.59	27.29	14.37	129.46
09-08-2024	19.69	36.41	16.22	98.7
10-08-2024	0.2	48.3	12.82	83.51
11-08-2024	0.28	57.36	14.64	97.95
12-08-2024	0.2	86.42	16.81	130.66
13-08-2024	1.62	36.47	15.19	57.12
14-08-2024	0.2	39.82	16.73	42.92
15-08-2024	9.65	44.95	15.87	40.34
16-08-2024	2.64	61.39	16.55	43.37
17-08-2024	0.2	36.3	15.51	76.16
18-08-2024	21.55	31.58	16.07	102.98
19-08-2024	7.2	51.36	17.13	79.29
20-08-2024	0.2	63.28	14.24	72.12
21-08-2024	0.24	116.55	14.71	100.37
22-08-2024	0.21	80.02	15.18	97.81
23-08-2024	0.2	89.58	16.24	125.9
24-08-2024	0.2	90.18	15.05	137.68
25-08-2024	0.2	95.99	14.57	117.32
26-08-2024	0.2	84.25	14.93	125.89
27-08-2024	0.2	105.34	15.31	75.93
28-08-2024	0.2	118.76	15.25	54.32
29-08-2024	0.2	130.08	16.7	160.71
30-08-2024	0.2	134.17	17.18	165.7
31-08-2024	0.19	132.64	17	163.83
Max	55	134	19	291
Min	0	27	13	40
Avg	6	75	16	120

B. B. B.
Manager (Mech)
Energy

S. S. S.
SM-Env
Energy



GENERAL-MANAGER
R&D AND QC
TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K.PERIYAPATTI (PO),
MANAPPARAI (TK.), TRICHY (DT)-621308.

Tamilnadu Newsprint and Papers Limited UNIT II

Online Power Boiler Stack Monitoring - Sep'2024

Date	STACK-CO (mg/Nm ³)	STACK-Nox (mg/Nm ³)	STACK-PM (mg/Nm ³)	STACK-SO ₂ (mg/Nm ³)
01-09-2024	0.2	143.29	18.36	177.11
02-09-2024	0.24	113.61	23.52	125.08
03-09-2024	0.58	93.46	21.6	82.82
04-09-2024	0.35	94.06	21.23	107.87
05-09-2024	5.92	88.65	21.75	160.38
06-09-2024	7.05	61.65	20.72	96.02
07-09-2024	20.05	48.75	21.6	78.12
08-09-2024	5.34	43.07	20.3	171.07
09-09-2024	5.9	39.95	20.67	199.35
10-09-2024	1.66	47.6	19.11	155.49
11-09-2024	1.45	98.82	20.3	143.73
12-09-2024	6.3	31.8	21.46	59.93
13-09-2024	6.22	34.85	21.26	59.18
14-09-2024	9.32	32.31	21.08	72.37
15-09-2024	2.74	27.05	19.42	103.24
16-09-2024	8.17	29.29	19.32	91.11
17-09-2024	8.32	31.1	21.06	55.84
18-09-2024	6	65.16	21.01	143.04
19-09-2024	3.33	78.97	17.51	194.84
20-09-2024	20.6	97.39	21.51	240.5
21-09-2024	17.73	98.38	21.73	242.99
22-09-2024	10.5	93.39	20.65	230.62
23-09-2024	11.62	94.91	20.99	234.41
24-09-2024	32.76	91.84	20.33	226.91
25-09-2024	25.68	73.28	20.63	198.92
26-09-2024	29.13	64.96	21.19	187.1
27-09-2024	45.18	64.93	21.25	212
28-09-2024	15.06	67.34	21.28	221.57
29-09-2024	19.29	70.74	20.23	199.91
30-09-2024	15.35	64.84	18.44	190.51
Max	45	143	24	243
Min	0	27	18	56
Avg	11	70	21	155

B. B. K.
Manager (Mech)
Energy

[Signature]
SM - Int
Energy

[Signature]
GENERAL MANAGER
R&D AND QC
TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, KPERIYAPATTI (PO),
MANAPPARAI (TK.), TRICHY (DT)-621305.

TEST REPORT

Test Report No & Date	CTL/CH/N-21512/2024-25 & 03.05.2024
Sample Number	N-21512/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mendipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Stack Emission
Sample Description	Stack Emission
Sampling Location	Stack attached with POWER BOILER
Sample Drawn on	26.04.2024
Sample Received on	27.04.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 11255
Sample Quantity	1 No
Equipment used for Sampling	Stack Kit 288 DTI 2020
Analysis Started on	27.04.2024
Analysis Completed on	03.05.2024

PHYSICAL PARAMETERS:

STACK HEIGHT (m)	100
STACK TEMPERATURE (K)	401.0
STACK VELOCITY (m/s)	12.3
STACK GAS FLOW RATE (Nm ³ /hr)	137059.9
DIAMETER OF STACK AT PORTHOLE (m)	3.4
*APCM STATUS AT THE TIME OF SAMPLING	ESP - ON Condition

Test Results:

The above sample tested as received, and results are as follows:

SLNO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS(as per EC condition)
1	OXIDES OF NITROGEN NO _x (as NO ₂)	IS 11255 PART 7 2005 (R 2017)	mg/Nm ³	121	**
2	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985 (R 2019)	mg/Nm ³	265	**
3	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985 (R 2019)	mg/Nm ³	24.1	50
4	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	ppm	32	**
5	CARBON DIOXIDE (CO ₂)		%	12.5	**
6	OXYGEN (O ₂)		%	8.0	**

* Air Pollution Control Measures

** Depending on the local situation, state pollution control board will prescribe the standards.

BDL - Below Detection Limit, D.L - Detection Limit

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

[Signature]
Checked by

This report shall not be used to make any claim, defence and for any other legal purpose. The Report is invalid only for the use of the addressee to promote his/her own business.

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, India

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chemtestindia.com

Authorized Signatory
G. M. NIRANJAN
Head, Environmental Division
(CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-22648/2024-25 & 30.05.2024
Sample Number N-22648/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Stack Emission
Sample Description Stack Emission Monitoring
Sampling Location Stack attached with POWER BOILER
Sample Drawn on 21.05.2024
Sample Received on 24.05.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 11255
Sample Quantity 1 No
Equipment used for Sampling Stack Kit 288 DTI 2020
Analysis Started on 24.05.2024
Analysis Completed on 30.05.2024

PHYSICAL PARAMETERS:

STACK HEIGHT (m) 100
STACK TEMPERATURE (K) 405.0
STACK VELOCITY (m/s) 12.0
STACK GAS FLOW RATE (Nm³/hr) 132821.5
DIAMETER OF STACK AT PORTHOLE (m) 3.4
***APCM STATUS AT THE TIME OF SAMPLING** ESP - ON Condition

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS(as per EC condition)
1	OXIDES OF NITROGEN NO _x (as NO ₂)	IS 11255 PART 7 2005 (R 2017)	mg/Nm ³	160	**
2	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985 (R 2019)	mg/Nm ³	236	**
3	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985 (R 2019)	mg/Nm ³	21.2	50
4	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	ppm	57	**
5	CARBON DIOXIDE (CO ₂)		%	10.7	**
6	OXYGEN (O ₂)		%	9.6	**

*Air Pollution Control Measures

**Depending on the local situation, state pollution control board will prescribe the standards.

BDL- Below Detection Limit, D.L- Detection Limit

*****END OF REPORT*****

For Chennai Testing Laboratory Pvt Ltd

Verified by 

The Report shall not be used to make any claim or for any legal or other purpose.
 This Report is valid only for the use of the addressee to generate further compliance.

Authorized Signatory

MANKANDAN

Head - Environment Division,
 CHEMICAL

Page 1 of 1

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennaitestlab@chennaitestlab.com www.cillabs.in

CIN U93006TN2000PTC043869

TEST REPORT

Test Report No & Date: CTI/CH/N-24941/2024-25 & 03.07.2024
Sample Number: N-24941/24-25
Name of the Customer: M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address: Mundipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by: Laboratory
Sample Name: Stack Emission
Sample Description: Stack Emission Monitoring
Sampling Location: Stack attached with POWER BOILER
Sample Drawn on: 25.06.2024
Sample Received on: 27.06.2024
Sampling Plan & Procedure: CTL/QSP/F-B9 & IS 11255
Sample Quantity: 1 No
Equipment used for Sampling: Stack Kit 288 DTI 2020
Analysis Started on: 27.06.2024
Analysis Completed on: 03.07.2024

PHYSICAL PARAMETERS:

STACK HEIGHT (m): 100
STACK TEMPERATURE (K): 420.0
STACK VELOCITY (m/s): 12.6
STACK GAS FLOWRATE (Nm³/hr): 113924.2
DIAMETER OF STACK AT PORTHOLE (m): 3.4
***APCN STATUS AT THE TIME OF SAMPLING:** ESP - ON Condition

Test Results:

The above sample tested as received, and results are as follows:

SL NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS (as per EC condition)
1	OXIDES OF NITROGEN (NO _x (as NO ₂))	IS 11255 PART 2 2005 (R 2017)	mg/Nm ³	147	**
2	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985 (R 2019)	mg/Nm ³	289	**
3	PARTICULATE MATTER (PM)	IS 11255 PART 1 1985 (R 2019)	mg/Nm ³	20.4	50
4	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	ppm	49	**
5	CARBON DIOXIDE (CO ₂)		%	11.6	**
6	OXYGEN (O ₂)		%	8.6	**

*Air Pollution Control Measures

**Depending on the local situation, state pollution control board will prescribe the standards.

BDL - Below Detection Limit, DL - Detection Limit

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd


Verified by


A. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 3 of 3

This Report shall not be used to malign, defame and/or any other person, firm or organization.
 The Report is valid only for the use at the address as provided in the Report.

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com www.ctilabs.in

CIN: U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-26964/2024-25 & 07.08.2024
Sample Number	N-26964/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II
Address	Mondiparti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Stack Emission
Sample Description	Stack Emission Monitoring
Sampling Location	Stack attached with POWER BOILER
Sample Drawn on	29.07.2024
Sample Received on	01.08.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 11255
Sample Quantity	1 No
Equipment used for Sampling	Stack Kit 288 DTI 2020
Analysis Started on	01.08.2024
Analysis Completed on	07.08.2024

PHYSICAL PARAMETERS:

STACK HEIGHT (m)	140
STACK TEMPERATURE (K)	406.0
STACK VELOCITY (m/s)	13.6
STACK GAS FLOW RATE (Nm ³ /hr)	149582.0
DIAMETER OF STACK AT PORTHOLE (m)	3.4
*APCM STATUS AT THE TIME OF SAMPLING	ESP - ON Condition

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS(as per EC condition)
1	OXIDES OF NITROGEN NO _x (as NO ₂)	IS 11255 PART 7 2005 (R 2017)	mg/Nm ³	97	**
2	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985 (R 2019)	mg/Nm ³	264	**
3	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985 (R 2019)	mg/Nm ³	16.8	50
4	CARBON MONOXIDE (CO)	CTL/SQP/STACK/10-2016 (Flue Gas Analyser)	ppm	10	**
5	CARBON DIOXIDE (CO ₂)		%	11.3	**
6	OXYGEN (O ₂)		%	9.6	**

*Air Pollution Control Measures


**Depending on the local situation, state pollution control board will prescribe the standards

BDL- Below Detection Limit, DL-Detection Limit

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd


Verified by


G. MANIKANDAN
Head, Environment Division
(CHEMICAL)

The Report shall not be valid to change its facts and figures unless the original is available. The Report is issued only for information. This report is not to be used for any other purpose.

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Page 1 of 1

TEST REPORT

Test Report No & Date CTL/CH/N-20111/2024-25 & 02.09.2024
Sample Number N-20111/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mandipatti Village, K.Periyapatti Post, Manapparal Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Stack Emission
Sample Description Stack Emission Monitoring
Sampling Location Stack attached with POWER BOILER
Sample Drawn on 21.08.2024
Sample Received on 24.08.2024
Sampling Plan & Procedure CTL/QSP/F-09 & IS 11255
Sample Quantity 1 No
Equipment used for Sampling Stack Kit 208 DTI 2020
Analysis Started on 24.08.2024
Analysis Completed on 02.09.2024

PHYSICAL PARAMETERS:

STACK HEIGHT (m) 100
STACK TEMPERATURE (K) 411.0
STACK VELOCITY (m/s) 13.5
STACK GAS FLOW RATE (Nm³/hr) 147395.0
DIAMETER OF STACK AT PORTHOLE (m) 3.4
***APCM STATUS AT THE TIME OF SAMPLING** ESP - On Condition

Test Results:

The above sample tested as received, and results are as follows.

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS(as per EC condition)
1	OXIDES OF NITROGEN NO _x (as NO ₂)	IS 11255 PART 7 2005 (R 2017)	ng/Nm ³	109	**
2	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985 (R 2019)	mg/Nm ³	247	**
3	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985 (R 2019)	mg/Nm ³	18.5	50
4	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	ppm	23	**
5	CARBON DIOXIDE (CO ₂)		%	11.5	**
6	OXYGEN (O ₂)		%	8.8	**

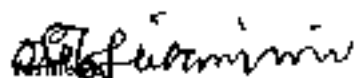
*Air Pollution Control Measures

**Depending on the local situation, state pollution control board will prescribe the standards.

BDL- Below Detection Limit, D.L-Detection Limit

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd



 This Report shall not be used through or for any other purpose
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A - Super 19, T.V.K Industrial Estate, Guindy, Chennai - 600 080, India

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiesting.com, www.ctilabs.in

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-29777/2024-25 & 03.10.2024
Sample Number N-29777/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II.
Address Mondipatri Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Stack Emission
Sample Description Stack Emission Monitoring
Sampling Location Stack attached with POWER BOILER
Sample Drawn on 19.09.2024
Sample Received on 22.09.2024
Sampling Plan & Procedure CTL/QSP/F 89 & IS 11255
Sample Quantity 1 No
Equipment used for Sampling Stack Kit 288 DTI 2020
Analysis Started on 23.09.2024
Analysis Completed on 03.10.2024

PHYSICAL PARAMETERS:

STACK HEIGHT (m) 100
STACK TEMPERATURE (K) 374.0
STACK VELOCITY (m/s) 13.0
STACK GAS FLOW RATE (Nm³/hr) 155845.3
DIAMETER OF STACK AT PORTHOLE (m) 3.4
***APCM STATUS AT THE TIME OF SAMPLING** ESP - ON Condition

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE - CHEMICAL

GROUP - ATMOSPHERIC POLLUTION

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS(as per EC condition)
1	OXIDES OF NITROGEN NO _x (as NO ₂)	IS 11255 (PART 7)	mg/Nm ³	152	**
2	SULPHUR DIOXIDE (SO ₂)	IS 11255 (PART 2)	mg/Nm ³	311	**
3	PARTICULATE MATTER(PM)	IS 11255 (PART 1)	mg/Nm ³	21.6	50
4	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10 (Flue Gas Analyser)	ppm	57	**
5	CARBON DIOXIDE (CO ₂)		%	10.9	**
6	OXYGEN (O ₂)		%	9.1	**

*Air Pollution Control Measures

**Depending on the local situation, state pollution control board will prescribe the standards.

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd


Verified by

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Page 1 of 1

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Tamilnadu Newsprint and Papers Limited UNIT II

Online Lime Kiln Stack Monitoring - April'2024

Date	Lime_Kiln- H2S(mg/Nm3)	Lime_Kiln- NOx(mg/Nm3)	Lime_Kiln- PM(mg/Nm3)	Lime_Kiln- SO2(mg/Nm3)
01-04-2024	1.99	37.66	12.44	160.7
02-04-2024	1.98	45.58	12.51	202.72
03-04-2024	2	45.74	12.63	178.5
04-04-2024	2	55.65	12.84	200.35
05-04-2024	2.01	47.74	12.93	192.57
06-04-2024	2.01	54.32	13.02	212.36
07-04-2024	2.01	55.25	13.06	219.16
08-04-2024	2.01	49.65	12.88	192.8
09-04-2024	2.01	51.05	12.83	191.78
10-04-2024	2.01	44.44	13.13	158.14
11-04-2024	2	43.55	13.11	149.68
12-04-2024	1.99	37.04	12.94	103.19
13-04-2024	2	45.12	13.35	141.62
14-04-2024	1.99	35.47	13.28	103.21
15-04-2024	1.98	39.62	13.51	107.4
16-04-2024	1.98	42.3	13.45	127.54
17-04-2024	2	34.55	13.43	81.42
18-04-2024	1.98	33	13.72	175.23
19-04-2024	1.99	41.35	13.08	118.16
20-04-2024	1.97	42.84	13.29	140.83
21-04-2024	1.96	40.87	13.39	135.65
22-04-2024	1.96	42.32	13.47	135.15
23-04-2024	1.98	39.98	13.32	139.13
24-04-2024	1.99	40.08	13.4	147.37
25-04-2024	1.98	36.47	13.33	117.02
26-04-2024	1.98	51.36	13.67	205.24
27-04-2024	1.98	49.49	13.69	258.99
28-04-2024	1.98	43.47	13.48	240.11
29-04-2024	1.99	54.61	13.74	259.73
30-04-2024	1.99	40.47	14.73	108.82
Max	2	56	15	260
Min	2	33	12	81
Avg	2	44	13	161

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**GENERAL MANAGER
R&D AND QC**

**TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K.PERIYAPATTI (PO),
MANAPPARAI (TK), TRICHY (DT)-621308.**

Tamilnadu Newsprint and Papers Limited UNIT II

Online Lime Kiln Stack Monitoring - May'2024

Date	Lime_Kiln- H2S(mg/N m3)	Lime_Kiln- NOx(mg/Nm3)	Lime_Kiln- PM(mg/Nm3)	Lime_Kiln- SO2(mg/Nm3)
01-05-2024	2.01	40.86	14	93.58
02-05-2024	1.98	40.11	12.66	109.69
03-05-2024	1.97	39.98	12.76	95.82
04-05-2024	1.98	41.38	13.09	72.63
05-05-2024	2.01	42.69	13.5	64.38
06-05-2024	2.01	58.26	13.71	107.09
07-05-2024	2.02	70.92	13.99	154.96
08-05-2024	2.02	65.99	13.78	181.63
09-05-2024	2.02	70.08	13.89	182.6
10-05-2024	2.02	61.77	14.29	190.77
11-05-2024	2.03	69.81	14.21	175.65
12-05-2024	2.03	68.51	14.17	149.75
13-05-2024	2.03	71.89	14.72	150.76
14-05-2024	2.01	65.62	14.89	136.17
15-05-2024	2.03	59.36	15.57	134.13
16-05-2024	1.78	53.7	16.02	104.06
17-05-2024	0.94	45.19	16.74	74.31
18-05-2024	0.85	48.82	17.46	83.66
19-05-2024	0.82	54.07	17.84	98.25
20-05-2024	0.69	59.98	19.28	100.8
21-05-2024	1.33	81.83	19.9	165.45
22-05-2024	2.25	96.68	15.55	172.82
23-05-2024	2.16	79.51	11.55	156.51
24-05-2024	1.26	48.16	11.31	124.49
25-05-2024	0.99	39.31	11.37	131.58
26-05-2024	0.73	43.71	11.5	129.87
27-05-2024	0.6	55.62	11.65	184.94
28-05-2024	0.55	47.87	11.24	175.73
29-05-2024	0.65	69.03	11.38	185.17
30-05-2024	0.48	70.62	11.34	212.44
31-05-2024	0.44	64.64	11.27	213.46
Max	2	97	20	213
Min	0	39	11	64
Avg	2	59	14	139

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**GENERAL MANAGER
R&D AND QC**

**TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K.PERIYAPATTI (PO),
MANAPPARAI (TK), TRICHY (DT)-621308.**

Tamilnadu Newsprint and Papers Limited UNIT N

Online Lime Kiln Stack Monitoring - June'2024

Date	Lime_Kiln- H2S(mg/Nm3)	Lime_Kiln- NOx(mg/Nm3)	Lime_Kiln- PM(mg/Nm3)	Lime_Kiln- SO2(mg/Nm3)
01-06-2024	0.42	47.83	11	193.94
02-06-2024	0.41	59.87	11.36	169.58
03-06-2024	0.46	33.64	11.52	102.28
04-06-2024	0.46	42.44	11.34	184.47
05-06-2024	0.62	49.46	11.58	168.8
06-06-2024	0.41	56.82	11.71	184.8
07-06-2024	0.44	55.45	11.42	126.41
08-06-2024	0.42	48.95	11.49	176.37
09-06-2024	0.39	40.89	11.01	227.95
10-06-2024	0.41	43.78	11.25	191.47
11-06-2024	0.42	42.88	11.17	214.65
12-06-2024	0.42	40.99	11.23	146.51
13-06-2024	0.45	41.98	11.45	151.57
14-06-2024	0.44	45.99	11.11	197.82
15-06-2024	0.43	41.82	10.98	237.36
16-06-2024	0.4	42.97	11.15	238.83
17-06-2024	0.41	52.43	11.52	203.01
18-06-2024	0.41	59.52	11.51	184.39
19-06-2024	0.38	73.88	11.61	189.49
20-06-2024	0.38	65.74	11.48	203.98
21-06-2024	0.38	68.39	11.57	187.75
22-06-2024	0.39	73.24	11.42	220.25
23-06-2024	0.38	60.49	11.06	214.89
24-06-2024	0.38	73.25	11.41	197.18
25-06-2024	0.4	72.73	11.46	171.12
26-06-2024	0.4	72.02	11.47	219.55
27-06-2024	0.38	67.92	11.28	183.44
28-06-2024	0.37	67.36	11.24	211.3
29-06-2024	0.38	58.91	11.18	211.61
30-06-2024	0.37	69.3	11.4	222.74
Max	1	74	12	239
Min	0	34	11	102
Avg	0	56	11	191

J. N. Jayaraman
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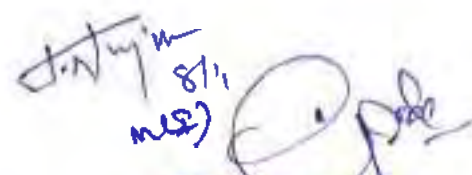
**GENERAL MANAGER
R&D AND QC**

**TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K.PERIYAPATTI (PO),
MANAPPARAI (TK.), TRICHY (DT)-621303.**

Tamilnadu Newsprint and Papers Limited UNIT II

Online Lime Kiln Stack Monitoring - July'2024

Date	Lime_Kiln- H2S(mg/Nm3)	Lime_Kiln- NOx(mg/Nm3)	Lime_Kiln- PM(mg/Nm3)	Lime_Kiln- SO2(mg/Nm3)
01-07-2024	0.4	60.47	11.38	173.4
02-07-2024	0.37	32.27	11.32	116.24
03-07-2024	0.42	44.19	11.25	133.43
04-07-2024	0.42	48.48	11.29	198.7
05-07-2024	0.42	50.02	11.3	229.03
06-07-2024	0.41	45.71	11.03	215.42
07-07-2024	0.42	64.87	11.28	202.86
08-07-2024	0.43	59.68	11.32	175.58
09-07-2024	0.4	69.9	11.27	201.28
10-07-2024	0.4	65.05	11.39	154.79
11-07-2024	1.25	64.63	11.28	200.45
12-07-2024	1.15	50.6	12.5	118.87
13-07-2024	1.55	46.57	18.66	195.08
14-07-2024	2.41	65.13	11.57	139.74
15-07-2024	0.99	62.07	11.15	161.65
16-07-2024	2.03	77.04	11.42	139.41
17-07-2024	0.54	73.32	11.4	161.74
18-07-2024	0.80	59.48	10.93	141.57
19-07-2024	0.46	79.74	11	189.99
20-07-2024	0.58	68.03	11.05	174.96
21-07-2024	0.58	62.27	11.17	145.72
22-07-2024	0.46	61.58	10.98	212.12
23-07-2024	0.45	47.32	10.46	215.01
24-07-2024	0.45	74.11	10.8	162.03
25-07-2024	0.46	62.78	11.01	158.16
26-07-2024	0.75	65.27	12.1	138.94
27-07-2024	0.44	62.17	10.74	185.25
28-07-2024	0.45	51.66	10.53	209.17
29-07-2024	0.46	65.65	10.83	214.69
30-07-2024	0.48	56.98	10.76	164.22
31-07-2024	0.48	70.36	11.19	211.22
Max	2	80	19	229
Min	0	32	10	116
Avg	1	60	11	174


GENERAL MANAGER
R&D AND QC
TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K.PERIYAPATTI (PO),
MANAPPARAI (TK.), TRICHY (DT)-621306.

Tamilnadu Newsprint and Papers Limited UNIT II

Online Lime Kiln Stack Monitoring - Aug'2024

Date	Lime Kiln- H2S(mg/Nm3)	Lime Kiln- NOx(mg/Nm3)	Lime Kiln- PM(mg/Nm3)	Lime Kiln- SO2(mg/Nm3)
01-08-2024	1.02	58.51	11.06	144.33
02-08-2024	2.88	27.12	11.09	62.98
03-08-2024	1.94	30.76	10.9	85.99
04-08-2024	1.58	29.04	10.77	72.09
05-08-2024	0.93	139.94	11.19	124.41
06-08-2024	0.48	233.17	11.12	219.23
07-08-2024	0.51	270.98	11.25	217.77
08-08-2024	0.55	188.09	10.84	189.75
09-08-2024	0.55	213.67	11.21	230.15
10-08-2024	0.55	198.63	11.36	215.16
11-08-2024	0.56	182.06	11.41	208
12-08-2024	0.55	180.88	11.35	229.99
13-08-2024	0.55	168.93	11.39	215.23
14-08-2024	0.54	156.5	11.15	202.23
15-08-2024	0.53	203.21	11.22	218.36
16-08-2024	0.53	171.68	11.18	211
17-08-2024	0.53	186.6	10.98	219.69
18-08-2024	0.53	181.85	10.79	208.16
19-08-2024	0.53	196.52	11.16	202.9
20-08-2024	0.54	141.79	10.76	200.25
21-08-2024	0.54	150.77	10.82	203.81
22-08-2024	0.55	202.95	10.9	211.29
23-08-2024	0.57	223.61	10.72	211.97
24-08-2024	0.64	164.14	10.54	208.9
25-08-2024	0.64	181.4	10.67	210.48
26-08-2024	0.63	194.51	10.76	205.84
27-08-2024	0.62	196.24	10.66	202.4
28-08-2024	0.61	166.56	10.63	210.45
29-08-2024	0.61	161.59	10.64	188.81
30-08-2024	0.61	175.34	11.02	199.01
31-08-2024	0.61	233.44	10.87	207.55
Max	3	271	11	230
Min	0	27	11	63
Avg	1	168	11	192



GENERAL MANAGER
R&D AND QC
TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K.PERIYAPATTI (PO),
MANAPPARAI (TK.), TRICHY (DT)-621306.

Tamilnadu Newsprint and Papers Limited UNIT II

Online Lime Kiln Stack Monitoring - Sep'2024

Date	Lime_Kiln- H2S(mg/Nm3)	Lime_Kiln- NOx(mg/Nm3)	Lime_Kiln- PM(mg/Nm3)	Lime_Kiln- SO2(mg/Nm3)
01-09-2024	0.61	194.85	10.62	207.11
02-09-2024	0.61	226.97	10.8	204.16
03-09-2024	0.6	186.7	10.69	205.18
04-09-2024	0.61	207.25	10.82	206.62
05-09-2024	0.64	232.24	10.87	225.41
06-09-2024	0.67	277.51	10.76	186.43
07-09-2024	0.67	162.85	10.83	225.83
08-09-2024	0.67	195.73	10.56	233.2
09-09-2024	0.67	220.49	10.64	229.06
10-09-2024	0.67	245.6	10.87	235.11
11-09-2024	0.67	260.8	10.75	237.83
12-09-2024	0.66	171.29	10.46	234.26
13-09-2024	0.67	216.16	10.76	238.59
14-09-2024	0.67	279.01	10.84	252.7
15-09-2024	0.68	211.05	10.85	253.13
16-09-2024	0.68	87.91	10.82	202.09
17-09-2024	0.67	82.66	10.85	159.97
18-09-2024	0.67	85.13	10.96	203.69
19-09-2024	0.66	61.05	10.65	150.13
20-09-2024	0.69	28.77	10.95	81.97
21-09-2024	0.69	43.99	10.74	103.77
22-09-2024	0.68	96.12	10.95	234.71
23-09-2024	0.67	67.55	11.03	194.89
24-09-2024	0.67	59.05	10.85	204.33
25-09-2024	0.68	67.4	10.89	228.86
26-09-2024	0.67	79.68	10.81	260.13
27-09-2024	0.67	73.79	10.79	245.39
28-09-2024	0.67	77.93	10.89	253.85
29-09-2024	0.67	83.36	10.99	240.59
30-09-2024	0.69	69.8	10.8	226.75
Max	1	279	11	260
Min	1	29	10	82
Avg	1	145	11	212

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**GENERAL MANAGER
R&D AND QC**

**TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K.PERIYAPATTI (PO),
MANAPPARAI (TK.), TRICHY (DT)-621306.**

TEST REPORT

Test Report No & Date	CTL/CH/N-21513/2024-25 & 03.05.2024
Sample Number	N-21513/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K. Penyapatti Post, Manapparal Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Stack Emission
Sample Description	Stack Emission
Sampling Location	Stack attached with LIME KILN
Sample Drawn on	24.04.2024
Sample Received on	27.04.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 11255
Sample Quantity	1 No
Equipment used for Sampling	Stack Kir 288 DTI 2020
Analysis Started on	27.04.2024
Analysis Completed on	03.05.2024

PHYSICAL PARAMETERS:

STACK HEIGHT (m)	53.8
STACK TEMPERATURE (K)	468.0
STACK VELOCITY (m/s)	11.7
STACK GAS FLOW RATE (Nm ³ /hr)	40975.2
DIAMETER OF STACK AT PORTHOLE (m)	1.4
*APCM STATUS AT THE TIME OF SAMPLING	ESP - On Condition

Test Results:

The above sample tested as received, and results are as follows.

S.L.NO	PARAMETERS	METHOD	UNITS	RESULTS
1	OXIDES OF NITROGEN (NO _x as NO ₂)	IS 11255 PART 7 2005 (R 2017)	mg/Nm ³	78
2	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1905 (R 2019)	mg/Nm ³	360
3	PARTICULATE MATTER (PM)	IS 11255 PART 1 1985 (R 2019)	mg/Nm ³	19.1
4	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	ppm	312
5	CARBON DIOXIDE (CO ₂)		%	16.4
6	OXYGEN (O ₂)		%	4.2

[Signature]
Analyst

For Chemical Testing Laboratory Pvt Ltd

The Report shall not be valid as evidence, if found any discrepancy with the original sample. This Report is valid only for the use of the addressee to whom it is addressed.
G. MANIKANDAN
 In-charge, Environment Division
 (CHEMICAL)

A - Super 19, T.V.K. Industrial Estate, Gundy, Chennai - 600 032, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com

TEST REPORT

Test Report No & Date	CTL/CH/N-21513/2024-25 & 03.05.2024
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SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
7	MOISTURE CONTENT	IS 11755 PART 3 2008	%	3.2
8	HYDROGEN SULPHIDE(H ₂ S)	IS 11255 PART 4 2006	ppm	7

END OF REPORT

Verified by: 

For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 2 of 2

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-22650/2024-25 & 30.05.2024
Sample Number N-22650/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Stack Emission
Sample Description Emission Monitoring For Process Stacks
Sampling Location Stack attached with LIME KILN
Sample Drawn on 21.05.2024
Sample Received on 24.05.2024
Sampling Plan & Procedure CTL/QSP/F-09 & IS 11255
Sample Quantity 1 No
Equipment used for Sampling Stack Kit 288 DTI 2020
Analysis Started on 24.05.2024
Analysis Completed on 30.05.2024

PHYSICAL PARAMETERS:

STACK HEIGHT (m) 53.8
 STACK TEMPERATURE (K) 492.0
 STACK VELOCITY (m/s) 12.3
 STACK GAS FLOW RATE (Nm³/hr) 41014.5
 DIAMETER OF STACK AT PORTHOLE (m) 1.4
 *APCM STATUS AT THE TIME OF SAMPLING ESP - ON Condition

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
1	OXIDES OF NITROGEN NO _x (as NO ₂)	IS 11255 PART 7 2005 (R 2017)	mg/Nm ³	85
2	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985 (R 2019)	mg/Nm ³	324
3	PARTICULATE MATTER (PM)	IS 11255 PART 1 1985 (R 2019)	mg/Nm ³	21.8
4	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	ppm	352
5	CARBON DIOXIDE (CO ₂)		%	13.5
6	OXYGEN (O ₂)		%	4.3


Verified by

For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory
G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

The Report should not be used to allege, defend or / for any liability. The Report is only valid for the use of the addressee to promote business only.

Page 1 of 2

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com www.cdllabs.in

TEST REPORT

Test Report No & Date	CTL/CH/N-22650/2024-25 & 30.05.2024
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SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
7	MOISTURE CONTENT	IS 11255 PART 3 2008	%	35
8	HYDROGEN SULPHIDE(H ₂ S)	IS 11255 PART 4 2006	ppm	6

END OF REPORT

Verified by 

For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory
G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 2 of 2

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-24942/2024-25 & 03.07.2024
Sample Number N-24942/24-25
Name of the Customer M/S. TAMILNADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Stack Emission
Sample Description Emission Monitoring For Process Stacks
Sampling Location Stack attached with LIME KILN
Sample Drawn on 25.06.2024
Sample Received on 27.06.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 11255
Sample Quantity 1 No
Equipment used for Sampling Stack Kk 288 DTI 2020
Analysis Started on 27.06.2024
Analysis Completed on 03.07.2024

PHYSICAL PARAMETERS:
STACK HEIGHT (m) 53.8
STACK TEMPERATURE (K) 485.0
STACK VELOCITY (m/s) 12.3
STACK GAS FLOW RATE (Nm³/hr) 41828.7
DIAMETER OF STACK AT BORTHOLE (m) 1.4
***APCM STATUS AT THE TIME OF SAMPLING** ESP - ON Condition

Test Results:
 The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
1	OXIDES OF NITROGEN NOx (as NO ₂)	IS 11255 PART 7 2005 (R 2017)	mg/Nm ³	94
2	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985 (R 2019)	mg/Nm ³	315
3	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985 (R 2019)	mg/Nm ³	23.6
4	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 Gas Analyser) (Flue	ppm	245
5	CARBON DIOXIDE (CO ₂)		%	15.6
6	OXYGEN (O ₂)		%	* 4.2

For Chennai Testing Laboratory Pvt Ltd


Verified by

Head - Environment Division
 (CHEMICAL)

A - Super 19, T.V.K. Industrial Estate, Gundy, Chennai - 600 032, Tamil Nadu - India

CIN : U93000TN2000PTC043869

TEST REPORT


Test Report No & Date	CTL/CH/N-24942/2024-25 & 03.07.2024
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SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
7	MOISTURE CONTENT	IS 11255 PART 3 2008	%	3.1
8	HYDROGEN SULPHIDE(H ₂ S)	IS 11255 PART 4 2006	ppm	7

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd


Verified by


Authorized Signatory

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 2 of 2



CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-26966/2024-25 & 07.08.2024
Sample Number	N-26966/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Stack Emission
Sample Description	Emission Monitoring For Process Stacks
Sampling Location	Stack attached with LIME KILN
Sample Drawn on	29.07.2024
Sample Received on	01.08.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 11255
Sample Quantity	1 No
Equipment used for Sampling	Stack Kit 298 DTI 2020
Analysis Started on	01.08.2024
Analysis Completed on	07.08.2024

PHYSICAL PARAMETERS:

STACK HEIGHT (m)	53.8
STACK TEMPERATURE (K)	481.0
STACK VELOCITY (m/s)	12.2
STACK GAS FLOW RATE (Nm ³ /hr)	41738.7
DIAMETER OF STACK AT PORTHOLE (m)	1.4
*APCM STATUS AT THE TIME OF SAMPLING	ESP - ON Condition

Test Results

The above sample tested as received, and results are as follows:

SLNO	PARAMETERS	METHOD	UNITS	RESULTS
1	OXIDES OF NITROGEN NO _x (as NO ₂)	IS 11255 PART 7 2005 (R 2017)	mg/Nm ³	102
2	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985 (R 2019)	mg/Nm ³	217
3	PARTICULATE MATTER (PM)	IS 11255 PART 1 1985 (R 2019)	mg/Nm ³	27.5
4	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 Gas Analyser) (Flue	ppm	201
5	CARBON DIOXIDE (CO ₂)		%	14.7
6	OXYGEN (O ₂)		%	5.6

For Chennai Testing Laboratory Pvt Ltd

Verified by

Authorised Signatory

G. MANIKANDAN

Head - Environment Division
CHENNAI TESTING LABORATORY - India

A - Super 19, I.V.K. Industrial Estate, Guindy, Chennai - 600 072

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com www.ctllabs.in

TEST REPORT

Test Report No & Date	CTL/CH/N-26966/2024-25 & 07.08.2024
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SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
7	MOISTURE CONTENT	IS 11255 PART 3 2009	%	3.6
8	HYDROGEN SULPHIDE(H ₂ S)	IS 11355 PART 4 2006	ppm	B

END OF REPORT


Verified by

For Chennai Testing Laboratory Pvt Ltd


Authorized Signatory

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 2 of 2

CIN : U93000TN2000PTC043669

TEST REPORT

Test Report No & Date CTL/CH/N-20112/2024-25 & 02.09.2024
Sample Number N-20112/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT 01,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Stack Emission
Sample Description Emission Monitoring For Process Stacks
Sampling Location Stack attached with LIME KILN
Sample Drawn on 22.08.2024
Sample Received on 24.08.2024
Sampling Plan & Procedure CTL/QSP/F-09 & IS 11255
Sample Quantity 1 No
Equipment used for Sampling Stack kit 288 DTN 2030
Analysis Started on 24.08.2024
Analysis Completed on 02.09.2024

PHYSICAL PARAMETERS:

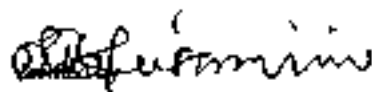
STACK HEIGHT (m) 53.0
 STACK TEMPERATURE (K) 500.0
 STACK VELOCITY (m/s) 12.7
 STACK GAS FLOW RATE (Nm³/hr) 41699.3
 DIAMETER OF STACK AT PORTHOLE (m) 1.4
 *APCM STATUS AT THE TIME OF SAMPLING ESP - ON Condition

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
1	OXIDES OF NITROGEN NO _x (as NO ₂)	IS 11255 PART 7 2005 (R 2017)	mg/Nm ³	127
2	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985 (R 2019)	mg/Nm ³	151
3	PARTICULATE MATTER (PM)	IS 11255 PART 1 1985 (R 2019)	mg/Nm ³	29.6
4	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 Gas Analyser) (Flue	ppm	189
5	CARBON DIOXIDE (CO ₂)		%	14.5
6	OXYGEN (O ₂)		%	5.7

For Chennai Testing Laboratory Pvt Ltd



The Report shall not be used for any other purpose without the prior written consent of the laboratory. To ensure the accuracy of the data, the laboratory is not responsible for any errors or omissions in the data. G. N. KANDAN, Head, Environmental Division (CHEMICAL)

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 092, Tamil Nadu - India

Page 1 of 2

TEST REPORT

Test Report No & Date	CTL/CH/N-28112/2024-25 & 02.09.2024
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SLNO	PARAMETERS	METHOD	UNITS	RESULTS
7	MOISTURE CONTENT	IS 11255 PART 3 2008	%	4.1
8	HYDROGEN SULPHIDE(H ₂ S)	IS 11255 PART 4 2006	ppm	5

END OF REPORT

[Handwritten Signature]

For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory

G. MANIKANDAN
Head, Environment Division
(CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29778/2024-25 & 03.10.2024
Sample Number	N-29778/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyapattu Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Stack Emission
Sample Description	Emission Monitoring For Process Stacks
Sampling Location	Stack attached with LIME KILN
Sample Drawn on	18.09.2024
Sample Received on	22.09.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 11255
Sample Quantity	1 No
Equipment used for Sampling	Stack Kit 288 DTI 2020
Analysis Started on	23.09.2024
Analysis Completed on	03.10.2024

PHYSICAL PARAMETERS:

STACK HEIGHT (m)	53.8
STACK TEMPERATURE (K)	508.0
STACK VELOCITY (m/s)	12.9
STACK GAS FLOW RATE (Nm ³ /hr)	41863.7
DIAMETER OF STACK AT BIRTHOLE (m)	1.4
*APCM STATUS AT THE TIME OF SAMPLING	ESP - ON Condition

Test Results:

The above sample tested as received, and results are as follows

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
1	OXIDES OF NITROGEN NO _x (as NO ₂)	IS 11255 (PART 7)	mg/Nm ³	167
2	SULPHUR DIOXIDE (SO ₂)	IS 11255 (PART 2)	mg/Nm ³	366
3	PARTICULATE MATTER (PM)	IS 11255 (PART 1)	mg/Nm ³	31.6
4	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10 (Flue Gas Analyser)	ppm	51
5	CARBON DIOXIDE (CO ₂)		%	13.4
6	OXYGEN (O ₂)		%	6.2

Verified by

For Chennai Testing Laboratory Pvt Ltd

The Report includes no explicit design, defence and/or compliance with any regulatory
The Report is valid only for the use of the customer as stated in the Report.

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 024, Tamil Nadu - India

Page 1 of 2

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29770/2024-25 & 03.10.2024
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Sl.NO	PARAMETERS	METHOD	UNITS	RESULTS
7	MOISTURE CONTENT	IS 11255 PART 3 2008	%	4.7
8	HYDROGEN SULPHIDE(H ₂ S)	IS 11255 PART 4 2006	ppm	9

END OF REPORT

AK
Verified by

For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory
G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

Page 2 of 4

This Report should be used to make a decision and for any further purpose
 The Report is meant only for the use of the customer or provide further evidences

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India


Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com www.cillabs.in

Tamilnadu Newsprint and Papers Limited UNIT II

Online Chemical Recovery Boiler Stack Monitoring - April'2024

Date	SRP_Boiler- H ₂ S(mg/Nm ³)	SRP_Boiler- NO(mg/Nm ³)	SRP_Boiler- PM(mg/Nm ³)	SRP_Boiler- SO ₂ (mg/Nm ³)
01-04-2024	0.62	107.65	78.88	159.01
02-04-2024	0.63	130.05	76.3	148.55
03-04-2024	0.63	124.53	76.45	165.87
04-04-2024	0.64	79.77	68.29	104.95
05-04-2024	0.63	31.34	55.63	52.58
06-04-2024	0.63	31.27	51.91	51.23
07-04-2024	0.59	89.1	56.36	95.65
08-04-2024	0.6	78.72	64.24	105.25
09-04-2024	0.5	68.84	64.51	159.83
10-04-2024	0.54	73.46	61	113.4
11-04-2024	0.64	56.65	60.92	92.89
12-04-2024	0.63	41.64	57.16	92.25
13-04-2024	0.64	45.66	65.23	147.44
14-04-2024	0.62	55.24	55.8	170.17
15-04-2024	0.61	54.01	55.36	186.23
16-04-2024	0.63	49.02	54.41	151.43
17-04-2024	0.67	17.7	44.63	78.89
18-04-2024	0.63	43.52	41.79	101.89
19-04-2024	0.62	58.08	41.96	159.19
20-04-2024	0.64	56.55	44.99	192.01
21-04-2024	0.63	55.79	47.72	196.46
22-04-2024	0.64	56.92	46.35	145.87
23-04-2024	0.63	54.29	47.39	166.83
24-04-2024	0.62	51.55	49.21	162.07
25-04-2024	0.62	68.87	57.82	164.62
26-04-2024	0.64	81.43	69.58	100.84
27-04-2024	0.63	81.09	74.13	103.16
28-04-2024	0.63	83.8	74.77	93.68
29-04-2024	0.61	78.09	79.64	87.33
30-04-2024	0.64	68.56	77.46	72.73
Max	1	139	80	196
Min	1	18	42	51
Avg	1	66	60	127

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**GENERAL MANAGER
R&D AND QC**

**TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K.PERIYAPATTI (PO),
MANAPPARAI (TK.), TRICHY (DT)-621306.**

Tamilnadu Newsprint and Papers Limited UNIT II

Online Chemical Recovery Boiler Stack Monitoring - May'2024

Date	SRP_Boiler-H ₂ S(mg/Nm ³)	SRP_Boiler-NO(mg/Nm ³)	SRP_Boiler-PM(mg/Nm ³)	SRP_Boiler-SO ₂ (mg/Nm ³)
01-05-2024	0.64	48.66	61.65	107.45
02-05-2024	0.94	50.42	63.85	163.22
03-05-2024	1.35	65.94	70.14	88.46
04-05-2024	1.37	55.65	58.59	153.54
05-05-2024	1.4	53.59	44.91	113.77
06-05-2024	1.39	53.23	31.64	109.35
07-05-2024	1.39	49.65	37.61	147.25
08-05-2024	1.4	51.33	46.36	168.51
09-05-2024	1.4	54.81	52.32	135.14
10-05-2024	1.4	50.36	47.51	171.79
11-05-2024	1.4	46.74	43.73	135.08
12-05-2024	1.4	66.56	53.22	133.84
13-05-2024	1.41	60.85	62.24	68.46
14-05-2024	1.42	84.49	54.98	67.63
15-05-2024	1.4	117.8	47.69	137.61
16-05-2024	1.76	153.85	61.8	50.8
17-05-2024	2.53	49.65	36.01	76.83
18-05-2024	2.23	77.82	35.01	128.73
19-05-2024	2.75	118.39	30.72	191.12
20-05-2024	2.4	135.94	36.3	78.51
21-05-2024	2.72	67.5	29.91	196.95
22-05-2024	2.57	74.6	25.29	175.07
23-05-2024	2.49	127.97	26.78	166.07
24-05-2024	2.78	124.27	23.84	186.55
25-05-2024	2.77	115.57	23.21	214.44
26-05-2024	2.68	175.7	26.8	183.78
27-05-2024	2.76	152.18	31.92	119.48
28-05-2024	2.74	101.05	34.04	83.33
29-05-2024	2.86	95.56	36.92	161.33
30-05-2024	2.8	98.47	37.21	139.46
31-05-2024	2.62	99.79	44.91	120.59
Max	3	176	70	214
Min	1	47	23	51
Avg	2	87	42	135

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GENERAL MANAGER
R&D AND QC
TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K.PERIYAPATTI (P.O.)
MANAPPARAI (TK.), TRICHY (DT)-621328

Tamilnadu Newsprint and Papers Limited UNIT II				
Online Chemical Recovery Boiler Stack Monitoring - June'2024				
Date	SRP_Boiler- H ₂ S(mg/Nm ³)	SRP_Boiler- NO(mg/Nm ³)	SRP_Boiler- PM(mg/Nm ³)	SRP_Boiler- SO ₂ (mg/Nm ³)
01-06-2024	2.77	97.43	43.13	101.23
02-06-2024	2.64	83.82	44.19	173.72
03-06-2024	2.75	89.14	38.4	145.41
04-06-2024	3.06	88.31	39.23	151.93
05-06-2024	2.94	81.42	42.96	108.47
06-06-2024	2.71	80.51	39.82	143.36
07-06-2024	2.64	62.17	30.85	38.34
08-06-2024	2.43	53.01	31.17	58.87
09-06-2024	1.6	53.53	34.41	30.78
10-06-2024	2.08	70.01	32.98	29.31
11-06-2024	2.39	66.6	33.41	27.58
12-06-2024	2.21	66.06	36.37	27.83
13-06-2024	2.6	61.12	25.94	23.73
14-06-2024	2.89	60.51	28.75	43.99
15-06-2024	2.29	74.74	40.81	35.33
16-06-2024	2.6	72.98	44.9	24.29
17-06-2024	2.47	69.74	41.99	26.16
18-06-2024	2.57	50	24.7	66.65
19-06-2024	2.65	41.8	26.59	228.78
20-06-2024	2.72	55.71	31.74	65.68
21-06-2024	2.58	61.26	26.34	51.61
22-06-2024	2.84	61.82	30.04	64.4
23-06-2024	2.83	52.33	37.83	67.18
24-06-2024	2.88	60.17	37.37	75.71
25-06-2024	2.56	47.13	27.22	94.75
26-06-2024	2.86	50.41	34.48	71.45
27-06-2024	2.66	48.13	28.62	76.28
28-06-2024	2.7	44.86	24.71	137.13
29-06-2024	2.68	45.55	31.48	112.96
30-06-2024	3.05	51	25.08	78.83
Max	3	97	45	229
Min	2	42	25	24
Avg	3	63	34	79

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GENERAL MANAGER
R&D AND QC
TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K.PERIYAPATTI (PO),
MANAPPARAI (TK), TRICHY (DT)-621306.

Tamilnadu Newsprint and Papers Limited UNIT II

Online Chemical Recovery Boiler Stack Monitoring - July'2024

Date	SRP_Boiler-H ₂ S(mg/Nm ³)	SRP_Boiler-NO(mg/Nm ³)	SRP_Boiler-PM(mg/Nm ³)	SRP_Boiler-SO ₂ (mg/Nm ³)
01-07-2024	2.68	46.16	25.25	140.31
02-07-2024	2.55	33.03	23.78	71.32
03-07-2024	2.83	49.98	23.53	138.18
04-07-2024	2.72	51.65	31.3	120.39
05-07-2024	3.19	65.89	39.33	54.06
06-07-2024	2.72	61.62	40.9	54.78
07-07-2024	2.76	46.86	34.75	144.89
08-07-2024	2.75	44.36	31.61	128.04
09-07-2024	2.77	41.94	29.17	87.53
10-07-2024	2.78	44.32	28.19	127.7
11-07-2024	2.92	54.25	26.18	116.78
12-07-2024	2.68	53.15	29.43	65.82
13-07-2024	2.03	53.44	30.79	57.97
14-07-2024	2.07	54.71	30.55	46.33
15-07-2024	2.5	63.9	43.5	46.08
16-07-2024	2.57	59.45	42.97	67.14
17-07-2024	2.65	59.42	39.05	38.55
18-07-2024	2.72	50.69	38.88	144.24
19-07-2024	3.1	51.49	41.71	75.46
20-07-2024	2.93	45.89	41.24	85.31
21-07-2024	2.91	53.46	42.92	77.52
22-07-2024	2.7	49.29	35.88	123.19
23-07-2024	2.69	49.28	40.97	173.55
24-07-2024	2.78	50.14	37.68	120.59
25-07-2024	2.76	51.73	48.67	104.56
26-07-2024	2.65	58.6	29.16	74.45
27-07-2024	2.74	69.68	33.8	55.05
28-07-2024	3.01	58.92	43.15	60.19
29-07-2024	2.78	52.99	49.37	46.77
30-07-2024	2.49	53.53	49.25	61.01
31-07-2024	2.92	46.22	52.25	77.11
Max	3	70	52	174
Min	2	33	24	39
Avg	3	52	37	90


 J. Jayaram
 M/12
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GENERAL MANAGER
 R&D AND QC
 TAMILNADU NEWSPRINT AND PAPERS LIMITED
 (BOARD DIVISION)
 MONDIPATTI, K.PERIYAPATTI (PO),
 MANAPPARAI (TK.), TRICHY (DT)-621306.

Tamilnadu Newsprint and Papers Limited UNIT II

Online Chemical Recovery Boiler Stack Monitoring - Aug'2024

Date	SRP_Boiler- H ₂ S(mg/Nm ³)	SRP_Boiler- NO(mg/Nm ³)	SRP_Boiler- PM(mg/Nm ³)	SRP_Boiler- SO ₂ (mg/Nm ³)
01-08-2024	2.73	44.25	50.39	121.24
02-08-2024	2.66	43.32	59.26	143.15
03-08-2024	2.44	41.64	46.43	97.13
04-08-2024	2.93	39.09	39.63	93.28
05-08-2024	3.27	45.2	52.44	93.5
06-08-2024	2.79	45.97	54.38	92.25
07-08-2024	2.67	52.5	50.53	123.63
08-08-2024	2.92	62.41	41.93	106.99
09-08-2024	2.74	62.37	37.77	110.58
10-08-2024	2.74	62.95	42.61	178.19
11-08-2024	2.85	62.17	43.39	119.67
12-08-2024	2.17	58.83	38.33	98.96
13-08-2024	2.71	58.56	40.26	109.57
14-08-2024	2.79	58.61	36.22	122.18
15-08-2024	2.73	57.95	37.68	165.97
16-08-2024	2.78	60.93	37.83	128.5
17-08-2024	2.9	60.5	37.82	138.83
18-08-2024	2.77	59.86	37.76	179.13
19-08-2024	2.99	58.86	38.64	130.92
20-08-2024	2.94	58.42	39.2	110.98
21-08-2024	3.03	59.71	42.02	168.04
22-08-2024	2.54	58.69	39.06	187.45
23-08-2024	3.04	57.9	38.4	180.94
24-08-2024	3.06	58.48	41.27	181.25
25-08-2024	2.94	61	41.81	241.34
26-08-2024	2.57	60.81	46.78	204.49
27-08-2024	2.24	62.33	41.14	173.47
28-08-2024	2.65	66.56	59.94	175.36
29-08-2024	2.24	62.43	36.15	154.54
30-08-2024	3.12	63.44	30.88	168.06
31-08-2024	2.77	63.85	36.01	172.92
Max	3	67	59	241
Min	2	39	31	92
Avg	3	57	42	144

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GENERAL MANAGER
R&D AND QC
TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K.PERIYAPATTI (PO),
MANAPPARAI (TK.), TRICHY (DT)-621306.

Tamilnadu Newsprint and Papers Limited UNIT II				
Online Chemical Recovery Boiler Stack Monitoring - Sep'2024				
Date	SRP_Boiler- N ₂ S(mg/Nm ³)	SRP_Boiler- NO(mg/Nm ³)	SRP_Boiler- PM(mg/Nm ³)	SRP_Boiler- SO ₂ (mg/Nm ³)
01-09-2024	1.6	70.8	45.9	150.8
02-09-2024	1.6	66.7	47.4	157.0
03-09-2024	2.6	61.4	39.2	164.7
04-09-2024	0.5	59.0	31.5	103.3
05-09-2024	2.8	60.9	32.3	167.2
06-09-2024	2.6	55.1	34.4	168.4
07-09-2024	2.1	60.4	34.9	149.9
08-09-2024	2.7	61.9	35.1	169.6
09-09-2024	3.0	63.1	37.0	153.9
10-09-2024	2.7	64.1	40.1	157.7
11-09-2024	2.4	64.3	36.3	195.8
12-09-2024	1.3	59.9	30.6	147.0
13-09-2024	2.7	65.4	35.0	215.4
14-09-2024	2.8	65.8	37.0	178.7
15-09-2024	2.4	64.0	38.8	161.6
16-09-2024	2.5	64.5	42.5	181.4
17-09-2024	2.7	64.6	44.6	191.4
18-09-2024	1.7	62.3	40.8	170.0
19-09-2024	1.9	55.8	30.8	174.3
20-09-2024	2.9	63.1	32.7	205.2
21-09-2024	2.6	65.3	35.4	181.2
22-09-2024	2.8	65.7	37.1	235.2
23-09-2024	2.8	61.8	38.9	212.7
24-09-2024	2.8	68.6	46.6	231.4
25-09-2024	1.9	64.0	61.2	174.0
26-09-2024	2.9	65.0	58.6	219.9
27-09-2024	2.6	64.2	52.4	193.1
28-09-2024	2.7	62.5	57.9	221.5
29-09-2024	2.6	66.6	67.1	239.7
30-09-2024	2.8	63.4	61.8	232.9
Max	3	71	67	240
Min	0	55	31	103
Avg	2	63	42	183

Jatujin
8/11
M/L

[Signature]

GENERAL MANAGER
R&D AND QC

TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K.PERIYAPATTI (PO),
MANAPPARAI (TK.), TRICHY (DT)-621306.

TEST REPORT

Test Report No & Date CTL/CH/N-21514/2024-25 & 03.05.2024
Sample Number N-21514/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Stack Emission
Sample Description Stack Emission
Sampling Location Stack attached with SODA RECOVERY BOILER
Sample Drawn on 24.04.2024
Sample Received on 27.04.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 11255
Sample Quantity 1 No
Equipment used for Sampling Stack Kit 2HR DTI 2020
Analysis Started on 27.04.2024
Analysis Completed on 03.05.2024

PHYSICAL PARAMETERS:

STACK HEIGHT (m) 103
STACK TEMPERATURE (K) 415.0
STACK VELOCITY (m/s) 13.7
STACK GAS FLOW RATE (Nm³/hr) 52573.3
DIAMETER OF STACK AT PORTHOLE (m) 1.38
***APCM STATUS AT THE TIME OF SAMPLING** ESP - ON Condition

Test Results:

The above sample tested as received, and results are as follows:

S.L.NO	PARAMETERS	METHOD	UNITS	RESULTS
1	OXIDES OF NITROGEN NO _x (as NO ₂)	IS 11255 PART 7 2005 (R 2017)	mg/Nm ³	137
2	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985 (R 2019)	mg/Nm ³	42
3	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985 (R 2019)	mg/Nm ³	37.2
4	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 (Plus) Gas Analyser)	ppm	BDL(DL:2.0)
5	CARBON DIOXIDE (CO ₂)		%	13.5
6	OXYGEN (O ₂)		%	6.4

Authorized by: 

For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory
G. MANIKANDAN
 600036, Tamil Nadu, India
 (CHEMICAL)
 Phone - +91-44-2250 1757 | E-mail - chennaiesting@chennaiestinglab.com

TEST REPORT

Test Report No & Date	CTL/CH/N-21514/2024-25 & 03.05.2024
-----------------------	-------------------------------------

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
7	MOISTURE CONTENT	IS 11255 PART 3 2008	%	2.2
8	HYDROGEN SULPHIDE(H ₂ S)	IS 11255 PART 4 2006	ppm	5

NDL - Below Detection Limit, DL - Detection Limit

END OF REPORT

Verified by 

For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 2 of 2

TEST REPORT

Test Report No & Date CTL/CH/N-22649/2024-25 & 30.05.2024
Sample Number N-22649/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II.
Address Mondipatti Village, K.Periyapatti Post, Manapparal Taluk,
 Tirukaly District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Stack Emission
Sample Description Emission Monitoring For Process Stacks
Sampling Location Stack attached with SODA RECOVERY BOILER
Sample Drawn on 22.05.2024
Sample Received on 24.05.2024
Sampling Plan & Procedure CTL/QSP/P-09 & IS 11255
Sample Quantity 1 No
Equipment used for Sampling Stack Kit 286 DTI 2020
Analysis Started on 24.05.2024
Analysis Completed on 30.05.2024

PHYSICAL PARAMETERS:

STACK HEIGHT (m) 103
 STACK TEMPERATURE (K) 420.0
 STACK VELOCITY (m/s) 13.4
 STACK GAS FLOW RATE (Nm³/hr) 50890.7
 DIAMETER OF STACK AT PORTHOLE (m) 1.38
 *APCM STATUS AT THE TIME OF SAMPLING ESP - ON Condition

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
1	OXIDES OF NITROGEN NOx (as NO ₂)	IS 11255 PART 7 2005 (R 2017)	mg/Nm ³	101
2	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985 (R 2019)	mg/Nm ³	60
3	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985 (R 2019)	mg/Nm ³	41.3
4	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	ppm	BDL (DL 2.0)
5	CARBON DIOXIDE (CO ₂)		%	14.1
6	OXYGEN (O ₂)		%	5.9


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For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory
G. MANIKANDAN
 Head, Environment Division
 VICHEMICAL

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Page 1 of 2

A Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com www.ctllabs.in

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-22649/2024-25 & 30.05.2024
-----------------------	-------------------------------------

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
7	MOISTURE CONTENT	IS 11255 PART 3 2009	%	L7
8	HYDROGEN SULPHIDE(H ₂ S)	IS 11255 PART 4 2006	ppm	B

BDL- Below Detection Limit , D.L-Detection Limit

END OF REPORT


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G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

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Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com www.cllabs.in

TEST REPORT

Test Report No & Date	CTL/CII/N-24943/2024-25 & 03.07.2024
Sample Number	N-24943/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Stack Emission
Sample Description	Emission Monitoring For Process Stacks
Sampling Location	Stack attached with SODA RECOVERY BOILER
Sample Drawn on	24.06.2024
Sample Received on	27.06.2024
Sampling Plan & Procedure	CTL/QSP/P-89 & IS 11255
Sample Quantity	1 No
Equipment used for Sampling	Stack Kit 288 DTI 2020
Analysis Started on	27.06.2024
Analysis Completed on	03.07.2024

PHYSICAL PARAMETERS

STACK HEIGHT (m)	103
STACK TEMPERATURE (K)	432.0
STACK VELOCITY (m/s)	13.8
STACK GAS FLOW RATE (Nm ³ /hr)	51082.1
DIAMETER OF STACK AT PORTHOLE (m)	1.30
*APCM STATUS AT THE TIME OF SAMPLING	ESP - ON Condition

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
1	OXIDES OF NITROGEN NOx (as NO ₂)	IS 11255 PART 7 2005 (R 2017)	mg/Nm ³	109
2	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985 (R 2019)	mg/Nm ³	52
3	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985 (R 2019)	mg/Nm ³	32.5
4	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 Gas Analyser) (Flue	ppm	DDL(DL:2.0)
5	CARBON DIOXIDE (CO ₂)		%	13.6
6	OXYGEN (O ₂)		%	6.5

For Chennai Testing Laboratory Pvt Ltd

Verified by

The Report shall not be used to make any claims, and for any other purpose.
The Report is correct only for the use of the addressee to whom it is addressed.

Approved Signature
Head - Environment Division
CHENNAI

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 024, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com www.cctlabs.in

TEST REPORT

Test Report No & Date	CTL/CH/N-24943/2024-25 & 03.07.2024
-----------------------	-------------------------------------

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
7	MOISTURE CONTENT	IS 11255 PART 3 2008	%	1.8
8	HYDROGEN SULPHIDE(H ₂ S)	IS 11255 PART 4 2006	ppm	5

BDL - Below Detection Limit, D.L-Detection Limit

END OF REPORT


Verified by

For Chennai Testing Laboratory Pvt Ltd


Authorised Signatory

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 2 of 2

TEST REPORT

Test Report No & Date	CTL/CH/N-26965/2024-25 & 07.08.2024
Sample Number	N-26965/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Stack Emission
Sample Description	Emission Monitoring For Process Stacks
Sampling Location	Stack attached with SODA RECOVERY BOTLER
Sample Drawn on	30.07.2024
Sample Received on	01.08.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 11255
Sample Quantity	1 No
Equipment used for Sampling	Stack Kit 288 DTI 2020
Analysis Started on	01.08.2024
Analysis Completed on	07.08.2024

PHYSICAL PARAMETERS:

STACK HEIGHT (m)	103
STACK TEMPERATURE (K)	433.0
STACK VELOCITY (m/s)	15.6
STACK GAS FLOW RATE (Nm ³ /hr)	57544.6
DIAMETER OF STACK AT PORTHOLE (m)	1.38
*APCM STATUS AT THE TIME OF SAMPLING	ESP - ON Condition


Test Results:

The above sample tested as received, and results are as follows:

SLNO	PARAMETERS	METHOD	UNITS	RESULTS
1	OXIDES OF NITROGEN NO _x (as NO ₂)	IS 11255 PART 7 2005 (R 2017)	mg/Nm ³	77
2	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985 (R 2019)	mg/Nm ³	26
3	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985 (R 2019)	mg/Nm ³	49.8
4	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 Gas Analyser) (Euc	ppm	BDL(DL:2.0)
5	CARBON DIOXIDE (CO ₂)		%	12.1
6	OXYGEN (O ₂)		%	7.2

Verified by 

For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory

G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

TEST REPORT

Test Report No & Date	CTL/CH/N-26965/2024-25 & 07.08.2024
-----------------------	-------------------------------------

SLNO	PARAMETERS	METHOD	UNITS	RESULTS
7	MOISTURE CONTENT	IS 11255 PART 3 2008	%	1.6
8	HYDROGEN SULPHIDE(H ₂ S)	IS 11255 PART 4 2006	ppm	6

BDL- Below Detection Limit, D.L-Detection Limit

END OF REPORT


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For Chennai Testing Laboratory Pvt Ltd


Authorised Signatory

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 2 of 2

TEST REPORT

Test Report No & Date CTL/CH/N-28113/2024-25 & 02.09.2024
Sample Number N-28113/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Stack Emission
Sample Description Emission Monitoring For Process Stacks
Sampling Location Stack attached with SODA RECOVERY BOILER
Sample Drawn on 21.08.2024
Sample Received on 24.08.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 11255
Sample Quantity 1 No
Equipment used for Sampling Stack Kit 200 DTI 2020
Analysis Started on 24.08.2024
Analysis Completed on 02.09.2024

PHYSICAL PARAMETERS:

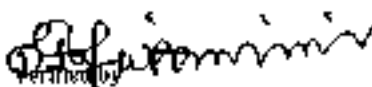
STACK HEIGHT (m) 103
 STACK TEMPERATURE (K) 425.0
 STACK VELOCITY (m/s) 15.5
 STACK GAS FLOW RATE (Nm³/hr) 58086.2
 DIAMETER OF STACK AT PORTHOLE (m) 1.38
 *APCM STATUS AT THE TIME OF SAMPLING ESP - ON Condition

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
1	OXIDES OF NITROGEN NOx (as NO ₂)	IS 11255 PART 7 2005 (R.2017)	mg/Nm ³	69
2	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985 (R.2019)	mg/Nm ³	18
3	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985 (R.2019)	mg/Nm ³	56.8
4	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	ppm	BDL(DL:2.0)
5	CARBON DIOXIDE (CO ₂)		%	13.4
6	OXYGEN (O ₂)		%	6.5

For Chennai Testing Laboratory Pvt Ltd



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Head - Environment Division

A - Super 10, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

CIN : U93000TN2000PTC043869

TEST REPORT

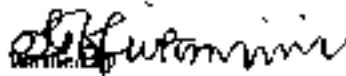
Test Report No & Date	CTL/CH/N-28113/2024-25 & 02.09.2024
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SL NO	PARAMETERS	METHOD	UNITS	RESULTS
7	MOISTURE CONTENT	IS 11255 PART 3 2008	%	2.3
8	HYDROGEN SULPHIDE(H ₂ S)	IS 11255 PART 4 2006	ppm	9

BDL- Below Detection Limit , D L-Detection Limit

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd



Authorized Signatory
G. MANIKANDAN
 Head - Environmental Division
 (CHEMICAL)

Page 2 of 2

CIN - U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29779/2024-25 & 03.10.2024
Sample Number	N-29779/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mandipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Stack Emission
Sample Description	Emission Monitoring For Process Stacks
Sampling Location	Stack attached with SODA RECOVERY BOILER
Sample Drawn on	19.09.2024
Sample Received on	22.09.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 11255
Sample Quantity	1 No
Equipment used for Sampling	Stack Kit 288 DTI 2020
Analysis Started on	23.09.2024
Analysis Completed on	03.10.2024

PHYSICAL PARAMETERS:

STACK HEIGHT (m)	103
STACK TEMPERATURE (K)	441.0
STACK VELOCITY (m/s)	16.0
STACK GAS FLOW RATE (Nm ³ /hr)	57000.3
DIAMETER OF STACK AT PORTHOLE (m)	1.38
*APCM STATUS AT THE TIME OF SAMPLING	ESP - ON Condition

Test Results:

The above sample tested as received, and results are as follows.

DISCIPLINE : CHEMICAL


GROUP : ATMOSPHERIC POLLUTION

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
1	OXIDES OF NITROGEN NO _x (as NO ₂)	IS 11255 (PART 7)	ng/Nm ³	110
2	SULPHUR DIOXIDE (SO ₂)	IS 11255 (PART 2)	mg/Nm ³	31
3	PARTICULATE MATTER (PM)	IS 11255 (PART 1)	mg/Nm ³	54.5
4	CARBON MONOXIDE (CO)	CTL/50P/STACK/10 (Flue Gas Analyser)	ppm	BLQ(LMQ:2.0)
5	CARBON DIOXIDE (CO ₂)		%	12.5
6	OXYGEN (O ₂)		%	7.2


Verified by

For Chennai Testing Laboratory Pvt Ltd

The Report shall be valid only for design, defence and for construction. For any other use, the user shall be responsible. **Authorised Signatory**


C. ANNANDAN
(CHEMICAL)

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com www.ctllabs.in

CIN : U93000TN2000PTC043669

TEST REPORT

Test Report No & Date	CTL/CH/N-29779/2024-25 & 03.10.2024
-----------------------	-------------------------------------

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
7	MOISTURE CONTENT	IS 11255 PART 3 2008	%	1.9
8	HYDROGEN SULPHIDE(H ₂ S)	IS 11255 PART 4 2006	ppm	7

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification:

*****END OF REPORT*****



Verified by

For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 2 of 2

TEST REPORT

Test Report No & Date	CTL/CH/N-21515/2024-25 & 03.05.2024
Sample Number	N-21515/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Stack Emission
Sample Description	Stack Emission
Sampling Location	Stack attached with HARD WOOD ECF HOOD VENT
Sample Drawn on	26.04.2024
Sample Received on	27.04.2024
Sampling Plan & Procedure	CTL/QSP/F-09 & IS 11255
Sample Quantity	1 No
Equipment used for Sampling	Stack Kit 288 DTI 2020
Analysis Started on	27.04.2024
Analysis Completed on	03.05.2024

PHYSICAL PARAMETERS:

STACK HEIGHT (m)	30
STACK TEMPERATURE (K)	341.0
STACK VELOCITY (m/s)	12.7
STACK GAS FLOW RATE (Nm ³ /hr)	78088
DIAMETER OF STACK AT PORTHOLE (m)	0.5
*APCM STATUS AT THE TIME OF SAMPLING	Wet Scrubber - ON Condition


Test Results:

The above sample tested as received, and results are as follows:

JL NO	PARAMETERS	METHOD	UNITS	RESULTS
1	OXIDES OF NITROGEN NOx (as NO ₂)	IS 11255 PART 7 2005 (R 2017)	mg/Nm ³	BDL(DL 5.0)
2	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985 (R 2019)	mg/Nm ³	BDL(DL 3.0)
3	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985 (R 2019)	mg/Nm ³	3.4
4	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	ppm	405
5	CARBON DIOXIDE (CO ₂)		%	0.3
6	OXYGEN (O ₂)		%	20.5

Checked by: 

For Chennai Testing Laboratory Pvt Ltd

The Report shall not be used to register, dispute and for any transaction. This Report is valid only for the use of the customer to purchase the goods.
 Authorized Signatory: 
G. VENKANDAN
 Head (Chemical) Division
 Chennai Testing Laboratory - India
 (CHEMICAL)
 chennaiteestinglab.com

TEST REPORT

Test Report No & Date	CTL/CH/N-21515/2024-25 & 03.05.2024
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SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
7	HYDROCHLORIC ACID MIST (HCL)	CTL/SOP/STACK/27 - 2016	mg/Nm ³	BDL(DL:1.0)
8	CHLORINE DIOXIDE(CLO ₂)	NCA51 -1997	ppm	BDL(DL:0.1)

BDL- Below Detection Limit, D.L-Detection Limit

END OF REPORT



For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory
G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-22651/2024-25 & 30.05.2024
Sample Number N-22651/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Stack Emission
Sample Description Emission Monitoring For Process Stacks
Sampling Location Stack attached with HARD WOOD ECF HOOD VENT
Sample Drawn on 20.05.2024
Sample Received on 24.05.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 11255
Sample Quantity 1 No
Equipment used for Sampling Stack Kit 288 DTI 2020
Analysis Started on 24.05.2024
Analysis Completed on 30.05.2024

PHYSICAL PARAMETERS:

STACK HEIGHT (m) 30
STACK TEMPERATURE (K) 335.0
STACK VELOCITY (m/s) 13.1
STACK GAS FLOW RATE (Nm³/hr) 8194.4
DIAMETER OF STACK AT PORTHOLE (m) 0.5
***APCM STATUS AT THE TIME OF SAMPLING** Wet Scrubber - ON Condition

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
1	OXIDES OF NITROGEN NOx (as NO ₂)	IS 11255 PART 2 2005 (R 2017)	mg/Nm ³	BDL(DL:5.0)
2	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985 (R 2019)	mg/Nm ³	BDL(DL:3.0)
3	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985 (R 2019)	mg/Nm ³	3
4	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	ppm	319
5	CARBON DIOXIDE (CO ₂)		%	0.2
6	OXYGEN (O ₂)		%	20.6



Verified by

For Chennai Testing Laboratory Pvt Ltd

 Authorized Signatory
G. MANIKANDAN
 Head, Environment Division
 (CHEMICAL)

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Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com www.ctllabs.in

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-22651/2024-25 & 30.05.2024
-----------------------	-------------------------------------

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
7	HYDROCHLORIC ACID MIST (HCl)	CTL/SOP/STACK/27 - 2016	mg/Hm ³	BDL(DL:1.0)
8	CHLORINE DIOXIDE(CLO ₂)	NCASI - 1997	ppm	BDL(DL:0.1)

BDL- Below Detection Limit, D.L-Detection Limit

END OF REPORT


Verified by

For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 2 of 2

TEST REPORT

Test Report No & Date: **CTL/CH/N-24944/2024-25 & 03.07.2024**
 Sample Number: **N-24944/24-25**
 Name of the Customer: **M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,**
 Address: **Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.**

Sample Drawn by: **Laboratory**
 Sample Name: **Stack Emission**
 Sample Description: **Emission Monitoring For Process Stacks**
 Sampling Location: **Stack attached with HARD WOOD ECF HOOD VENT**
 Sample Drawn on: **24.06.2024**
 Sample Received on: **27.06.2024**
 Sampling Plan & Procedure: **CTL/QSP/F-09 & IS 11255**
 Sample Quantity: **1 No**
 Equipment used for Sampling: **Stack Kit 200 DTI 2020**
 Analysis Started on: **27.06.2024**
 Analysis Completed on: **03.07.2024**

PHYSICAL PARAMETERS:

STACK HEIGHT (m): **30**
 STACK TEMPERATURE (K): **337.0**
 STACK VELOCITY (m/s): **13.5**
 STACK GAS FLOW RATE (M³/hr): **9370.2**
 DIAMETER OF STACK AT PORTHOLE (m): **0.5**
 *APCM STATUS AT THE TIME OF SAMPLING: **Wet Scrubber - ON Condition**

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
1	OXIDES OF NITROGEN NO _x (as NO ₂)	IS 11255 PART 7 2005 (R 2017)	mg/Nm ³	BDL(DL:5.0)
2	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985 (R 2019)	mg/Nm ³	BDL(DL:3.0)
3	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985 (R 2019)	mg/Nm ³	3.9
4	CARBON MONOXIDE (CO)	CTL/SOP/STACK/L0-2016 (Flue Gas Analyser)	ppm	642
5	CARBON DIOXIDE (CO ₂)		%	0.1
6	OXYGEN (O ₂)		%	20.2

For Chennai Testing Laboratory Pvt Ltd

Verified by

Authorized Signatory
STANIKANDAN
 Head, Environmental Section
 Chennai, Tamil Nadu - India

The Report shall not be used as a charge, defence or for any other purpose.
 The Report is valid only for the use of the customer to provide the service.

A - Super 19, T.V.K Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

TEST REPORT

Test Report No & Date	CTL/CH/N-24944/2024-25 & 03.07.2024
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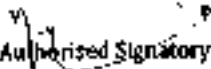
SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
7	HYDROCHLORIC ACID MIST (HCL)	CTL/SOP/STACK/27 - 2016	mg/Nm ³	BDL(DL:1.0)
8	CHLORINE DIOXIDE(CLO ₂)	NCASI - 1997	ppm	BDL(DL:0.1)

BDL- Below Detection Limit, DL-Detection Limit

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd


Verified by:


Authorized Signatory

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 2 of 2

CIN : U93000TN2000PTC043860

TEST REPORT

Test Report No & Date	CTL/CH/N-26967/2024-25 & 07.08.2024
Sample Number	N-26967/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Stack Emission
Sample Description	Emission Monitoring For Process Stacks
Sampling Location	Stack attached with HARD WOOD ECF HOOD VENT
Sample Drawn on	30.07.2024
Sample Received on	01.08.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 11255
Sample Quantity	1 No
Equipment used for Sampling	Stack Kit 288 DTI 2020
Analysis Started on	01.08.2024
Analysis Completed on	07.08.2024

PHYSICAL PARAMETERS:

STACK HEIGHT (m)	30
STACK TEMPERATURE (K)	339.0
STACK VELOCITY (m/s)	14.0
STACK GAS FLOW RATE (Nm ³ /hr)	8654.3
DIAMETER OF STACK AT PORTHOLE (m)	0.5
*APOM STATUS AT THE TIME OF SAMPLING	Wet Scrubber - ON Condition

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
1	OXIDES OF NITROGEN NO _x (as NO ₂)	IS 11255 PART 7 2005 (R 2017)	mg/Nm ³	BDL(DL:5.0)
2	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985 (R 2019)	mg/Nm ³	BDL(DL:3.0)
3	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985 (R 2019)	mg/Nm ³	5
4	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	ppm	014
5	CARBON DIOXIDE (CO ₂)		%	0.2
6	OXYGEN (O ₂)		%	20.5


Verified by

For Chennai Testing Laboratory Pvt Ltd

The report shall not be used as an official document and for any other purpose.
The report is valid only for the use of the customer to whom it is issued.
Authorized Signatory
G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 042, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail . chennaiesting@chennaiestinglab.com www.ctllabs.in

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-26967/2024-25 & 07.08.2024
----------------------------------	--

SLNO	PARAMETERS	METHOD	UNITS	RESULTS
7	HYDROCHLORIC ACID MIST (HCL)	CTL/SOP/STACK/27 - 2016	mg/Nm ³	BDL(DL:1.0)
8	CHLORINE DIOXIDE(CLO ₂)	NCASI -1997	ppm	BDL(DL:0.1)

BDL - Below Detection Limit, D L - Detection Limit

END OF REPORT

[Signature]
Verified by

For Chennai Testing Laboratory Pvt Ltd

[Signature]
Authorised Signatory
G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-28114/2024-25 & 02.09.2024
Sample Number N-28114/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, KPeriyapatti Post, Manapparal Taluk,
 Trichy District - 621 306, Tamil Nadu

Sample Drawn by Laboratory
Sample Name Stack Emission
Sample Description Emission Monitoring For Process Stacks
Sampling Location Stack attached with HARD WOOD ECF HOOD VENT
Sample Drawn on 22.08.2024
Sample Received on 24.08.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 11255
Sample Quantity 1 No
Equipment used for Sampling Stack Kit 200 DTI 2020
Analysis Started on 24.08.2024
Analysis Completed on 02.09.2024

PHYSICAL PARAMETERS:

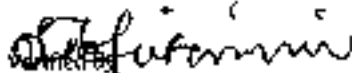
STACK HEIGHT (m) 30
STACK TEMPERATURE (K) 342.0
STACK VELOCITY (m/s) 14.2
STACK GAS FLOW RATE (Nm³/hr) 8702.2
DIAMETER OF STACK AT PORTHOLE (m) 0.5
***APCM STATUS AT THE TIME OF SAMPLING** Wet Scrubber - ON Condition

Test Results:

The above sample tested as received, and results are as follows:

SL-NO	PARAMETERS	METHOD	UNITS	RESULTS
1	OXIDES OF NITROGEN NO _x (as NO ₂)	IS 11255 PART 7 2005 (R 2017)	mg/Nm ³	BDL(DL:5.0)
2	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985 (R 2019)	mg/Nm ³	BDL(DL:3.0)
3	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985 (R 2019)	mg/Nm ³	48
4	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	ppm	713
5	CARBON DIOXIDE (CO ₂)		%	0.3
6	OXYGEN (O ₂)		%	20.5

For Chennai Testing Laboratory Pvt Ltd



Authorized Signatory
G. MANIKANDAN
 Head, Emission Test Division
 (CHEMICAL)

The Report shall not be used to initiate, defend and for any litigation purposes
 The Report is valid only for the use of the addressee to whom it is addressed.

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennaitesting@chennaitestinglab.com www.ctllabs.in

CIN : U93000TN2000PTC043868

TEST REPORT

Test Report No & Date	CTL/CH/N-28114/2024-25 & 02.09.2024
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SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
7	HYDROCHLORIC ACID MIST (HCL)	CTL/SOP/STACK/27 - 2016	mg/Nm ³	BDL(DL:1.0)
8	CHLORINE DIOXIDE(CLO ₂)	NCASI -1997	ppm	BDL(DL:0.1)

BDL- Below Detection Limit, D.L-Detection Limit

END OF REPORT

[Handwritten Signature]
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For Chennai Testing Laboratory Pvt Ltd

[Handwritten Signature]
Authorised Signatory
E. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 2 of 2

TEST REPORT

Test Report No & Date	CTL/CN/N-29780/2024-25 & 03.10.2024
Sample Number	N-29780/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K. Periyapatti Post, Manapparai Taluk, Tiruchy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Stack Emission
Sample Description	Emission Monitoring For Process Stacks
Sampling Location	Stack attached with HARD WOOD ECF HOOD VENT
Sample drawn on	19.09.2024
Sample Received on	22.09.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 11255
Sample Quantity	1 No
Equipment used for Sampling	Stack Kit 288 DTI 2020
Analysis Started on	23.09.2024
Analysis Completed on	03.10.2024

PHYSICAL PARAMETERS:

STACK HEIGHT (m)	30
STACK TEMPERATURE (K)	345.0
STACK VELOCITY (m/s)	142
STACK GAS FLOW RATE (Nm ³ /hr)	8635.5
DIAMETER OF STACK AT PORTHOLE (m)	0.5
*APCM STATUS AT THE TIME OF SAMPLING	Wet Scrubber - ON Condition

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE: CHEMICAL

GROUP : ATMOSPHERIC POLLUTION


SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
1	OXIDES OF NITROGEN NO _x (as NO ₂)	IS 11255 (PART 7)	mg/Nm ³	BLQ(LDQ:5.0)
2	SULPHUR DIOXIDE (SO ₂)	IS 11255 (PART 2)	mg/Nm ³	BLQ(LDQ:3.0)
3	PARTICULATE MATTER(PM)	IS 11255 (PART 1)	mg/Nm ³	6.3
4	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10 (Flue Gas Analyser)	ppm	819
5	CARBON DIOXIDE (CO ₂)		%	0.4
6	OXYGEN (O ₂)		%	20.1


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For Chennai Testing Laboratory Pvt Ltd

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The Report is valid only for the use of the addressee to whom it is addressed.

Authorised Signatory

MANKANDAN
Head - Emission Monitoring
(CHEMICAL)

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 027, Tamil Nadu - India

Page 1 of 2

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TEST REPORT

Test Report No & Date	CTL/CH/N-29780/2024-25 & 03.10.2024
-----------------------	-------------------------------------

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
7	HYDROCHLORIC ACID MIST (HCL)	CTL/SOP/STACK/2?	mg/Nm ³	BLQ(LOQ:1.0)
8	CHLORINE DIOXIDE(CLO ₂)	NCASI -1997	ppm	BLQ(LOQ:0.1)

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification.

END OF REPORT


Verified by

For Chennai Testing Laboratory Pvt Ltd


Authorized Signatory

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Air Pollution Control (APC) system at TNPL - II

Fugitive Emission Control Measures

Dust Extraction system at transfer points



Closed Coal Shed



Fugitive Emission Control Measures

Closed belt conveyors used to transport coal from stock yard to boiler

Closed transfer of coal between conveyors



Closed hoods for coal conveyors



Fugitive Emission Control Measures

Water sprinkling system at coal storage yard



Mobile road dust cleaning machine



Air Pollution Control Measures

Power Boiler

Power Boiler Stack of
height 100 m



Power Boiler Electro Static Precipitator
(ESP) – 1&2



Air Pollution Control Measures

Recovery Boiler & Lime Kiln

Recovery boiler Stack of height 90 m with ESP



Lime kiln stack of height 54.8 m with ESP



STATUS OF IMPLEMENTATION OF CREP ACTION POINTS AS EVOLVED BY CPCB

S.NO	RESPONSIBILITY	IMPLEMENTATION SCHEDULE	STATUS OF COMPLIANCE
01.	Discharge of AOX kg/tonne of paper	AOX 1.5 Kg/tonne of paper within 2 years AOX 1.0 Kg/tonne of paper within 5 years	AOX for the period Apr'24 to Sep'24 is 0.02 kg/t of paper board which is well within the norms of 1.5Kg/tonne of Paper.
02.	Installation of lime kiln	Within 4 years	Lime Kiln with lime sludge reburning of capacity 250TPD is installed along with MEP and is in operation.
03.	Waste water discharge cu. M / tonne of paper	Less than 140 Cu. M / tonne of paper within 2 years. Less than 120 Cu. M / tonne in 4 years for units installed before 1992. Less than 100 Cu. M / tonne of paper per units installed after 1992.	The average waste water discharge per ton of paper production is maintained around 11 m ³ /Mt of paper produced.
04.	Odour control by burning the reduced sulfur emissions in the boiler/lime-kiln	Installation of odour control system within 4 years.	A full fledged Odour control system installed with collection and incineration of DNCG and CNCG firing is in place.
05.	Utilization of treated effluent for irrigation	Utilization of treated effluent for irrigation wherever possible	The treated effluent is fully utilized to irrigate 6.63 Lakhs of tree saplings in 674.64 Acres earmarked for green belt development including housing colony located in the Mondipatti Village and additional lands located in K. Periyapatti and Chettichatram through Drip irrigation.
06.	Color removal from the effluent	Indian Paper Manufacturers Association to take up project with Central Pulp & Paper Research Institute	The Raw effluent from the Pulpmill and Board Machine being treated in the Effluent Treatment plant consisting of Physico Chemical Treatment, Biological Treatment and followed by Dissolved Air Floatation Process (DAF) for colour reduction in the treated Effluent.


GENERAL MANAGER
R&D AND QC

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-29806/2024-25 & 04.10.2024
Sample Number N-29806/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Effluent Water
Sample Description Treated Effluent Water
Sampling Location Final Treated Effluent
Sample Drawn on 21.09.2024
Sample Received on 22.09.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.1°C and Humidity- 57.2%
Equipment used for Sampling NA
Analysis Started on 23.09.2024
Analysis Completed on 04.10.2024

Test Results:

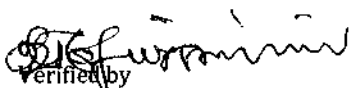
The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL

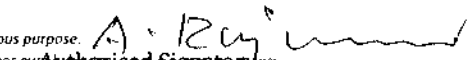
GROUP : POLLUTION AND ENVIRONMENT

S.NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	4500 H+ B- APHA 24th Edn	-	7.3	5.5 to 9.0
2	Colour	2120 B- APHA 24th Edn	HU	5	-
3	Total Dissolved Solids	2540 C- APHA 24th Edn	mg/l	1620	Max.2100
4	Total Suspended Solids	2540 D- APHA 24th Edn	mg/l	16	Max.200
5	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)	mg/l	20	Max.100
6	Chemical Oxygen Demand (COD)	5220 B- APHA 24th Edn	mg/l	84	-
7	Chloride as Cl	4500 Cl- B- APHA 24th Edn	mg/l	405	Max.600
8	Sulphate as SO ₄	4500 SO ₄ E- APHA 24th Edn	mg/l	408	Max.1000
9	Oil & Grease	5520 O&G B - APHA 24th Edn (Partition Gravimetric Method)	mg/l	< 2	Max.10
10	Ammonical Nitrogen as N	4500 NH ₃ B, C - APHA 24th Edn	mg/l	3.9	Max.50
11	Total Nitrogen as N	4500 - N - APHA 24th Edn	mg/l	11.2	-
12	Total Kjeldahl Nitrogen as N	4500 N - B, C- APHA 24th Edn	mg/l	7.5	-
13	Phenolic Compounds as C ₆ H ₅ OH	5530 B,C- APHA 24th Edn	mg/l	BLQ(LOQ:0.001)	-
14	Percent Sodium	CTL/SOP/WATER/60	%	54.06	Max.60
15	Sulphide as S	4500- S2 -F- APHA 24th Edn	mg/l	BLQ(LOQ:0.1)	-

For Chennai Testing Laboratory Pvt Ltd

Verified by 

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 The Report is meant only for sole use of the addressee to promote his/her business.


A. RAJKUMAR
 Head - Water & Soil Division
 (CHEMICAL)

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu, India

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29806/2024-25 & 04.10.2024
----------------------------------	--

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
16	Total Organic Carbon (TOC)	5310-C-APHA 24th Edn	mg/l	31.57	-
17	AOX	EPA 1653, 5021& 8260	mg/l	1.2	-

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification; Max. - Maximum.

*Limits as per TNPCB Norms for Trade Effluent

*****END OF REPORT*****

For Chennai Testing Laboratory Pvt Ltd

[Signature]
Verified by

[Signature]
Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)


Page 2 of 2

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AOX Calculation for the period Apr'24 to Sep'24		
Details	UOM	Values
Total Treated Effluent Apr'24 to Sep' 2024	m3	1490960.00
Total Treated Effluent Apr'24 to Sep' 2024	Ltr	1490960000.00
Total Board Production from Apr'24 to Sep' 2024	MT	103849.00
Average AOX for the period from Apr'24 to Sep' 2024	mg/l	1.47
AOX discharged for the total treated effluent for the period from Apr'24 to Sep' 2024	mg	2191711200.00
AOX discharged for the total treated effluent for the period from Apr'24 to Sep' 2024	kg	2191.71
AOX discharged per ton of Board Production for the period from Apr'24 to Sep' 2024	kg/t of board	0.02


 GENERAL MANAGER
 R&D AND QC
 TAMILNADU NEWSPRINT AND PAPERS LIMITED
 (BOARD DIVISION)
 MONDIPATTI, K.PERIYAPATTI (PO),
 MANAPPARAI (TK), TRICHY (DT)-621306.

Photograph of Road Sweeping Machine at TNPL Unit - II



Wind Shelter Fence near Coal Yard



TNPL Unit - II Two Stage Oxygen Delignification (ODL) Reactors installed at Hardwood Pulpmill

Brief Description about Two stage oxygen Delignification (ODL) reactors installed at Hardwood

Pulpmill:

The oxygen delignification process is performed at medium consistency. The active chemicals are oxygen and alkali, charged either as oxidised white liquor or caustic soda.

The oxygen delignification stage removes a large portion of the lignin that remains in the pulp after cooking. This significantly reduces the amount of chemicals that must be used in the bleach plant to reach the final target brightness and the environmental impact of the effluent.

The chemicals applied to the pulp in the oxygen delignification stage and the material removed from the pulp in the brown stock and the oxygen delignification area is compatible with the black liquor recovery system.



CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-29806/2024-25 & 04.10.2024
Sample Number N-29806/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Effluent Water
Sample Description Treated Effluent Water
Sampling Location Final Treated Effluent
Sample Drawn on 21.09.2024
Sample Received on 22.09.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.1°C and Humidity- 57.2%
Equipment used for Sampling NA
Analysis Started on 23.09.2024
Analysis Completed on 04.10.2024

Test Results:

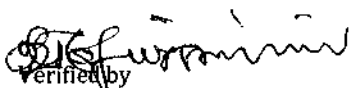
The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL

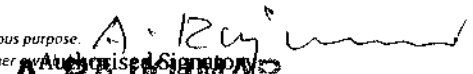
GROUP : POLLUTION AND ENVIRONMENT

S.NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	4500 H+ B- APHA 24th Edn	-	7.3	5.5 to 9.0
2	Colour	2120 B- APHA 24th Edn	HU	5	-
3	Total Dissolved Solids	2540 C- APHA 24th Edn	mg/l	1620	Max.2100
4	Total Suspended Solids	2540 D- APHA 24th Edn	mg/l	16	Max.200
5	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)	mg/l	20	Max.100
6	Chemical Oxygen Demand (COD)	5220 B- APHA 24th Edn	mg/l	84	-
7	Chloride as Cl	4500 Cl- B- APHA 24th Edn	mg/l	405	Max.600
8	Sulphate as SO ₄	4500 SO ₄ E- APHA 24th Edn	mg/l	408	Max.1000
9	Oil & Grease	5520 O&G B - APHA 24th Edn (Partition Gravimetric Method)	mg/l	< 2	Max.10
10	Ammonical Nitrogen as N	4500 NH ₃ B, C - APHA 24th Edn	mg/l	3.9	Max.50
11	Total Nitrogen as N	4500 - N - APHA 24th Edn	mg/l	11.2	-
12	Total Kjeldahl Nitrogen as N	4500 N - B, C- APHA 24th Edn	mg/l	7.5	-
13	Phenolic Compounds as C ₆ H ₅ OH	5530 B,C- APHA 24th Edn	mg/l	BLQ(LOQ:0.001)	-
14	Percent Sodium	CTL/SOP/WATER/60	%	54.06	Max.60
15	Sulphide as S	4500- S2 -F- APHA 24th Edn	mg/l	BLQ(LOQ:0.1)	-

For Chennai Testing Laboratory Pvt Ltd

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 A. RAJKUMAR
 Head - Water & Soil Division
 (CHEMICAL)

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu, India

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29806/2024-25 & 04.10.2024
----------------------------------	--

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
16	Total Organic Carbon (TOC)	5310-C-APHA 24th Edn	mg/l	31.57	-
17	AOX	EPA 1653, 5021& 8260	mg/l	1.2	-

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification; Max. - Maximum.

*Limits as per TNPCB Norms for Trade Effluent

*****END OF REPORT*****

For Chennai Testing Laboratory Pvt Ltd

[Signature]
Verified by

[Signature]
Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)


Page 2 of 2

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Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com www.ctllabs.in

AOX Calculation for the period Apr'24 to Sep'24		
Details	UOM	Values
Total Treated Effluent Apr'24 to Sep' 2024	m3	1490960.00
Total Treated Effluent Apr'24 to Sep' 2024	Ltr	1490960000.00
Total Board Production from Apr'24 to Sep' 2024	MT	103849.00
Average AOX for the period from Apr'24 to Sep' 2024	mg/l	1.47
AOX discharged for the total treated effluent for the period from Apr'24 to Sep' 2024	mg	2191711200.00
AOX discharged for the total treated effluent for the period from Apr'24 to Sep' 2024	kg	2191.71
AOX discharged per ton of Board Production for the period from Apr'24 to Sep' 2024	kg/t of board	0.02

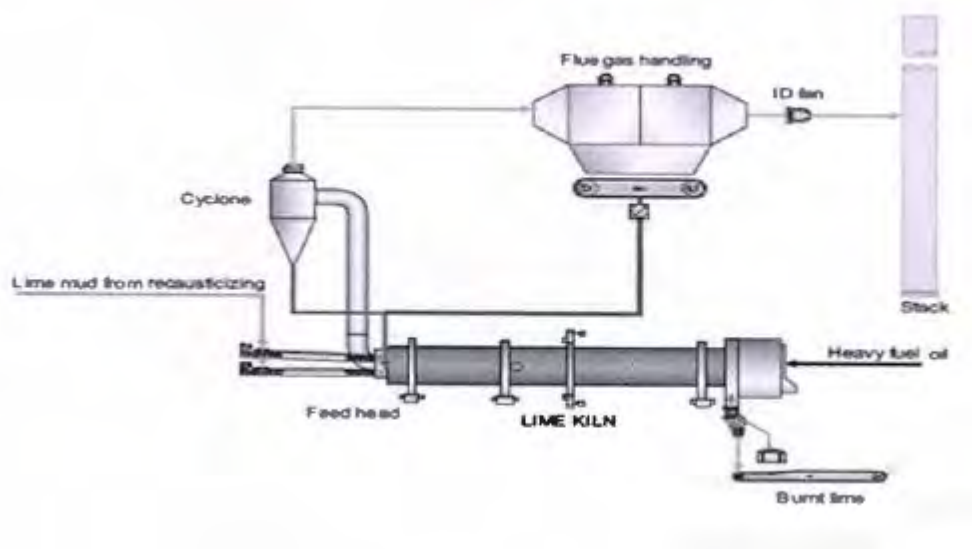

 GENERAL MANAGER
 R&D AND QC
 TAMILNADU NEWSPRINT AND PAPERS LIMITED
 (BOARD DIVISION)
 MONDIPATTI, K.PERIYAPATTI (PO),
 MANAPPARAI (TK), TRICHY (DT)-621306.

TNPL Unit - II ECF Bleaching in Hardwood Pulpmill

Brief Description on ECF Bleaching adopted in Hardwood Pulpmill:


The oxygen Delignified pulp is bleached with the sequence DO(EP)D. The bleaching chemicals used include chlorine dioxide, D, (ClO₂), alkali, E, (NaOH), and Hydrogen Peroxide, P, (H₂O₂). The bleaching sequence consists of two parts, i.e. prebleaching, DO(EP), and final bleaching, D1.

Brief Description on Lime Kiln installed in Chemical Recovery Plant:



The Lime mud re - burning is the process of converting the lime mud (Calcium Carbonate) generated in the Causticizing plant to burnt lime (Calcium Oxide). The calcium carbonate in the feed mud to the kiln ranges typically from 88% to 92%, depending upon the makeup stone usages and the impurities carried from the pulping process. From the lime mud storage tank, lime mud is fed to lime mud filter. De-watered mud and filtrate is separated in filters. Filtrate is fed into weak white liquor tank, Lime mud washer to enhance the mud washing. Dewatered mud along with the makeup lime stone is fed through screw feeder to the feed end of lime kiln. Furnace oil is pumped from main storage oil tank to day oil tank. At discharge end, Furnace oil is fired into Lime Kiln for calcinations. The flue gas passes through Electrostatic Precipitator (ESP) and the dust collected in ESP is fed back to system. The following action takes place in Lime Kilns sequence: Drying, Heating, Calcination & Cooling. After cooling, the re-burned lime is transferred to storage bins through conveying system.




GENERAL-MANAGER
R&D AND QC
TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K.PERIYAPATTI (PO),
MANAPPARAI (TK), TRICHY (DT)-621306.

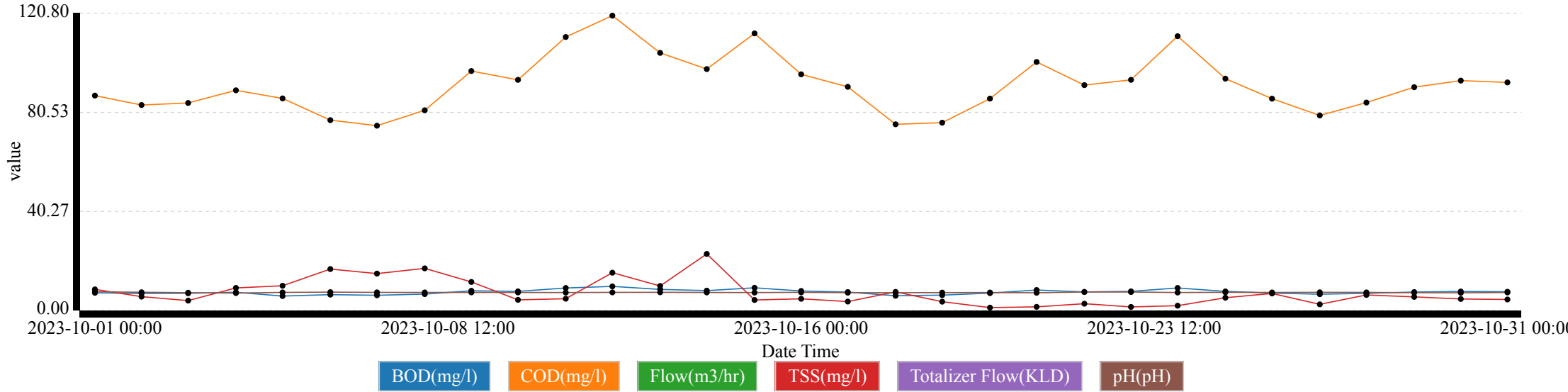
Average Report

TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT 2, Manaparai

Created By:- TNPL2, Created At:- 2024-03-29 11:15:23

From : 2023-10-01 00:00, To: 2023-10-31 00:00

ETP_Outlet-daily - Average Data





CFC/FT-01/7.8/R7

CALIBRATION CERTIFICATE
Centre for Calibration
NAGMAN CALIBRATION SERVICES LLP

No.168/7, Chennai-Bangalore National Highway,
Chembarambakkam, Chennai - 600 123. Tamil Nadu, INDIA.
Email : cfcchennai@nagman.com, calibration@nagman.com
Website : www.nagman-calibration.com



CC-2548

ULR-CC254824000004261F		Certificate Number : CFC2024-448-FS/1	
Date of Issue : 04.03.2024			
Customer Name And Address		M/s.Tamil Nadu Newsprint and Papers Limited, Unit-II, Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamilnadu.	
Customer Reference		P.O.No. TEC/222325006371 Dated 18.01.2023	
Details of the Instrument			
Location	On Land Irrigation		
Machine Name / Number	-		
Description	Electromagnetic Flow meter		
Make	ABB		
Model	Process Master 632		
Serial Number	3K822100173222		
Identification Number	-		
Range	0 to 4500 m ³ /hr		
Operating Range	-		
Resolution	0.01 m ³ /hr		
Size	DN 400		
Medium	Water		
Accuracy	Not specified		
Equipment received on	On Site		
Condition of the equipment on receipt	Good		
Calibration Procedure Number	CFC/WI-F05		
Method of Calibration	Comparison Method		
Date of Calibration	19.02.2024		
Date of Next Calibration Suggested	19.02.2025		
Calibration Environments			
Temperature	29.8°C		
Relative Humidity	53%		
Master Instrument Details (The Standards used are traceable to National / International Standards)			
Nomenclature	Certificate No.	Validity	Traceability
Ultrasonic Flowmeter	CFC2023-2428-FL/2	21-Sep-24	NAGMAN

Remarks

- The above UUC was calibrated at Site.
- UUC is defined as Unit Under Calibration.
- The above equipment was calibrated by Mr.S.Gaius Paul.
- The calibration certificate shall not be reproduced except in full without written approval of CFC.
- The calculated expanded uncertainty includes repeatability, resolution & uncertainty on measurements.
- The measurement results relate only to the item calibrated.
- The decision rule will be applied based on Statement of Conformity requested by the Customer.
- The results are provided as observed without any adjustments.
- The Uncertainty stated is the expanded uncertainty of measurement obtained by multiplying the standard uncertainty by the coverage factor correspond to confidence level of 95%.

Checked By

P.Raju
Team Member



SCOPE



CERTIFICATE

Authorised Signatory

D.Arun
Team Leader



ULR-CC25482400004261F	Certificate Number : CFC2024-448-FS/1
-----------------------	---------------------------------------

CALIBRATION DATA

Fluid Flow : Flow Measuring Devices

Test Reading (UUC) (Mean)	Standard Reading	Error	Expanded Uncertainty ±	Coverage Factor
m ³ /hr	m ³ /hr	%	(%)	<i>k</i>
149.83	149.37	0.308	2.10	2.00
217.56	216.82	0.341	2.10	2.00
267.62	266.93	0.258	2.10	2.00

Remarks

- 10. % Error = Test Reading - Standard Reading / Standard Reading *100
- 11. No deviation or exclusion from the calibration method.

Checked By

P.Raju
Team Member

Authorised Signatory

D.Arun
Team Leader

----- End of the Report -----



CFC/FT-01/7.8/R7

CALIBRATION CERTIFICATE
Centre for Calibration
NAGMAN CALIBRATION SERVICES LLP

No.168/7, Chennai-Bangalore National Highway,
Chembarambakkam, Chennai - 600 123. Tamil Nadu, INDIA.
Email : cfcchennai@nagman.com, calibration@nagman.com
Website : www.nagman-calibration.com



CC-2548

ULR-CC254824000004264F		Certificate Number : CFC2024-448-FS/4	
Date of Issue : 04.03.2024			
Customer Name And Address		M/s.Tamil Nadu Newsprint and Papers Limited, Unit-II, Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamilnadu.	
Customer Reference		P.O.No. TEC/222325006371 Dated 18.01.2023	
Details of the Instrument			
Location	Internal Plantation		
Machine Name / Number	-		
Description	Electromagnetic Flow meter		
Make	Yokogawa		
Model	AXEA14G-E1-21		
Serial Number	S5R903937-534		
Identification Number	FT-9775		
Range	Vide Respective Calibration Table		
Operating Range	-		
Resolution	0.1 m ³ /hr		
Size	DN 150		
Medium	Water		
Accuracy	Not specified		
Equipment received on	On Site		
Condition of the equipment on receipt	Good		
Calibration Procedure Number	CFC/WI-F05		
Method of Calibration	Comparison Method		
Date of Calibration	19.02.2024		
Date of Next Calibration Suggested	19.02.2025		
Calibration Environments			
Temperature	29.8°C		
Relative Humidity	53%		
Master Instrument Details (The Standards used are traceable to National / International Standards)			
Nomenclature	Certificate No.	Validity	Traceability
Ultrasonic Flowmeter	CFC2023-2428-FL/2	21-Sep-24	NAGMAN

Remarks

1. The above UUC was calibrated at Site.
2. UUC is defined as Unit Under Calibration.
3. The above equipment was calibrated by Mr.S.Gaius Paul.
4. The calibration certificate shall not be reproduced except in full without written approval of CFC.
5. The calculated expanded uncertainty includes repeatability, resolution & uncertainty on measurements.
6. The measurement results relate only to the item calibrated.
7. The decision rule will be applied based on Statement of Conformity requested by the Customer.
8. The results are provided as observed without any adjustments.
9. The Uncertainty stated is the expanded uncertainty of measurement obtained by multiplying the standard uncertainty by the coverage factor correspond to confidence level of 95%.

Checked By

P.Raju
Team Member



SCOPE



CERTIFICATE

Authorised Signatory

D.Arun
Team Leader



ULR-CC25482400004264F

Certificate Number : CFC2024-448-FS/4

CALIBRATION DATA

Fluid Flow : Flow Measuring Devices

Test Reading (UUC (Mean)	Standard Reading	Error	Expanded Uncertainty ±	Coverage Factor
m ³ /hr	m ³ /hr	%	(%)	<i>k</i>
39.4	39.260	0.357	2.10	2.00
41.7	41.549	0.363	2.10	2.00

Remarks

10. % Error = Test Reading - Standard Reading / Standard Reading *100
11. No deviation or exclusion from the calibration method.

Checked By

P.Raju
Team Member

Authorised Signatory

D.Arun
Team Leader

----- End of the Report -----

Certificate No: CTL/CEQMS/001

Customer Name & Address M/s Tamilnadu Newsprint and Paper Ltd,unit –II, Mondipatti village,K.periyapatti post,Manapparai Taluk,Trichy-621306	Date of Calibration	18.9.2024
	Calibration Due Date	17.9.2025
	Analyser Make/model	ABB/ AWT 420
	Range	0-14

Results of Calibration

Parameter	CEMS Value	Reference Value	Relative Accuracy(%) Acceptance criteria(≤10%)	Bias (%) Acceptance criteria(≤4%)	Bias Adjustment factor
PH	7.34	6.99	0.86	-1.0	1.0
	7.31	7.18			
	7.22	7.27			
	7.20	7.23			
	7.15	7.33			
	7.12	7.11			
	6.96	7.14			
	7.12	7.21			
	7.22	7.10			

Since Bias and Relative accuracy is within acceptance criteria and analyser performance on this particulate is working well. Presently all the values are transmitting to SPCB / CPCB as raw value and needs to be converted into CPCB.

Signature




Certificate No: CTL/CEQMS/003

Customer Name & Address M/s Tamilnadu Newsprint and Paper Ltd,unit –II, Mondipatti village,K.periyapatti post,Manapparai Taluk,Trichy-621306	Date of Calibration	18.9.2024
	Calibration Due Date	17.9.2025
	Analyser Make/model	Endress Hauser/CAS51D
	Range	0-500mg/L
Results of Calibration		

Parameter	CEMS Value	Reference Value	Relative Accuracy(%) Acceptance criteria(≤10%)	Bias (%) Acceptance criteria(≤4%)	Bias Adjustment factor
BOD(mg/L)	8.0	9.0	0.5	0.41	1.089
	7.9	8.5			
	8.1	9.5			
	8.7	9.8			
	9.0	9.6			
	9.6	10.0			
	9.9	10.5			
	10.0	10.8			
	9.3	10.0			

Since Bias and Relative accuracy is within acceptance criteria and analyser performance on this particulate is working well. Presently all the values are transmitting to SPCB / CPCB as raw value and needs to be converted into CPCB.

Signature




Certificate No: CTL/CEQMS/004

Customer Name & Address M/s Tamilnadu Newsprint and Paper Ltd,unit –II, Mondipatti village,K.periyapatti post,Manapparai Taluk,Trichy-621306	Date of Calibration	18.9.2024
	Calibration Due Date	17.9.2025
	Analyser Make/model	Endress Hauser/CAS51D
	Range	0-500mg/L

Results of Calibration

Parameter	CEMS Value	Reference Value	Relative Accuracy(%) Acceptance criteria(≤10%)	Bias (%) Acceptance criteria(≤4%)	Bias Adjustment factor
COD(mg/L)	102.0	103.5	2.11	1.98	1.010
	101.0	102.8			
	104.0	104.5			
	106.0	106.8			
	107.0	108.0			
	110.0	111.0			
	111.0	112.5			
	112.0	112.9			
	117.0	118.5			

Since Bias and Relative accuracy is within acceptance criteria and analyser performance on this particulate is working well. Presently all the values are transmitting to SPCB / CPCB as raw value and needs to be converted into CPCB.

Signature




Certificate No: CTL/CEQMS/002

Customer Name & Address M/s Tamilnadu Newsprint and Paper Ltd,unit –II, Mondipatti village,K.periyapatti post,Manapparai Taluk,Trichy-621306	Date of Calibration	18.9.2024
	Calibration Due Date	17.9.2025
	Analyser Make/model	Endress Hauser/CUS51D
	Range	0-500mg/L

Results of Calibration

Parameter	CEMS Value	Reference Value	Relative Accuracy(%) Acceptance criteria(≤10%)	Bias (%) Acceptance criteria(≤4%)	Bias Adjustment factor
TSS(mg/L)	4.52	5.4	0.44	0.18	1.355
	4.50	6.2			
	4.50	7.1			
	4.52	4.5			
	4.53	5.5			
	4.52	6.2			
	4.51	6.0			
	4.52	7.0			
	4.53	6.7			

Since Bias and Relative accuracy is within acceptance criteria and analyser performance on this particulate is working well. Presently all the values are transmitting to SPCB / CPCB as raw value and needs to converted in to CPCB.

Signature




CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date **CTL/CH/N-24955/2024-25 & 06.07.2024**
 Sample Number **N-24955/24-25**
 Name of the Customer **M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,**
 Address **Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.**

Sample Drawn by **Laboratory**
 Sample Name **Ground Water**
 Sample Description **Ground Water**
 Sampling Location **Varsha Nagar, Porunthalur Village**
 Sample Drawn on **26.06.2024**
 Sample Received on **27.06.2024**
 Sampling Plan & Procedure **Grab Sample & CTL/QSP/09**
 Sample Quantity **2 Litres**
 Sample Condition **Good & Received in Plastic Container**
 Environmental Conditions **Temperature- 33.8°C and Humidity- 57.3%**
 Equipment used for Sampling **NA**
 Analysis Started on **27.06.2024**
 Analysis Completed on **05.07.2024**

Test Results:

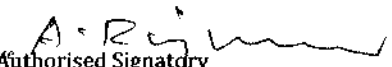
The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS : 3025 (Part 4)- 2021	HU	2
2	Odour	IS : 3025 (Part 5) - 2018	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	7.6
4	Taste	IS 3025 (Part 8)-1984 (R.2017)	-	Agreeable
5	Turbidity	IS 3025 (Part 10)-1984 (R.2017)	NTU	2
6	Total Dissolved Solids	IS 3025 (Part 16)-1984 (RA.2017)	mg/l	1130
7	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2019)	mg/l	107
8	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2019)	mg/l	320
9	Fluoride as F ⁻	IS 3025 (Part 60)-2008 (R.2019)	mg/l	0.35
10	Iron as Fe	IS 3025 (Part 53)-2003 (R.2019)	mg/l	0.07
11	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2019)	mg/l	36
12	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1) 2022	mg/l	BDL(DL:0.001)
13	Sulphate as SO ₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	115
14	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2019)	mg/l	410
15	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2019)	mg/l	415
16	Cyanide as CN ⁻	IS 3025 (Part 27/Sec-1) - 2021	mg/l	BDL(DL:0.01)
17	Total Suspended Solids	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	4
18	Residual Free Chlorine	IS 3025 (Part 26)-2021	mg/l	BDL(DL:0.1)
19	Chromium as Cr	IS 3025 (Part 52)-2003 (RA.2019)	mg/l	BDL(DL:0.01)
20	Mercury as Hg	IS 3025 (Part 48)-1994 (RA.2019)	mg/l	BDL(DL:0.001)
21	Arsenic as As	IS 3025 (Part 37)-1988(RA.2019)	mg/l	BDL(DL:0.001)

For Chennai Testing Laboratory Pvt Ltd

Verified by 

The Report shall not be used to malign, defame and for any malicious purposes.
 The Report is meant only for sole use of the addressee to promote his/her own business.

Authorized Signatory 

A. RAJKUMAR
 Head - Water & Soil Division
 CHEMICAL

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu, India Page 1 of 2

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com | www.ctllabs.in

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-24955/2024-25 & 06.07.2024
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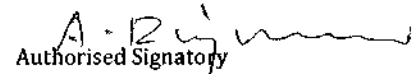
S. NO	PARAMETERS	METHOD	UNITS	RESULTS
22	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	< 2
23	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	< 4
24	Nitrate Nitrogen as N	IS 3025 (Part 34)-1988 (R.2019)	mg/l	6.54
25	Potassium as K	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	15
26	Dissolved Oxygen	IS 3025 (Part 38) - 1989 (RA.2019)	mg/l	7
27	Percent Sodium	CTL/SOP/WATER/60-2022	%	48.97
28	Sodium absorption ratio	IS 11624 - 2019	-	4.09
29	Oil & Grease	IS 3025 (Part 39) - 2021	mg/l	< 2

BDL - Below Detection Limit; DL - Detection limit;

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

Verified by 


Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division

Page 2 of 2

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Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com www.ctllabs.in

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-24954/2024-25 & 06.07.2024
Sample Number N-24954/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ground Water
Sample Description Ground Water
Sampling Location Near West Gate Within Site, Poduvarpatti
Sample Drawn on 26.06.2024
Sample Received on 27.06.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.8°C and Humidity- 57.3%
Equipment used for Sampling NA
Analysis Started on 27.06.2024
Analysis Completed on 05.07.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS : 3025 (Part 4)- 2021	HU	2
2	Odour	IS : 3025 (Part 5) - 2018	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	7.4
4	Taste	IS 3025 (Part 8)-1984 (R.2017)	-	Agreeable
5	Turbidity	IS 3025 (Part 10)-1984 (R.2017)	NTU	< 1
6	Total Dissolved Solids	IS 3025 (Part 16)-1984 (RA.2017)	mg/l	1530
7	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2019)	mg/l	137
8	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2019)	mg/l	440
9	Fluoride as F ⁻	IS 3025 (Part 60)-2008 (R.2019)	mg/l	0.42
10	Iron as Fe	IS 3025 (Part 53)-2003 (R.2019)	mg/l	0.06
11	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2019)	mg/l	46
12	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1) 2022	mg/l	BDL(DL:0.001)
13	Sulphate as SO ₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	156
14	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2019)	mg/l	540
15	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2019)	mg/l	531
16	Cyanide as CN	IS 3025 (Part 27/Sec-1) - 2021	mg/l	BDL(DL:0.01)
17	Total Suspended Solids	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	< 2
18	Residual Free Chlorine	IS 3025 (Part 26)-2021	mg/l	BDL(DL:0.1)
19	Chromium as Cr	IS 3025 (Part 52)-2003 (RA.2019)	mg/l	BDL(DL:0.01)
20	Mercury as Hg	IS 3025 (Part 48)-1994 (RA.2019)	mg/l	BDL(DL:0.001)
21	Arsenic as As	IS 3025 (Part 37)-1988(RA.2019)	mg/l	BDL(DL:0.001)

For Chennai Testing Laboratory Pvt Ltd

Verified by 

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Authorised Signatory

A. RAJKUMAR
 Head of Water Sampling Division
 (CHEMICAL)

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai Head Office, Tamil Nadu, India Page 1 of 2

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com www.ctllabs.in

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-24954/2024-25 & 06.07.2024
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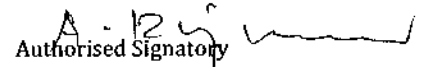
S. NO	PARAMETERS	METHOD	UNITS	RESULTS
22	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	< 2
23	Chemical Oxygen Demand (COD)	IS 3025 (Part 58) -2006 (RA:2017)	mg/l	< 4
24	Nitrate Nitrogen as N	IS 3025 (Part 34) -1988 (R.2019)	mg/l	6.5
25	Potassium as K	IS 3025 (Part 45) -1993 (RA.2019)	mg/l	20
26	Dissolved Oxygen	IS 3025 (Part 38) - 1989 (RA.2019)	mg/l	7
27	Percent Sodium	CTL/SOP/WATER/60-2022	%	48.96
28	Sodium absorption ratio	IS 11624 - 2019	-	4.63
29	Oil & Grease	IS 3025 (Part 39) - 2021	mg/l	< 2

BDL - Below Detection Limit; DL - Detection limit;

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

Verified by 

Authorised Signatory 

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 2 of 2

The Report shall not be used to malign, defame and for any malicious purpose.
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A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennaitesting@chennaitestinglab.com www.ctllabs.in

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-24953/2024-25 & 06.07.2024
Sample Number	N-24953/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Ground Water
Sample Description	Ground Water
Sampling Location	Mooka Gounder, Pongudipatti
Sample Drawn on	26.06.2024
Sample Received on	27.06.2024
Sampling Plan & Procedure	Grab Sample & CTL/QSP/09
Sample Quantity	2 Litres
Sample Condition	Good & Received in Plastic Container
Environmental Conditions	Temperature- 33.8°C and Humidity- 57.3%
Equipment used for Sampling	NA
Analysis Started on	27.06.2024
Analysis Completed on	05.07.2024

Test Results:


The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS : 3025 (Part 4)- 2021	HU	2
2	Odour	IS : 3025 (Part 5) - 2018	-	Agreeable
3	ph: @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	7.5
4	Taste	IS 3025 (Part 8)-1984 (R.2017)	-	Agreeable
5	Turbidity	IS 3025 (Part 10)-1984 (R.2017)	NTU	< 1
6	Total Dissolved Solids	IS 3025 (Part 16)-1984 (RA.2017)	mg/l	780
7	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2019)	mg/l	75
8	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2019)	mg/l	226
9	Fluoride as F ⁻	IS 3025 (Part 60)-2008 (R.2019)	mg/l	0.15
10	Iron as Fe	IS 3025 (Part 53)-2003 (R.2019)	mg/l	0.05
11	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2019)	mg/l	25
12	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1) 2022	mg/l	BDL(DL:0.001)
13	Sulphate as SO ₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	84
14	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2019)	mg/l	270
15	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2019)	mg/l	290
16	Cyanide as CN	IS 3025 (Part 27/Sec-1) - 2021	mg/l	BDL(DL:0.01)
17	Total Suspended Solids	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	< 2
18	Residual Free Chlorine	IS 3025 (Part 26)-2021	mg/l	BDL(DL:0.1)
19	Chromium as Cr	IS 3025 (Part 52)-2003 (RA.2019)	mg/l	BDL(DL:0.01)
20	Mercury as Hg	IS 3025 (Part 48)-1994 (RA.2019)	mg/l	BDL(DL:0.001)
21	Arsenic as As	IS 3025 (Part 37)-1988(RA.2019)	mg/l	BDL(DL:0.001)

For Chennai Testing Laboratory Pvt Ltd

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Head - Water & Soil Division
(CHEMICAL)

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 037, Tamil Nadu - India Page 1 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-24953/2024-25 & 06.07.2024
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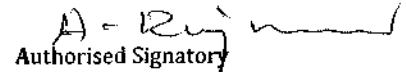
S. NO	PARAMETERS	METHOD	UNITS	RESULTS
22	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	< 2
23	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	< 4
24	Nitrate Nitrogen as N	IS 3025 (Part 34)-1988 (R.2019)	mg/l	2.9
25	Potassium as K	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	12
26	Dissolved Oxygen	IS 3025 (Part 38) - 1989 (RA.2019)	mg/l	6.9
27	Percent Sodium	CTL/SOP/WATER/60-2022	%	49.16
28	Sodium absorption ratio	IS 11624 - 2019	-	3.46
29	Oil & Grease	IS 3025 (Part 39) - 2021	mg/l	< 2

BDL - Below Detection Limit; DL - Detection limit;

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

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A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL) Page 2 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-24951/2024-25 & 06.07.2024
Sample Number	N-24951/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Ground Water
Sample Description	Ground Water
Sampling Location	Ramanaiker, Pongudipatti
Sample Drawn on	26.06.2024
Sample Received on	27.06.2024
Sampling Plan & Procedure	Grab Sample & CTL/QSP/09
Sample Quantity	2 Litres
Sample Condition	Good & Received in Plastic Container
Environmental Conditions	Temperature- 33.8°C and Humidity- 57.3%
Equipment used for Sampling	NA
Analysis Started on	27.06.2024
Analysis Completed on	05.07.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS : 3025 (Part 4)- 2021	HU	2
2	Odour	IS : 3025 (Part 5) - 2018	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	7.6
4	Taste	IS 3025 (Part 8)-1984 (R.2017)	-	Agreeable
5	Turbidity	IS 3025 (Part 10)-1984 (R.2017)	NTU	< 1
6	Total Dissolved Solids	IS 3025 (Part 16)-1984 (RA.2017)	mg/l	784
7	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2019)	mg/l	71
8	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2019)	mg/l	212
9	Fluoride as F ⁻	IS 3025 (Part 60)-2008 (R.2019)	mg/l	0.29
10	Iron as Fe	IS 3025 (Part 53)-2003 (R.2019)	mg/l	0.04
11	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2019)	mg/l	24
12	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1) 2022	mg/l	BDL(DL:0.001)
13	Sulphate as SO ₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	79
14	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2019)	mg/l	266
15	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2019)	mg/l	276
16	Cyanide as CN	IS 3025 (Part 27/Sec-1) - 2021	mg/l	BDL(DL:0.01)
17	Total Suspended Solids	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	< 2
18	Residual Free Chlorine	IS 3025 (Part 26)-2021	mg/l	BDL(DL:0.1)
19	Chromium as Cr	IS 3025 (Part 52)-2003 (RA.2019)	mg/l	BDL(DL:0.01)
20	Mercury as Hg	IS 3025 (Part 48)-1994 (RA.2019)	mg/l	BDL(DL:0.001)
21	Arsenic as As	IS 3025 (Part 37)-1988(RA.2019)	mg/l	BDL(DL:0.001)

For Chennai Testing Laboratory Pvt Ltd

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A-125

A. RAJKUMAR

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Head Office: Water & Soil Division (CHEMICAL) Page 1 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-24951/2024-25 & 06.07.2024
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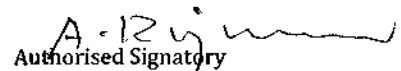
S. NO	PARAMETERS	METHOD	UNITS	RESULTS
22	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	< 2
23	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	< 4
24	Nitrate Nitrogen as N	IS 3025 (Part 34)-1988 (R.2019)	mg/l	5.4
25	Potassium as K	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	11
26	Dissolved Oxygen	IS 3025 (Part 38) - 1989 (RA.2019)	mg/l	7.0
27	Percent Sodium	CTL/SOP/WATER/60-2022	%	48.74
28	Sodium absorption ratio	IS 11624 - 2019	-	3.32
29	Oil & Grease	IS 3025 (Part 39) - 2021	mg/l	< 2

BDL - Below Detection Limit; DL - Detection limit;

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

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A. Rajkumar
Authorised Signatory

A. RAJKUMAR Page 2 of 2
Head - Water & Soil Division
(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-24949/2024-25 & 06.07.2024
Sample Number	N-24949/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Ground Water
Sample Description	Ground Water
Sampling Location	Malayalaga Gounder, Malaimadaipatti, Periyapatti North Village
Sample Drawn on	26.06.2024
Sample Received on	27.06.2024
Sampling Plan & Procedure	Grab Sample & CTL/QSP/09
Sample Quantity	2 Litres
Sample Condition	Good & Received in Plastic Container
Environmental Conditions	Temperature- 33.8°C and Humidity- 57.3%
Equipment used for Sampling	NA
Analysis Started on	27.06.2024
Analysis Completed on	05.07.2024

Test Results:


The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS : 3025 (Part 4)- 2021	HU	2
2	Odour	IS : 3025 (Part 5) - 2018	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	7.4
4	Taste	IS 3025 (Part 8)-1984 (R.2017)	-	Agreeable
5	Turbidity	IS 3025 (Part 10)-1984 (R.2017)	NTU	< 1
6	Total Dissolved Solids	IS 3025 (Part 16)-1984 (RA.2017)	mg/l	1800
7	Caicium as Ca	IS 3025 (Part 40)-1991 (R.2019)	mg/l	124
8	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2019)	mg/l	400
9	Fluoride as F ⁻	IS 3025 (Part 60)-2008 (R.2019)	mg/l	0.20
10	Iron as Fe	IS 3025 (Part 53)-2003 (R.2019)	mg/l	0.11
11	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2019)	mg/l	36
12	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1) 2022	mg/l	BDL(DL:0.001)
13	Sulphate as SO ₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	236
14	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2019)	mg/l	452
15	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2019)	mg/l	457
16	Cyanide as CN	IS 3025 (Part 27/Sec-1) - 2021	mg/l	BDL(DL:0.01)
17	Total Suspended Solids	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	< 2
18	Residual Free Chlorine	IS 3025 (Part 26)-2021	mg/l	BDL(DL:0.1)
19	Chromium as Cr	IS 3025 (Part 52)-2003 (RA.2019)	mg/l	BDL(DL:0.01)
20	Mercury as Hg	IS 3025 (Part 48)-1994 (RA.2019)	mg/l	BDL(DL:0.001)
21	Arsenic as As	IS 3025 (Part 37)-1988(RA.2019)	mg/l	BDL(DL:0.001)

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TEST REPORT

Test Report No & Date	CTL/CH/N-24949/2024-25 & 06.07.2024
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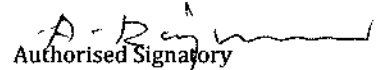
S. NO	PARAMETERS	METHOD	UNITS	RESULTS
22	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	< 2
23	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	< 4
24	Nitrate Nitrogen as N	IS 3025 (Part 34)-1988 (R.2019)	mg/l	5.7
25	Potassium as K	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	36
26	Dissolved Oxygen	IS 3025 (Part 38) - 1989 (RA.2019)	mg/l	7.2
27	Percent Sodium	CTL/SOP/WATER/60-2022	%	49.59
28	Sodium absorption ratio	IS 11624 - 2019	-	6.12
29	Oil & Grease	IS 3025 (Part 39) - 2021	mg/l	< 2

BDL - Below Detection Limit; DL - Detection limit;

*****END OF REPORT*****

For Chennai Testing Laboratory Pvt Ltd

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A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 2 of 2

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date **CTL/CH/N-24950/2024-25 & 06.07.2024**
 Sample Number **N-24950/24-25**
 Name of the Customer **M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,**
 Address **Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.**

Sample Drawn by **Laboratory**
 Sample Name **Ground Water**
 Sample Description **Ground Water**
 Sampling Location **M.Kandhasamy, Pongudipatti**
 Sample Drawn on **26.06.2024**
 Sample Received on **27.06.2024**
 Sampling Plan & Procedure **Grab Sample & CTL/QSP/09**
 Sample Quantity **2 Litres**
 Sample Condition **Good & Received in Plastic Container**
 Environmental Conditions **Temperature- 33.8°C and Humidity- 57.3%**
 Equipment used for Sampling **NA**
 Analysis Started on **27.06.2024**
 Analysis Completed on **05.07.2024**

Test Results:

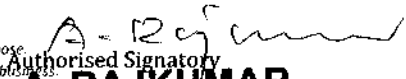
The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS : 3025 (Part 4)- 2021	HU	2
2	Odour	IS : 3025 (Part 5) - 2018	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)-1983 (R.A.2017)	-	8.1
4	Taste	IS 3025 (Part 8)-1984 (R.2017)	-	Agreeable
5	Turbidity	IS 3025 (Part 10)-1984 (R.2017)	NTU	2
6	Total Dissolved Solids	IS 3025 (Part 16)-1984 (R.A.2017)	mg/l	1466
7	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2019)	mg/l	137
8	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2019)	mg/l	410
9	Fluoride as F ⁻	IS 3025 (Part 60)-2008 (R.2019)	mg/l	0.54
10	Iron as Fe	IS 3025 (Part 53)-2003 (R.2019)	mg/l	0.07
11	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2019)	mg/l	46
12	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1) 2022	mg/l	BDL(DL:0.001)
13	Sulphate as SO ₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	158
14	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2019)	mg/l	520
15	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2019)	mg/l	531
16	Cyanide as CN	IS 3025 (Part 27/Sec-1) - 2021	mg/l	BDL(DL:0.01)
17	Total Suspended Solids	IS 3025 (Part 17) -1984 (R.A.2021)	mg/l	4
18	Residual Free Chlorine	IS 3025 (Part 26)-2021	mg/l	BDL(DL:0.1)
19	Chromium as Cr	IS 3025 (Part 52)-2003 (R.A.2019)	mg/l	BDL(DL:0.01)
20	Mercury as Hg	IS 3025 (Part 48)-1994 (R.A.2019)	mg/l	BDL(DL:0.001)
21	Arsenic as As	IS 3025 (Part 37)-1988(R.A.2019)	mg/l	BDL(DL:0.001)

For Chennai Testing Laboratory Pvt Ltd

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 Authorised Signatory
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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-24950/2024-25 & 06.07.2024
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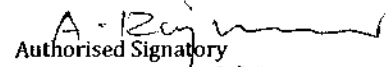
S. NO	PARAMETERS	METHOD	UNITS	RESULTS
22	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	< 2
23	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	< 4
24	Nitrate Nitrogen as N	IS 3025 (Part 34)-1988 (R.2019)	mg/l	7.4
25	Potassium as K	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	22
26	Dissolved Oxygen	IS 3025 (Part 38) - 1989 (RA.2019)	mg/l	6.7
27	Percent Sodium	CTL/SOP/WATER/60-2022	%	48.85
28	Sodium absorption ratio	IS 11624 - 2019	-	4.63
29	Oil & Grease	IS 3025 (Part 39) - 2021	mg/l	< 2

BDL - Below Detection Limit; DL - Detection limit;

END OF REPORT

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A. RAJKUMAR
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(CHEMICAL) Page 2 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-24956/2024-25 & 06.07.2024
Sample Number N-24956/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ground Water
Sample Description Ground Water
Sampling Location Sreenivasan, Ponnampatti
Sample Drawn on 26.06.2024
Sample Received on 27.06.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.8°C and Humidity- 57.3%
Equipment used for Sampling NA
Analysis Started on 27.06.2024
Analysis Completed on 05.07.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS : 3025 (Part 4)- 2021	HU	2
2	Odour	IS : 3025 (Part 5) - 2018	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	7.5
4	Taste	IS 3025 (Part 8)-1984 (R.2017)	-	Agreeable
5	Turbidity	IS 3025 (Part 10)-1984 (R.2017)	NTU	< 1
6	Total Dissolved Solids	IS 3025 (Part 16)-1984 (RA.2017)	mg/l	1270
7	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2019)	mg/l	112
8	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2019)	mg/l	386
9	Fluoride as F	IS 3025 (Part 60)-2008 (R.2019)	mg/l	0.31
10	Iron as Fe	IS 3025 (Part 53)-2003 (R.2019)	mg/l	0.12
11	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2019)	mg/l	37
12	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1) 2022	mg/l	BDL(DL:0.001)
13	Sulphate as SO ₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	132
14	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2019)	mg/l	450
15	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2019)	mg/l	432
16	Cyanide as CN	IS 3025 (Part 27/Sec-1) - 2021	mg/l	BDL(DL:0.01)
17	Total Suspended Solids	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	< 2
18	Residual Free Chlorine	IS 3025 (Part 26)-2021	mg/l	BDL(DL:0.1)
19	Chromium as Cr	IS 3025 (Part 52)-2003 (RA.2019)	mg/l	BDL(DL:0.01)
20	Mercury as Hg	IS 3025 (Part 48)-1994 (RA.2019)	mg/l	BDL(DL:0.001)
21	Arsenic as As	IS 3025 (Part 37)-1988(RA.2019)	mg/l	BDL(DL:0.001)

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(CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-24956/2024-25 & 06.07.2024
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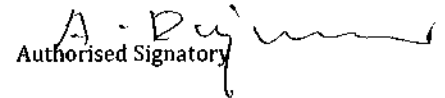
S. NO	PARAMETERS	METHOD	UNITS	RESULTS
22	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	< 2
23	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	< 4
24	Nitrate Nitrogen as N	IS 3025 (Part 34)-1988 (R.2019)	mg/l	3.7
25	Potassium as K	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	16
26	Dissolved Oxygen	IS 3025 (Part 38) - 1989 (RA.2019)	mg/l	7.2
27	Percent Sodium	CTL/SOP/WATER/60-2022	%	52.69
28	Sodium absorption ratio	IS 11624 - 2019	-	4.85
29	Oil & Grease	IS 3025 (Part 39) - 2021	mg/l	< 2

BDL - Below Detection Limit; DL - Detection limit;

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

Verified by 


Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 2 of 2

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A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-24957/2024-25 & 06.07.2024
Sample Number N-24957/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ground Water
Sample Description Ground Water
Sampling Location Arumugam Gounder, Poduvarpatti
Sample Drawn on 26.06.2024
Sample Received on 27.06.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.8°C and Humidity- 57.3%
Equipment used for Sampling NA
Analysis Started on 27.06.2024
Analysis Completed on 05.07.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS : 3025 (Part 4)- 2021	HU	2
2	Odour	IS : 3025 (Part 5) - 2018	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	7.7
4	Taste	IS 3025 (Part 8)-1984 (R.2017)	-	Agreeable
5	Turbidity	IS 3025 (Part 10)-1984 (R.2017)	NTU	< 1
6	Total Dissolved Solids	IS 3025 (Part 16)-1984 (RA.2017)	mg/l	1120
7	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2019)	mg/l	107
8	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2019)	mg/l	320
9	Fluoride as F ⁻	IS 3025 (Part 60)-2008 (R.2019)	mg/l	0.30
10	Iron as Fe	IS 3025 (Part 53)-2003 (R.2019)	mg/l	0.05
11	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2019)	mg/l	36
12	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1) 2022	mg/l	BDL(DL:0.001)
13	Sulphate as SO ₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	114
14	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2019)	mg/l	412
15	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2019)	mg/l	415
16	Cyanide as CN	IS 3025 (Part 27/Sec-1) - 2021	mg/l	BDL(DL:0.01)
17	Total Suspended Solids	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	< 2
18	Residual Free Chlorine	IS 3025 (Part 26)-2021	mg/l	BDL(DL:0.1)
19	Chromium as Cr	IS 3025 (Part 52)-2003 (RA.2019)	mg/l	BDL(DL:0.01)
20	Mercury as Hg	IS 3025 (Part 48)-1994 (RA.2019)	mg/l	BDL(DL:0.001)
21	Arsenic as As	IS 3025 (Part 37)-1988(RA.2019)	mg/l	BDL(DL:0.001)

For Chennai Testing Laboratory Pvt Ltd

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A. RAJKUMAR
 Head Water & Soil Division
 (CHEMICAL)

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TEST REPORT

Test Report No & Date	CTL/CH/N-24957/2024-25 & 06.07.2024
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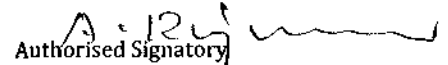
S.NO	PARAMETERS	METHOD	UNITS	RESULTS
22	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	< 2
23	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	< 4
24	Nitrate Nitrogen as N	IS 3025 (Part 34)-1988 (R.2019)	mg/l	3.9
25	Potassium as K	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	12
26	Dissolved Oxygen	IS 3025 (Part 38) - 1989 (RA.2019)	mg/l	7.1
27	Percent Sodium	CTL/SOP/WATER/60-2022	%	49.19
28	Sodium absorption ratio	IS 11624 - 2019	-	4.09
29	Oil & Grease	IS 3025 (Part 39) - 2021	mg/l	< 2

BDL - Below Detection Limit; DL - Detection limit;

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

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A. RAJKUMAR Page 2 of 2
Head - Water & Soil Division
(CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date **CTL/CH/N-24958/2024-25 & 06.07.2024**
 Sample Number **N-24958/24-25**
 Name of the Customer **M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,**
 Address **Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.**

Sample Drawn by **Laboratory**
 Sample Name **Ground Water**
 Sample Description **Ground Water**
 Sampling Location **Navaladiyar Shed**
 Sample Drawn on **26.06.2024**
 Sample Received on **27.06.2024**
 Sampling Plan & Procedure **Grab Sample & CTL/QSP/09**
 Sample Quantity **2 Litres**
 Sample Condition **Good & Received in Plastic Container**
 Environmental Conditions **Temperature- 33.8°C and Humidity- 57.3%**
 Equipment used for Sampling **NA**
 Analysis Started on **27.06.2024**
 Analysis Completed on **05.07.2024**

Test Results:

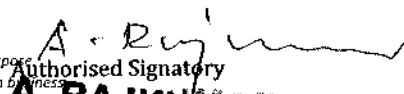
The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS : 3025 (Part 4)- 2021	HU	2
2	Odour	IS : 3025 (Part 5) - 2018	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	7.7
4	Taste	IS 3025 (Part 8)-1984 (R.2017)	-	Agreeable
5	Turbidity	IS 3025 (Part 10)-1984 (R.2017)	NTU	1
6	Total Dissolved Solids	IS 3025 (Part 16)-1984 (RA.2017)	mg/l	850
7	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2019)	mg/l	74
8	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2019)	mg/l	220
9	Fluoride as F ⁻	IS 3025 (Part 60)-2008 (R.2019)	mg/l	0.22
10	Iron as Fe	IS 3025 (Part 53)-2003 (R.2019)	mg/l	0.13
11	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2019)	mg/l	25
12	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1) 2022	mg/l	BDL(DL:0.001)
13	Sulphate as SO ₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	81
14	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2019)	mg/l	310
15	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2019)	mg/l	288
16	Cyanide as CN	IS 3025 (Part 27/Sec-1) - 2021	mg/l	BDL(DL:0.01)
17	Total Suspended Solids	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	2
18	Residual Free Chlorine	IS 3025 (Part 26)-2021	mg/l	BDL(DL:0.1)
19	Chromium as Cr	IS 3025 (Part 52)-2003 (RA.2019)	mg/l	BDL(DL:0.01)
20	Mercury as Hg	IS 3025 (Part 48)-1994 (RA.2019)	mg/l	BDL(DL:0.001)
21	Arsenic as As	IS 3025 (Part 37)-1988(RA.2019)	mg/l	BDL(DL:0.001)

For Chennai Testing Laboratory Pvt Ltd

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 Water & Soil Division
 (CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-24958/2024-25 & 06.07.2024
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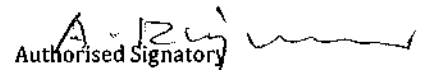
S. NO	PARAMETERS	METHOD	UNITS	RESULTS
22	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	< 2
23	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	< 4
24	Nitrate Nitrogen as N	IS 3025 (Part 34)-1988 (R.2019)	mg/l	3.7
25	Potassium as K	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	11
26	Dissolved Oxygen	IS 3025 (Part 38) - 1989 (RA.2019)	mg/l	6.9
27	Percent Sodium	CTL/SOP/WATER/60-2022	%	48.72
28	Sodium absorption ratio	IS 11624 - 2019	-	3.38
29	Oil & Grease	IS 3025 (Part 39) - 2021	mg/l	< 2

BDL - Below Detection Limit; DL - Detection limit;

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

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A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 2 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date: CTL/CH/N-24952/2024-25 & 06.07.2024
 Sample Number: N-24952/24-25
 Name of the Customer: M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
 Address: Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by: Laboratory
 Sample Name: Ground Water
 Sample Description: Ground Water
 Sampling Location: Kandhasamy Gounder, Pongudipatti
 Sample Drawn on: 26.06.2024
 Sample Received on: 27.06.2024
 Sampling Plan & Procedure: Grab Sample & CTL/QSP/09
 Sample Quantity: 2 Litres
 Sample Condition: Good & Received in Plastic Container
 Environmental Conditions: Temperature- 33.8°C and Humidity- 57.3%
 Equipment used for Sampling: NA
 Analysis Started on: 27.06.2024
 Analysis Completed on: 05.07.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS : 3025 (Part 4)- 2021	HU	2
2	Odour	IS : 3025 (Part 5) - 2018	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	7.6
4	Taste	IS 3025 (Part 8)-1984 (R.2017)	-	Agreeable
5	Turbidity	IS 3025 (Part 10)-1984 (R.2017)	NTU	< 1
6	Total Dissolved Solids	IS 3025 (Part 16)-1984 (RA.2017)	mg/l	762
7	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2019)	mg/l	70
8	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2019)	mg/l	210
9	Fluoride as F	IS 3025 (Part 60)-2008 (R.2019)	mg/l	0.29
10	Iron as Fe	IS 3025 (Part 53)-2003 (R.2019)	mg/l	0.03
11	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2019)	mg/l	23
12	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1) 2022	mg/l	BDL(DL:0.001)
13	Sulphate as SO ₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	81
14	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2019)	mg/l	260
15	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2019)	mg/l	269
16	Cyanide as CN	IS 3025 (Part 27/Sec-1) - 2021	mg/l	BDL(DL:0.01)
17	Total Suspended Solids	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	< 2
18	Residual Free Chlorine	IS 3025 (Part 26)-2021	mg/l	BDL(DL:0.1)
19	Chromium as Cr	IS 3025 (Part 52)-2003 (RA.2019)	mg/l	BDL(DL:0.01)
20	Mercury as Hg	IS 3025 (Part 48)-1994 (RA.2019)	mg/l	BDL(DL:0.001)
21	Arsenic as As	IS 3025 (Part 37)-1988(RA.2019)	mg/l	BDL(DL:0.001)

For Chennai Testing Laboratory Pvt Ltd



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A. Rajkumar
 A. RAJKUMAR
 Head of Water & Soil Division
 (CHEMICALS)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-24952/2024-25 & 06.07.2024
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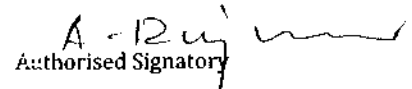
S. NO	PARAMETERS	METHOD	UNITS	RESULTS
22	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	< 2
23	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	< 4
24	Nitrate Nitrogen as N	IS 3025 (Part 34)-1988 (R.2019)	mg/l	4.7
25	Potassium as K	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	17
26	Dissolved Oxygen	IS 3025 (Part 38) - 1989 (RA.2019)	mg/l	7.1
27	Percent Sodium	CTL/SOP/WATER/60-2022	%	48.45
28	Sodium absorption ratio	IS 11624 - 2019	-	3.33
29	Oil & Grease	IS 3025 (Part 39) - 2021	mg/l	< 2

BDL - Below Detection Limit; DL - Detection limit;

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

Verified by 


A - Rajkumar
Authorised Signatory

A. RAJKUMAR Page 2 of 2
Head - Water & Soil Division
(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date: CTL/CH/N-24948/2024-25 & 06.07.2024
 Sample Number: N-24948/24-25
 Name of the Customer: M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
 Address: Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.

Sample Drawn by: Laboratory
 Sample Name: Ground Water
 Sample Description: Ground Water
 Sampling Location: Rajaram Othupatti Village
 Sample Drawn on: 26.06.2024
 Sample Received on: 27.06.2024
 Sampling Plan & Procedure: Grab Sample & CTL/QSP/09
 Sample Quantity: 2 Litres
 Sample Condition: Good & Received in Plastic Container
 Environmental Conditions: Temperature- 33.8°C and Humidity- 57.3%
 Equipment used for Sampling: NA
 Analysis Started on: 27.06.2024
 Analysis Completed on: 05.07.2024

Test Results:

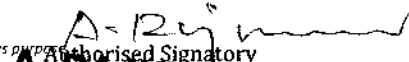
The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS : 3025 (Part 4)- 2021	HU	2
2	Odour	IS : 3025 (Part 5) - 2018	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	7.5
4	Taste	IS 3025 (Part 8)-1984 (R.2017)	-	Agreeable
5	Turbidity	IS 3025 (Part 10)-1984 (R.2017)	NTU	< 1
6	Total Dissolved Solids	IS 3025 (Part 16)-1984 (RA.2017)	mg/l	1350
7	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2019)	mg/l	116
8	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2019)	mg/l	386
9	Fluoride as F	IS 3025 (Part 60)-2008 (R.2019)	mg/l	0.27
10	Iron as Fe	IS 3025 (Part 53)-2003 (R.2019)	mg/l	0.12
11	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2019)	mg/l	39
12	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1) 2022	mg/l	BDL(DL:0.001)
13	Sulphate as SO ₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	154
14	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2019)	mg/l	462
15	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2019)	mg/l	450
16	Cyanide as CN	IS 3025 (Part 27/Sec-1) - 2021	mg/l	BDL(DL:0.01)
17	Total Suspended Solids	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	< 2
18	Residual Free Chlorine	IS 3025 (Part 26)-2021	mg/l	BDL(DL:0.1)
19	Chromium as Cr	IS 3025 (Part 52)-2003 (RA.2019)	mg/l	BDL(DL:0.01)
20	Mercury as Hg	IS 3025 (Part 48)-1994 (RA.2019)	mg/l	BDL(DL:0.001)
21	Arsenic as As	IS 3025 (Part 37)-1988(RA.2019)	mg/l	BDL(DL:0.001)

For Chennai Testing Laboratory Pvt Ltd

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Authorised Signatory

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 Head, Water & Soil Division
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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-24948/2024-25 & 06.07.2024
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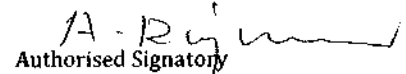
S. NO	PARAMETERS	METHOD	UNITS	RESULTS
22	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	< 2
23	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	< 4
24	Nitrate Nitrogen as N	IS 3025 (Part 34)-1988 (R.2019)	mg/l	4.3
25	Potassium as K	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	17
26	Dissolved Oxygen	IS 3025 (Part 38) - 1989 (RA.2019)	mg/l	7.2
27	Percent Sodium	CTL/SOP/WATER/60-2022	%	53.63
28	Sodium absorption ratio	IS 11624 - 2019	-	4.74
29	Oil & Grease	IS 3025 (Part 39) - 2021	mg/l	< 2

BDL - Below Detection Limit; DL - Detection limit;

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

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A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 2 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date **CTL/CH/N-24959/2024-25 & 06.07.2024**
 Sample Number **N-24959/24-25**
 Name of the Customer **M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,**
 Address **Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.**

Sample Drawn by **Laboratory**
 Sample Name **Ground Water**
 Sample Description **Ground Water**
 Sampling Location **Shanmugam , Padhiripatti WTP Within Site**
 Sample Drawn on **26.06.2024**
 Sample Received on **27.06.2024**
 Sampling Plan & Procedure **Grab Sample & CTL/QSP/09**
 Sample Quantity **2 Litres**
 Sample Condition **Good & Received in Plastic Container**
 Environmental Conditions **Temperature- 33.8°C and Humidity- 57.3%**
 Equipment used for Sampling **NA**
 Analysis Started on **27.06.2024**
 Analysis Completed on **05.07.2024**

Test Results:

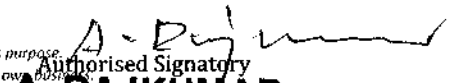
The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS : 3025 (Part 4)- 2021	HU	2
2	Odour	IS : 3025 (Part 5) - 2018	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	7.4
4	Taste	IS 3025 (Part 8)-1984 (R.2017)	-	Agreeable
5	Turbidity	IS 3025 (Part 10)-1984 (R.2017)	NTU	< 1
6	Total Dissolved Solids	IS 3025 (Part 16)-1984 (RA.2017)	mg/l	1560
7	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2019)	mg/l	137
8	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2019)	mg/l	440
9	Fluoride as F ⁻	IS 3025 (Part 60)-2008 (R.2019)	mg/l	0.34
10	Iron as Fe	IS 3025 (Part 53)-2003 (R.2019)	mg/l	0.04
11	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2019)	mg/l	46
12	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1) 2022	mg/l	BDL(DL:0.001)
13	Sulphate as SO ₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	186
14	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2019)	mg/l	530
15	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2019)	mg/l	531
16	Cyanide as CN	IS 3025 (Part 27/Sec-1) - 2021	mg/l	BDL(DL:0.01)
17	Total Suspended Solids	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	< 2
18	Residual Free Chlorine	IS 3025 (Part 26)-2021	mg/l	BDL(DL:0.1)
19	Chromium as Cr	IS 3025 (Part 52)-2003 (RA.2019)	mg/l	BDL(DL:0.01)
20	Mercury as Hg	IS 3025 (Part 48)-1994 (RA.2019)	mg/l	BDL(DL:0.001)
21	Arsenic as As	IS 3025 (Part 37)-1988(RA.2019)	mg/l	BDL(DL:0.001)

For Chennai Testing Laboratory Pvt Ltd

Verified by 

The Report shall not be used to malign, defame and for any malicious purpose.
 The Report is meant only for sole use of the addressee to promote his/her own business.


 Authorised Signatory

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai, 600 032, Tamil Nadu, - India
 Head - Water & Soil Division Page 1 of 2

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com | www.ctllabs.in

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-24959/2024-25 & 06.07.2024
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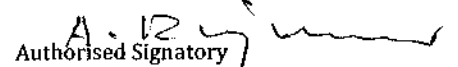
S. NO	PARAMETERS	METHOD	UNITS	RESULTS
22	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	< 2
23	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	< 4
24	Nitrate Nitrogen as N	IS 3025 (Part 34)-1988 (R.2019)	mg/l	5.7
25	Potassium as K	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	20
26	Dissolved Oxygen	IS 3025 (Part 38) - 1989 (RA.2019)	mg/l	7
27	Percent Sodium	CTL/SOP/WATER/60-2022	%	50.73
28	Sodium absorption ratio	IS 11624 - 2019	-	4.97
29	Oil & Grease	IS 3025 (Part 39) - 2021	mg/l	< 2

BDL - Below Detection Limit; DL - Detection limit;

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

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A. RAJKUMAR
 Head - Water & Soil Division
 (CHEMICAL) Page 2 of 2

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A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com www.ctllabs.in

TEST REPORT

Test Report No & Date	CTL/CH/N-29810/2024-25 & 04.10.2024
Sample Number	N-29810/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Ground Water
Sample Description	Ground Water
Sampling Location	Ramanaliker, Pongudipatti
Sample Drawn on	21.09.2024
Sample Received on	22.09.2024
Sampling Plan & Procedure	Grab Sample & CTL/QSP/09
Sample Quantity	2 Litres
Sample Condition	Good & Received in Plastic Container
Environmental Conditions	Temperature- 33.1°C and Humidity- 57.2%
Equipment used for Sampling	NA
Analysis Started on	23.09.2024
Analysis Completed on	04.10.2024

Test Results:

The above sample tested as received, and results are as follows:

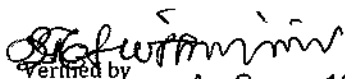
DISCIPLINE : CHEMICAL & BIOLOGICAL

GROUP : WATER

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS 3025 (Part 4)	HU	2
2	Odour	IS 3025 (Part 5)	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)	-	8.0
4	Taste	IS 3025 (Part 8)	-	Agreeable
5	Turbidity	IS 3025 (Part 10)	NTU	BLQ(LOQ:1.0)
6	Total Dissolved Solids	IS 3025 (Part 16)	mg/l	660
7	Calcium as Ca	IS 3025 (Part 40)	mg/l	82
8	Chloride as Cl ⁻	IS 3025 (Part 32)	mg/l	136
9	Fluoride as F ⁻	IS 3025 (Part 60)	mg/l	0.11
10	Iron as Fe	IS 3025 (Part 53)	mg/l	0.06
11	Magnesium as Mg	IS 3025 (Part 46)	mg/l	38
12	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1)	mg/l	BLQ(LOQ:0.001)
13	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1)	mg/l	57
14	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)	mg/l	301
15	Total Hardness as CaCO ₃	IS 3025 (Part 21)	mg/l	361
16	Cyanide as CN	IS 3025 (Part 27/Sec 1)	mg/l	BLQ(LOQ:0.001)
17	Total Suspended Solids	IS 3025 (Part 17)	mg/l	BLQ(LOQ:2.0)
18	Residual Free Chlorine	IS 3025 (Part 26)	mg/l	BLQ(LOQ:0.1)
19	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)	mg/l	BLQ(LOQ:2.0)
20	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)	mg/l	BLQ(LOQ:4.0)
21	Potassium as K	IS 3025 (Part 45)	mg/l	7
22	Dissolved Oxygen	IS 3025 (Part 38)	mg/l	7.2
23	Chromium as Cr	IS 3025 (Part 2)	mg/l	BLQ(LOQ:0.0025)
24	Mercury as Hg		mg/l	BLQ(LOQ:0.001)
25	Arsenic as As		mg/l	BLQ(LOQ:0.001)

For Chennai Testing Laboratory Pvt Ltd

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Verified by  A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 042, Tamil Nadu - India

Authorized Signatory
A. RAJKOMAR
Head - Water & Sewerage Division
(CHEMICAL)

Phone : +91-44-2250 1757 | E-mail : chennaiteesting@chennaiteestinglab.com

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29810/2024-25 & 04.10.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS
26	Nitrate Nitrogen as N	IS 3025 (Part 34/Sec 1)	mg/l	1.76
27	Percent Sodium	CTL/SOP/WATER/60	%	35.06
28	Sodium absorption ratio	IS 11624	-	2.1
29	Oil & Grease	IS 3025 (Part 39)	mg/l	BLQ(LOQ:2.0)

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification:

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

Verified by
verified by

A. Rajkumar
Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 2 of 2

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A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

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TEST REPORT

Test Report No & Date CTL/CH/N-29808/2024-25 & 04.10.2024
Sample Number N-29808/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ground Water
Sample Description Ground Water
Sampling Location Malayalaga Gounder, Malaimadaipatti, Periyapatti North Village
Sample Drawn on 21.09.2024
Sample Received on 22.09.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.1°C and Humidity- 57.2%
Equipment used for Sampling NA
Analysis Started on 23.09.2024
Analysis Completed on 04.10.2024

Test Results:

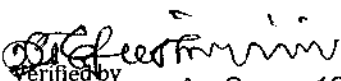
The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL & BIOLOGICAL

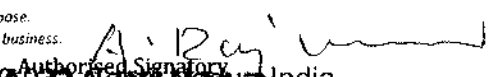
GROUP : WATER

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS 3025 (Part 4)	HU	2
2	Odour	IS 3025 (Part 5)	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)	-	7.6
4	Taste	IS 3025 (Part 8)	-	Agreeable
5	Turbidity	IS 3025 (Part 10)	NTU	BLQ(LOQ:1.0)
6	Total Dissolved Solids	IS 3025 (Part 16)	mg/l	2110
7	Calcium as Ca	IS 3025 (Part 40)	mg/l	261
8	Chloride as Cl ⁻	IS 3025 (Part 32)	mg/l	630
9	Fluoride as F ⁻	IS 3025 (Part 60)	mg/l	0.37
10	Iron as Fe	IS 3025 (Part 53)	mg/l	0.09
11	Magnesium as Mg	IS 3025 (Part 46)	mg/l	92
12	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1)	mg/l	BLQ(LOQ:0.001)
13	Sulfate as SO ₄	IS 3025 (Part 24/Sec 1)	mg/l	324
14	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)	mg/l	402
15	Total Hardness as CaCO ₃	IS 3025 (Part 21)	mg/l	1029
16	Cyanide as CN	IS 3025 (Part 27/Sec 1)	mg/l	BLQ(LOQ:0.001)
17	Total Suspended Solids	IS 3025 (Part 17)	mg/l	BLQ(LOQ:2.0)
18	Residual Free Chlorine	IS 3025 (Part 26)	mg/l	BLQ(LOQ:0.1)
19	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)	mg/l	BLQ(LOQ:2.0)
20	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)	mg/l	BLQ(LOQ:4.0)
21	Potassium as K	IS 3025 (Part 45)	mg/l	33
22	Dissolved Oxygen	IS 3025 (Part 38)	mg/l	6.9
23	Chromium as Cr	IS 3025 (Part 2)	mg/l	BLQ(LOQ:0.0025)
24	Mercury as Hg		mg/l	BLQ(LOQ:0.001)
25	Arsenic as As		mg/l	BLQ(LOQ:0.001)

For Chennai Testing Laboratory Pvt Ltd

Verified by 

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Authorized Signatory 

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032

A. RASIKUMAR

Head, Water & Soil Division
 (CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29808/2024-25 & 04.10.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS
26	Nitrate Nitrogen as N	IS 3025 (Part 34/Sec 1)	mg/l	4.3
27	Percent Sodium	CTL/SOP/WATER/60	%	45.66
28	Sodium absorption ratio	IS 11624	-	5.61
29	Oil & Grease	IS 3025 (Part 39)	mg/l	BLQ(LOQ:2.0)

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification:

*****END OF REPORT*****

For Chennai Testing Laboratory Pvt Ltd

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A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 2 of 2

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Phone : +91-44-2250 1757 | E-mail : chennaitesting@chennaitestinglab.com www.ctllabs.in

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-29809/2024-25 & 04.10.2024
Sample Number N-29809/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ground Water
Sample Description Ground Water
Sampling Location M.Kandhasamy, Pongudipatti
Sample Drawn on 21.09.2024
Sample Received on 22.09.2024
Sampling Plan & Procedure Crab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.1°C and Humidity- 57.2%
Equipment used for Sampling NA
Analysis Started on 23.09.2024
Analysis Completed on 04.10.2024

Test Results:

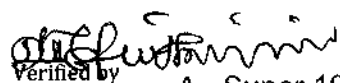
The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL & BIOLOGICAL

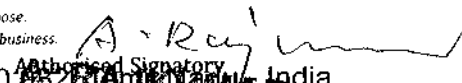
GROUP : WATER

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS 3025 (Part 4)	HU	2
2	Odour	IS 3025 (Part 5)	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)	-	7.6
4	Taste	IS 3025 (Part 8)	-	Agreeable
5	Turbidity	IS 3025 (Part 10)	NTU	BLQ(LOQ:1.0)
6	Total Dissolved Solids	IS 3025 (Part 16)	mg/l	1254
7	Calcium as Ca	IS 3025 (Part 40)	mg/l	96
8	Chloride as Cl ⁻	IS 3025 (Part 32)	mg/l	370
9	Fluoride as F ⁻	IS 3025 (Part 60)	mg/l	0.19
10	Iron as Fe	IS 3025 (Part 53)	mg/l	0.08
11	Magnesium as Mg	IS 3025 (Part 46)	mg/l	58
12	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1)	mg/l	BLQ(LOQ:0.001)
13	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1)	mg/l	69
14	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)	mg/l	494
15	Total Hardness as CaCO ₃	IS 3025 (Part 21)	mg/l	478
16	Cyanide as CN	IS 3025 (Part 27/Sec 1)	mg/l	BLQ(LOQ:0.001)
17	Total Suspended Solids	IS 3025 (Part 17)	mg/l	BLQ(LOQ:2.0)
18	Residual Free Chlorine	IS 3025 (Part 26)	mg/l	BLQ(LOQ:0.1)
19	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)	mg/l	BLQ(LOQ:2.0)
20	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)	mg/l	BLQ(LOQ:4.0)
21	Potassium as K	IS 3025 (Part 45)	mg/l	19
22	Dissolved Oxygen	IS 3025 (Part 38)	mg/l	7.1
23	Chromium as Cr	IS 3025 (Part 2)	mg/l	BLQ(LOQ:0.0025)
24	Mercury as Hg		mg/l	BLQ(LOQ:0.001)
25	Arsenic as As		mg/l	BLQ(LOQ:0.001)

For Chennai Testing Laboratory Pvt Ltd

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Authorized Signatory

 Head - Water & Soil Division
 (CHEMICAL)

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 062, India

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com | www.chennaiestinglab.com Page 1 of 2

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29809/2024-25 & 04.10.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS
26	Nitrate Nitrogen as N	IS 3025 (Part 34/Sec 1)	mg/l	3.6
27	Percent Sodium	CTL/SOP/WATER/60	%	50.91
28	Sodium absorption ratio	IS 11624	-	4.76
29	Oil & Grease	IS 3025 (Part 39)	mg/l	BLQ(LOQ:2.0)

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification:

*****END OF REPORT*****

For Chennai Testing Laboratory Pvt Ltd

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A. RAJKUMAR Page 2 of 2
Head - Water & Soil Division
(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date
Sample Number
Name of the Customer
Address

CTL/CH/N-29815/2024-25 & 04.10.2024
N-29815/24-25
M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ground Water
Sample Description Ground Water
Sampling Location Sreenivasan, Ponnampatti
Sample Drawn on 21.09.2024
Sample Received on 22.09.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.1°C and Humidity- 57.2%
Equipment used for Sampling NA
Analysis Started on 23.09.2024
Analysis Completed on 04.10.2024

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL & BIOLOGICAL

GROUP : WATER

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS 3025 (Part 4)	HU	2
2	Odour	IS 3025 (Part 5)	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)	-	7.4
4	Taste	IS 3025 (Part 8)	-	Agreeable
5	Turbidity	IS 3025 (Part 10)	NTU	BLQ(LOQ:1.0)
6	Total Dissolved Solids	IS 3025 (Part 16)	mg/l	1136
7	Calcium as Ca	IS 3025 (Part 40)	mg/l	125
8	Chloride as Cl ⁻	IS 3025 (Part 32)	mg/l	324
9	Fluoride as F ⁻	IS 3025 (Part 60)	mg/l	0.34
10	Iron as Fe	IS 3025 (Part 53)	mg/l	0.26
11	Magnesium as Mg	IS 3025 (Part 46)	mg/l	39
12	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1)	mg/l	BLQ(LOQ:0.001)
13	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1)	mg/l	90
14	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)	mg/l	363
15	Total Hardness as CaCO ₃	IS 3025 (Part 21)	mg/l	472
16	Cyanide as CN	IS 3025 (Part 27/Sec 1)	mg/l	BLQ(LOQ:0.001)
17	Total Suspended Solids	IS 3025 (Part 17)	mg/l	BLQ(LOQ:2.0)
18	Residual Free Chlorine	IS 3025 (Part 26)	mg/l	BLQ(LOQ:0.1)
19	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)	mg/l	BLQ(LOQ:2.0)
20	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)	mg/l	BLQ(LOQ:4.0)
21	Potassium as K	IS 3025 (Part 45)	mg/l	16
22	Dissolved Oxygen	IS 3025 (Part 38)	mg/l	7.3
23	Chromium as Cr	IS 3025 (Part 2)	mg/l	BLQ(LOQ:0.0025)
24	Mercury as Hg		mg/l	BLQ(LOQ:0.001)
25	Arsenic as As		mg/l	BLQ(LOQ:0.001)

For Chennai Testing Laboratory Pvt Ltd

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[Signature]
Verified by

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu, India

Head - Water & Soil Division
(CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29815/2024-25 & 04.10.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS
26	Nitrate Nitrogen as N	IS 3025 (Part 34/Sec 1)	mg/l	3.56
27	Percent Sodium	CTL/SOP/WATER/60	%	48.29
28	Sodium absorption ratio	IS 11624	-	4.23
29	Oil & Grease	IS 3025 (Part 39)	mg/l	BLQ(LOQ:2.0)

BLQ - Below Limit of Quantification; L.OQ - Limit of Quantification:

*****END OF REPORT*****

For Chennai Testing Laboratory Pvt Ltd

[Signature]
Verified by

[Signature]
Authorised Signatory
A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL) Page 2 of 2

*The Report shall not be used to malign, defame and for any malicious purpose.
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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-29816/2024-25 & 04.10.2024
Sample Number N-29816/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ground Water
Sample Description Ground Water
Sampling Location Arumugam Gounder, Poduvarpatti
Sample Drawn on 21.09.2024
Sample Received on 22.09.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.1°C and Humidity- 57.2%
Equipment used for Sampling NA
Analysis Started on 23.09.2024
Analysis Completed on 04.10.2024

Test Results:
 The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL & BIOLOGICAL
GROUP : WATER

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS 3025 (Part 4)	HU	2
2	Odour	IS 3025 (Part 5)	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)	-	8.0
4	Taste	IS 3025 (Part 8)	-	Agreeable
5	Turbidity	IS 3025 (Part 10)	NTU	BLQ(LOQ:1.0)
6	Total Dissolved Solids	IS 3025 (Part 16)	mg/l	322
7	Calcium as Ca	IS 3025 (Part 40)	mg/l	32
8	Chloride as Cl ⁻	IS 3025 (Part 32)	mg/l	74
9	Fluoride as F ⁻	IS 3025 (Part 60)	mg/l	0.1
10	Iron as Fe	IS 3025 (Part 53)	mg/l	0.04
11	Magnesium as Mg	IS 3025 (Part 46)	mg/l	19
12	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1)	mg/l	BLQ(LOQ:0.001)
13	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1)	mg/l	26
14	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)	mg/l	144
15	Total Hardness as CaCO ₃	IS 3025 (Part 21)	mg/l	158
16	Cyanide as CN	IS 3025 (Part 27/Sec 1)	mg/l	BLQ(LOQ:0.001)
17	Total Suspended Solids	IS 3025 (Part 17)	mg/l	BLQ(LOQ:2.0)
18	Residual Free Chlorine	IS 3025 (Part 26)	mg/l	BLQ(LOQ:0.1)
19	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)	mg/l	BLQ(LOQ:2.0)
20	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)	mg/l	BLQ(LOQ:4.0)
21	Potassium as K	IS 3025 (Part 45)	mg/l	4
22	Dissolved Oxygen	IS 3025 (Part 38)	mg/l	6.8
23	Chromium as Cr	IS 3025 (Part 2)	mg/l	BLQ(LOQ:0.0025)
24	Mercury as Hg		mg/l	BLQ(LOQ:0.001)
25	Arsenic as As		mg/l	BLQ(LOQ:0.001)

For Chennai Testing Laboratory Pvt Ltd

The Report shall not be used for any other purpose and for any malicious purpose.
 The Report is meant only for sole reference to promote his/her own business.



Verified by *[Signature]*

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 037, Tamil Nadu, India

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiesting.com | www.ctllabs.in

[Signature]
 Authorised Signatory
 Head - Water & Soil Division
 Page 1 of 2

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29816/2024-25 & 04.10.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS
26	Nitrate Nitrogen as N	IS 3025 (Part 34/Sec 1)	mg/l	0.86
27	Percent Sodium	CTL/SOP/WATER/60	%	40.90
28	Sodium absorption ratio	IS 11624	-	1.79
29	Oil & Grease	IS 3025 (Part 39)	mg/l	BLQ(LOQ:2.0)

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification:

*****END OF REPORT*****

For Chennai Testing Laboratory Pvt Ltd

[Handwritten Signature]
Verified by

[Handwritten Signature]
Authorised Signatory

A. RAJKUMAR Page 2 of 2
Head - Water & Soil Division
(CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-29817/2024-25 & 04.10.2024
Sample Number N-29817/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ground Water
Sample Description Ground Water
Sampling Location Navaladiyar Shed
Sample Drawn on 21.09.2024
Sample Received on 22.09.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.1°C and Humidity- 57.2%
Equipment used for Sampling NA
Analysis Started on 23.09.2024
Analysis Completed on 04.10.2024

Test Results:

The above sample tested as received, and results are as follows:

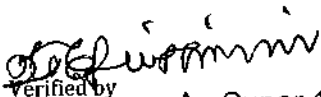
DISCIPLINE : CHEMICAL & BIOLOGICAL

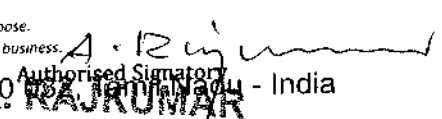
GROUP : WATER

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS 3025 (Part 4)	HU	2
2	Odour	IS 3025 (Part 5)	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)	-	7.6
4	Taste	IS 3025 (Part 8)	-	Agreeable
5	Turbidity	IS 3025 (Part 10)	NTU	BLQ(LOQ:1.0)
6	Total Dissolved Solids	IS 3025 (Part 16)	mg/l	750
7	Calcium as Ca	IS 3025 (Part 40)	mg/l	111
8	Chloride as Cl ⁻	IS 3025 (Part 32)	mg/l	208
9	Fluoride as F ⁻	IS 3025 (Part 60)	mg/l	0.24
10	Iron as Fe	IS 3025 (Part 53)	mg/l	0.12
11	Magnesium as Mg	IS 3025 (Part 46)	mg/l	34
12	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1)	mg/l	BLQ(LOQ:0.001)
13	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1)	mg/l	59
14	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)	mg/l	222
15	Total Hardness as CaCO ₃	IS 3025 (Part 21)	mg/l	417
16	Cyanide as CN	IS 3025 (Part 27/Sec 1)	mg/l	BLQ(LOQ:0.001)
17	Total Suspended Solids	IS 3025 (Part 17)	mg/l	BLQ(LOQ:2.0)
18	Residual Free Chlorine	IS 3025 (Part 26)	mg/l	BLQ(LOQ:0.1)
19	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)	mg/l	BLQ(LOQ:2.0)
20	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)	mg/l	BLQ(LOQ:4.0)
21	Potassium as K	IS 3025 (Part 45)	mg/l	11
22	Dissolved Oxygen	IS 3025 (Part 38)	mg/l	7.3
23	Chromium as Cr		mg/l	BLQ(LOQ:0.0025)
24	Mercury as Hg	IS 3025 (Part 2)	mg/l	BLQ(LOQ:0.001)
25	Arsenic as As		mg/l	BLQ(LOQ:0.001)

For Chennai Testing Laboratory Pvt Ltd

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Verified by 

Authorized Signatory 
 A. RAJANARAJAN

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 025, Tamil Nadu - India

Head - Water & Soil Division
 Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com | www.chennaiestinglab.com
 (CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29817/2024-25 & 04.10.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS
26	Nitrate Nitrogen as N	IS 3025 (Part 34/Sec 1)	mg/l	1.98
27	Percent Sodium	CTL/SOP/WATER/60	%	41.35
28	Sodium absorption ratio	IS 11624	-	2.97
29	Oil & Grease	IS 3025 (Part 39)	mg/l	BLQ(LOQ:2.0)

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification:

*****END OF REPORT*****

For Chennai Testing Laboratory Pvt Ltd

[Handwritten Signature]
Verified by

[Handwritten Signature]
A. R. RAO
Authorised Signatory

A. RAO
Head - Water & Soil Division
(CHEMICAL)

Page 2 of 2

TEST REPORT

Test Report No & Date: CTL/CH/N-29811/2024-25 & 04.10.2024
 Sample Number: N-29811/24-25
 Name of the Customer: M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
 Address: Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.

Sample Drawn by: Laboratory
 Sample Name: Ground Water
 Sample Description: Ground Water
 Sampling Location: Kandhasamy Gounder, Pongudipatti
 Sample Drawn on: 21.09.2024
 Sample Received on: 22.09.2024
 Sampling Plan & Procedure: Grab Sample & CTL/QSP/09
 Sample Quantity: 2 Litres
 Sample Condition: Good & Received in Plastic Container
 Environmental Conditions: Temperature- 33.1°C and Humidity- 57.2%
 Equipment used for Sampling: NA
 Analysis Started on: 23.09.2024
 Analysis Completed on: 04.10.2024

Test Results:

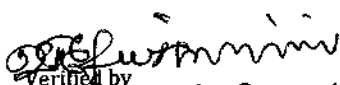
The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL & BIOLOGICAL

GROUP : WATER

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS 3025 (Part 4)	HU	2
2	Odour	IS 3025 (Part 5)	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)	-	7.5
4	Taste	IS 3025 (Part 8)	-	Agreeable
5	Turbidity	IS 3025 (Part 10)	NTU	1
6	Total Dissolved Solids	IS 3025 (Part 16)	mg/l	810
7	Calcium as Ca	IS 3025 (Part 40)	mg/l	122
8	Chloride as Cl ⁻	IS 3025 (Part 32)	mg/l	166
9	Fluoride as F	IS 3025 (Part 60)	mg/l	0.11
10	Iron as Fe	IS 3025 (Part 53)	mg/l	0.08
11	Magnesium as Mg	IS 3025 (Part 46)	mg/l	37
12	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1)	mg/l	BLQ(LOQ:0.001)
13	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1)	mg/l	71
14	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)	mg/l	313
15	Total Hardness as CaCO ₃	IS 3025 (Part 21)	mg/l	457
16	Cyanide as CN	IS 3025 (Part 27/Sec 1)	mg/l	BLQ(LOQ:0.001)
17	Total Suspended Solids	IS 3025 (Part 17)	mg/l	2
18	Residual Free Chlorine	IS 3025 (Part 26)	mg/l	BLQ(LOQ:0.1)
19	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)	mg/l	BLQ(LOQ:2.0)
20	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)	mg/l	BLQ(LOQ:4.0)
21	Potassium as K	IS 3025 (Part 45)	mg/l	9
22	Dissolved Oxygen	IS 3025 (Part 38)	mg/l	6.9
23	Chromium as Cr	IS 3025 (Part 2)	mg/l	BLQ(LOQ:0.0025)
24	Mercury as Hg		mg/l	BLQ(LOQ:0.001)
25	Arsenic as As		mg/l	BLQ(LOQ:0.001)

For Chennai Testing Laboratory Pvt Ltd

Verified by 

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A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

Head - Water & Soil Division

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29811/2024-25 & 04.10.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS
26	Nitrate Nitrogen as N	IS 3025 (Part 34/Sec 1)	mg/l	1.9
27	Percent Sodium	CTL/SOP/WATER/60	%	34.18
28	Sodium absorption ratio	IS 11624	-	2.27
29	Oil & Grease	IS 3025 (Part 39)	mg/l	BLQ(LOQ:2.0)

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification:

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

[Handwritten Signature]
Verified by

[Handwritten Signature]
Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 2 of 2

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TEST REPORT

Test Report No & Date	CTL/CH/N-29807/2024-25 & 04.10.2024
Sample Number	N-29807/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Ground Water
Sample Description	Ground Water
Sampling Location	Rajaram Othupatti Village
Sample Drawn on	21.09.2024
Sample Received on	22.09.2024
Sampling Plan & Procedure	Grab Sample & CTL/QSP/09
Sample Quantity	2 Litres
Sample Condition	Good & Received in Plastic Container
Environmental Conditions	Temperature- 33.1°C and Humidity- 57.7%
Equipment used for Sampling	NA
Analysis Started on	23.09.2024
Analysis Completed on	04.10.2024

Test Results:

The above sample tested as received, and results are as follows:

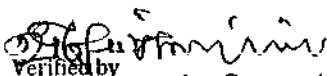
DISCIPLINE : CHEMICAL & BIOLOGICAL

GROUP : WATER

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS 3025 (Part 4)	HU	2
2	Odour	IS 3025 (Part 5)	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)	-	7.8
4	Taste	IS 3025 (Part 8)	-	Agreeable
5	Turbidity	IS 3025 (Part 10)	NTU	1
6	Total Dissolved Solids	IS 3025 (Part 16)	mg/l	870
7	Calcium as Ca	IS 3025 (Part 40)	mg/l	83
8	Chloride as Cl	IS 3025 (Part 32)	mg/l	194
9	Fluoride as F	IS 3025 (Part 60)	mg/l	0.12
10	Iron as Fe	IS 3025 (Part 53)	mg/l	0.25
11	Magnesium as Mg	IS 3025 (Part 46)	mg/l	53
12	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1)	mg/l	BLQ(LOQ:0.001)
13	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1)	mg/l	97
14	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)	mg/l	400
15	Total Hardness as CaCO ₃	IS 3025 (Part 21)	mg/l	425
16	Cyanide as CN	IS 3025 (Part 27/Sec 1)	mg/l	BLQ(LOQ:0.001)
17	Total Suspended Solids	IS 3025 (Part 17)	mg/l	2
18	Residual Free Chlorine	IS 3025 (Part 26)	mg/l	BLQ(LOQ:0.1)
19	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)	mg/l	BLQ(LOQ:2.0)
20	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)	mg/l	BLQ(LOQ:4.0)
21	Potassium as K	IS 3025 (Part 45)	mg/l	9
22	Dissolved Oxygen	IS 3025 (Part 38)	mg/l	7.0
23	Chromium as Cr	IS 3025 (Part 2)	mg/l	BLQ(LOQ:0.0025)
24	Mercury as Hg		mg/l	BLQ(LOQ:0.001)
25	Arsenic as As		mg/l	BLQ(LOQ:0.001)

For Chennai Testing Laboratory Pvt Ltd

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Verified by 

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 096, India

Head - Water & Soil Division
(CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29807/2024-25 & 04.10.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS
26	Nitrate Nitrogen as N	IS 3025 (Part 34/Sec 1)	mg/l	2.2
27	Percent Sodium	CTL/SOP/WATER/60	%	36.57
28	Sodium absorption ratio	IS 11624	-	2.44
29	Oil & Grease	IS 3025 (Part 39)	mg/l	BLQ(LOQ:2.0)

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification:

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

[Signature]
verified by

[Signature]
Authorised Signatory
A. RAJKUMAR
Head - Water & Soil Division Page 2 of 2
(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29818/2024-25 & 04.10.2024
Sample Number	N-29818/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Ground Water
Sample Description	Ground Water
Sampling Location	Shanmugam , Padhiripatti WTP Within Site
Sample Drawn on	21.09.2024
Sample Received on	22.09.2024
Sampling Plan & Procedure	Grab Sample & CTL/QSP/09
Sample Quantity	2 Litres
Sample Condition	Good & Received in Plastic Container
Environmental Conditions	Temperature- 33.1°C and Humidity- 57.2%
Equipment used for Sampling	NA
Analysis Started on	23.09.2024
Analysis Completed on	04.10.2024

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL & BIOLOGICAL

GROUP : WATER

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS 3025 (Part 4)	HU	2
2	Odour	IS 3025 (Part 5)	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)	-	7.6
4	Taste	IS 3025 (Part 8)	-	Agreeable
5	Turbidity	IS 3025 (Part 10)	NTU	4
6	Total Dissolved Solids	IS 3025 (Part 16)	mg/l	1436
7	Calcium as Ca	IS 3025 (Part 40)	mg/l	148
8	Chloride as Cl ⁻	IS 3025 (Part 32)	mg/l	462
9	Fluoride as F ⁻	IS 3025 (Part 60)	mg/l	0.37
10	Iron as Fe	IS 3025 (Part 53)	mg/l	0.26
11	Magnesium as Mg	IS 3025 (Part 46)	mg/l	39
12	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1)	mg/l	BLQ(LOQ:0.001)
13	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1)	mg/l	152
14	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)	mg/l	438
15	Total Hardness as CaCO ₃	IS 3025 (Part 21)	mg/l	530
16	Cyanide as CN	IS 3025 (Part 27/Sec 1)	mg/l	BLQ(LOQ:0.001)
17	Total Suspended Solids	IS 3025 (Part 17)	mg/l	BLQ(LOQ:2.0)
18	Residual Free Chlorine	IS 3025 (Part 26)	mg/l	BLQ(LOQ:0.1)
19	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)	mg/l	BLQ(LOQ:2.0)
20	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)	mg/l	BLQ(LOQ:4.0)
21	Potassium as K	IS 3025 (Part 45)	mg/l	30
22	Dissolved Oxygen	IS 3025 (Part 38)	mg/l	6.7
23	Chromium as Cr	IS 3025 (Part 2)	mg/l	BLQ(LOQ:0.0025)
24	Mercury as Hg		mg/l	BLQ(LOQ:0.001)
25	Arsenic as As		mg/l	BLQ(LOQ:0.001)

For Chennai Testing Laboratory Pvt Ltd

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Verified by *[Signature]*

[Signature]
Head - Water & Soil Division
www.ctllab3.in

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu, India

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiesting.com

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29818/2024-25 & 04.10.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS
26	Nitrate Nitrogen as N	IS 3025 (Part 34/Sec 1)	mg/l	3.79
27	Percent Sodium	CTL/SOP/WATER/60	%	52.43
28	Sodium absorption ratio	IS 11624	-	6.11
29	Oil & Grease	IS 3025 (Part 39)	mg/l	BLQ(LOQ:2.0)

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification:

END OF REPORT

[Handwritten Signature]
Verified by

For Chennai Testing Laboratory Pvt Ltd

[Handwritten Signature]
A. RAJIVAN
Head - Water & Soil
(CHEMICAL)

Page 2 of 2

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CIN : U93000TN2000PTC043869

TC - 14314

TEST REPORT

Test Report No & Date CTL/CH/N-29814/2024-25 & 04.10.2024
Sample Number N-29814/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ground Water
Sample Description Ground Water
Sampling Location Varsha Nagar, Porunthalur Village
Sample Drawn on 21.09.2024
Sample Received on 22.09.2024
Sampling Method & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.1°C and Humidity- 57.2%
Equipment used for Sampling NA
Analysis Started on 23.09.2024
Analysis Completed on 04.10.2024

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL & BIOLOGICAL

GROUP : WATER

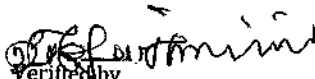
S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS 3025 (Part 4)	HU	2
2	Odour	IS 3025 (Part 5)	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)	-	7.6
4	Taste	IS 3025 (Part 8)	-	Agreeable
5	Turbidity	IS 3025 (Part 10)	NTU	BLQ(LOQ:1.0)
6	Total Dissolved Solids	IS 3025 (Part 16)	mg/l	1070
7	Calcium as Ca	IS 3025 (Part 40)	mg/l	104
8	Chloride as Cl ⁻	IS 3025 (Part 32)	mg/l	342
9	Fluoride as F	IS 3025 (Part 60)	mg/l	0.24
10	Iron as Fe	IS 3025 (Part 53)	mg/l	0.18
11	Magnesium as Mg	IS 3025 (Part 46)	mg/l	36
12	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1)	mg/l	BLQ(LOQ:0.001)
13	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1)	mg/l	82
14	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)	mg/l	268
15	Total Hardness as CaCO ₃	IS 3025 (Part 21)	mg/l	408
16	Cyanide as CN	IS 3025 (Part 27/Sec 1)	mg/l	BLQ(LOQ:0.001)
17	Total Suspended Solids	IS 3025 (Part 17)	mg/l	BLQ(LOQ:2.0)
18	Residual Free Chlorine	IS 3025 (Part 26)	mg/l	BLQ(LOQ:0.1)
19	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)	mg/l	BLQ(LOQ:2.0)
20	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)	mg/l	BLQ(LOQ:4.0)
21	Potassium as K	IS 3025 (Part 45)	mg/l	17
22	Dissolved Oxygen	IS 3025 (Part 38)	mg/l	7.1
23	Chromium as Cr	IS 3025 (Part 2)	mg/l	BLQ(LOQ:0.0025)
24	Mercury as Hg		mg/l	BLQ(LOQ:0.001)
25	Arsenic as As		mg/l	BLQ(LOQ:0.001)

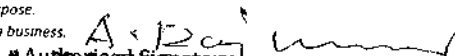
For Chennai Testing Laboratory Pvt Ltd

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A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu, India

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Verified by 


 Head - Water & Soil Division
 Chennai Testing Laboratory

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29814/2024-25 & 04.10.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
26	Nitrate Nitrogen as N	IS 3025 (Part 34/Sec 1)	mg/l	2.89
27	Percent Sodium	CTL/SOP/WATER/60	%	54.19
28	Sodium absorption ratio	IS 11624	-	5.03
29	Oil & Grease	IS 3025 (Part 39)	mg/l	BLQ(LOQ:2.0)

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification:

END OF REPORT

S. S. Srinivasan
Verified by

For Chennai Testing Laboratory Pvt Ltd

A. Rajkumar
Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 2 of 2

*The Report shall not be used to malign, defame and for any malicious purpose.
The Report is meant only for sole use of the addressee to promote his/her own business.*

CIN : U93000TN2000PTC043869

TC - 14314

TEST REPORT

Test Report No & Date CTL/CH/N-29813/2024-25 & 04.10.2024
Sample Number N-29813/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ground Water
Sample Description Ground Water
Sampling Location Near West Gate Within Site, Poduvarpatti
Sample Drawn on 21.09.2024
Sample Received on 22.09.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.1°C and Humidity- 57.2%
Equipment used for Sampling NA
Analysis Started on 23.09.2024
Analysis Completed on 04.10.2024

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL & BIOLOGICAL

GROUP : WATER

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS 3025 (Part 4)	HU	2
2	Odour	IS 3025 (Part 5)	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)	-	7.7
4	Taste	IS 3025 (Part 8)	-	Agreeable
5	Turbidity	IS 3025 (Part 10)	NTU	BLQ(LOQ:1.0)
6	Total Dissolved Solids	IS 3025 (Part 16)	mg/l	1410
7	Calcium as Ca	IS 3025 (Part 40)	mg/l	184
8	Chloride as Cl	IS 3025 (Part 32)	mg/l	410
9	Fluoride as F	IS 3025 (Part 60)	mg/l	0.31
10	Iron as Fe	IS 3025 (Part 53)	mg/l	0.11
11	Magnesium as Mg	IS 3025 (Part 46)	mg/l	56
12	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1)	mg/l	BLQ(LOQ:0.001)
13	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1)	mg/l	104
14	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)	mg/l	381
15	Total Hardness as CaCO ₃	IS 3025 (Part 21)	mg/l	689
16	Cyanide as CN	IS 3025 (Part 27/Sec 1)	mg/l	BLQ(LOQ:0.001)
17	Total Suspended Solids	IS 3025 (Part 17)	mg/l	BLQ(LOQ:2.0)
18	Residual Free Chlorine	IS 3025 (Part 26)	mg/l	BLQ(LOQ:0.1)
19	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)	mg/l	BLQ(LOQ:2.0)
20	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)	mg/l	BLQ(LOQ:4.0)
21	Potassium as K	IS 3025 (Part 45)	mg/l	18
22	Dissolved Oxygen	IS 3025 (Part 38)	mg/l	6.8
23	Chromium as Cr		mg/l	BLQ(LOQ:0.0025)
24	Mercury as Hg	IS 3025 (Part 2)	mg/l	BLQ(LOQ:0.001)
25	Arsenic as As		mg/l	BLQ(LOQ:0.001)

For Chennai Testing Laboratory Pvt Ltd

The Report shall not be used to malign, defame and for any malicious purpose.
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A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu, India

Head - Water & Soil Division

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiesting.com | www.ctlabs.in Page 1 of 2



CHENNAI

TESTING LABORATORY PRIVATE LIMITED

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29813/2024-25 & 04.10.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS
26	Nitrate Nitrogen as N	IS 3025 (Part 34/Sec 1)	mg/l	3.77
27	Percent Sodium	CTL/SOP/WATER/60	%	48.73
28	Sodium absorption ratio	IS 11624	-	5.15
29	Oil & Grease	IS 3025 (Part 39)	mg/l	BLQ(LOQ:2.0)

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification:

END OF REPORT

Verified by

For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 2 of 2

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A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India
Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com www.ctllabs.in



TC - 14314

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date: CTL/CH/N-29812/2024-25 & 04.10.2024
 Sample Number: N-29812/24-25
 Name of the Customer: M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
 Address: Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by: Laboratory
 Sample Name: Ground Water
 Sample Description: Ground Water
 Sampling Location: Mooka Gounder, Pongudipatti
 Sample Drawn on: 21.09.2024
 Sample Received on: 22.09.2024
 Sampling Plan & Procedure: Grab Sample & CTL/QSP/09
 Sample Quantity: 2 Litres
 Sample Condition: Good & Received in Plastic Container
 Environmental Conditions: Temperature- 33.1°C and Humidity- 57.2%
 Equipment used for Sampling: NA
 Analysis Started on: 23.09.2024
 Analysis Completed on: 04.10.2024

Test Results:

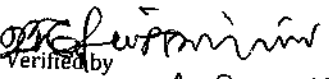
The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL & BIOLOGICAL
 GROUP : WATER

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS 3025 (Part 4)	HU	2
2	Odour	IS 3025 (Part 5)	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)	-	7.7
4	Taste	IS 3025 (Part 8)	-	Agreeable
5	Turbidity	IS 3025 (Part 10)	NTU	2
6	Total Dissolved Solids	IS 3025 (Part 16)	mg/l	734
7	Calcium as Ca	IS 3025 (Part 40)	mg/l	98
8	Chloride as Cl	IS 3025 (Part 32)	mg/l	170
9	Fluoride as F	IS 3025 (Part 60)	mg/l	0.24
10	Iron as Fe	IS 3025 (Part 53)	mg/l	0.24
11	Magnesium as Mg	IS 3025 (Part 46)	mg/l	53
12	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1)	mg/l	BLQ(LOQ:0.001)
13	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1)	mg/l	59
14	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)	mg/l	305
15	Total Hardness as CaCO ₃	IS 3025 (Part 21)	mg/l	462
16	Cyanide as CN	IS 3025 (Part 27/Sec 1)	mg/l	BLQ(LOQ:0.001)
17	Total Suspended Solids	IS 3025 (Part 17)	mg/l	BLQ(LOQ:2.0)
18	Residual Free Chlorine	IS 3025 (Part 26)	mg/l	BLQ(LOQ:0.1)
19	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)	mg/l	BLQ(LOQ:2.0)
20	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)	mg/l	BLQ(LOQ:4.0)
21	Potassium as K	IS 3025 (Part 45)	mg/l	8
22	Dissolved Oxygen	IS 3025 (Part 38)	mg/l	7.1
23	Chromium as Cr	IS 3025 (Part 2)	mg/l	BLQ(LOQ:0.0025)
24	Mercury as Hg		mg/l	BLQ(LOQ:0.001)
25	Arsenic as As		mg/l	BLQ(LOQ:0.001)

For Chennai Testing Laboratory Pvt Ltd

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Verified by: 

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai 600 032, Tamil Nadu, India
 Head - Water & Soil Division
 Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiesting.com | www.ctllabs.in

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29812/2024-25 & 04.10.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
26	Nitrate Nitrogen as N	IS 3025 (Part 34/Sec 1)	mg/l	1.78
27	Percent Sodium	CTL/SOP/WATER/60	%	32.74
28	Sodium absorption ratio	IS 11624	-	2.14
29	Oil & Grease	IS 3025 (Part 39)	mg/l	BLQ(LOQ:2.0)

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification:

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

[Signature]
verified by

[Signature]
Authorised Signatory

Page 2 of 2

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

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Phone : +91-44-2250 1757 | E-mail : chennaitesting@chennaitestinglab.com www.ctllabs.in

Tamilnadu Newsprint and Papers Limited UNIT II

Online Treated Effluent Monitoring - April'2024

Date	Inlet to ETP - Vol (M ³)	Treated Water to Irrigation - Vol (M ³)	PH	BOD - (mg/litre)	COD - (mg/litre)	TSS - (mg/litre)
01-04-2024	7506.97	11.09	7.06	10.94	74.69	5.38
02-04-2024	7656.09	11.01	7.83	1.16	68.56	5.69
03-04-2024	7244.62	10.2	8.16	7.47	94.62	5.5
04-04-2024	8043.09	10.76	7.59	7.84	99.62	5.34
05-04-2024	9323.94	10.54	7.68	14.88	187.03	7.56
06-04-2024	6633.74	10.6	7.32	8.41	80.41	1.03
07-04-2024	7333.27	10.7	6.86	9.28	87.41	1.06
08-04-2024	7105.8	10.64	6.71	8.34	104.69	1.06
09-04-2024	6791.21	10.99	7.05	7.09	88.91	1.03
10-04-2024	7314.58	9.95	6.88	7.06	89.56	5.16
11-04-2024	7839.63	10.58	7.36	8	100.69	5.53
12-04-2024	7875.3	9.78	7.81	10	127.09	6.06
13-04-2024	8015.43	10.54	7.96	12.94	68.59	5.72
14-04-2024	7555.42	10.13	8.04	12.16	68.56	6.41
15-04-2024	7373.34	10.48	6.96	10	68.59	5.34
16-04-2024	7687.64	10.67	6.8	10.72	68.56	5.56
17-04-2024	7059.03	10.96	8.14	16.62	104.5	1.06
18-04-2024	7532.31	11.23	7.77	5.5	68.59	2.69
19-04-2024	7520.72	10.82	7.21	5.5	68.59	7.91
20-04-2024	7317.11	10.72	7.36	5.16	68.56	12.19
21-04-2024	6960.33	10.59	7.38	5.16	68.56	10.56
22-04-2024	6946.37	10.49	7.64	6.06	68.59	9.47
23-04-2024	6832.3	11.13	7.4	4.25	68.56	9.31
24-04-2024	8028.69	11.14	8.02	4.59	147.09	8.94
25-04-2024	7402.67	11.44	8.18	4.78	149.94	8.28
26-04-2024	7655.09	11.7	7.6	4.06	128.19	8.06
27-04-2024	8102.6	11.93	7.8	4.78	228.88	9.16
28-04-2024	7332.79	10.79	7.55	6.19	138.41	8.78
29-04-2024	8454.82	11.29	7.44	6.22	138.81	8.25
30-04-2024	8017.35	11.62	6.45	5.34	119.06	5.41
Max	9324	11.93	8.18	16.62	228.88	12.19
Min	6634	10	6	1	69	1
Avg	7549	11	7	8	101	6

GENERAL-MANAGER
R&D AND QC
TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K.PERIYAPATTI (PO),
MANAPPARAI (TK.), TRICHY (DT)-621306.

Tamilnadu Newsprint and Papers Limited UNIT II

Online Treated Effluent Monitoring - May'2024

Date	Inlet to ETP - Vol (M ³)	Treated Water to Irrigation - Vol (M ³)	PH	BOD - (mg/litre)	COD - (mg/litre)	TSS - (mg/litre)
01-05-2024	6706.46	11.20	6.84	4.59	86.16	4.66
02-05-2024	7354.77	11.47	6.61	4.78	91.44	4.31
03-05-2024	7133.36	11.48	8.11	1.53	68.62	5.38
04-05-2024	7243.93	11.34	7.97	4.44	84.03	8.44
05-05-2024	7217.68	11.50	8.27	1.19	68.59	5.00
06-05-2024	7083.65	10.62	8.27	2.81	68.59	5.00
07-05-2024	7101.35	11.60	8.27	8.72	219.00	4.91
08-05-2024	8097.61	11.29	7.48	3.72	68.59	4.84
09-05-2024	7653.96	12.25	8.23	3.16	68.59	5.72
10-05-2024	7220.20	11.19	6.64	1.91	68.56	1.06
11-05-2024	7702.83	10.72	7.04	4.97	68.56	1.03
12-05-2024	8199.88	10.55	6.84	4.75	68.56	1.03
13-05-2024	7514.27	10.71	6.90	5.12	68.56	1.03
14-05-2024	8045.67	10.14	7.14	23.81	241.34	8.97
15-05-2024	8716.81	11.07	7.03	5.31	68.59	1.06
16-05-2024	8683.84	4460.78	7.37	3.88	68.59	1.06
17-05-2024	9027.81	7439.47	6.54	3.34	68.62	1.06
18-05-2024	7886.95	5064.30	7.11	1.16	68.56	1.03
19-05-2024	7544.23	5189.54	6.95	2.44	68.59	1.06
20-05-2024	8165.11	6397.91	7.14	1.34	68.59	1.06
21-05-2024	8150.34	8587.13	7.11	14.00	241.31	7.22
22-05-2024	7515.08	8670.69	7.02	3.56	68.59	6.81
23-05-2024	7774.37	6446.10	7.15	9.47	155.66	7.19
24-05-2024	7870.85	6224.87	7.34	1.16	68.56	7.00
25-05-2024	7398.54	4609.21	7.19	9.09	150.69	8.28
26-05-2024	7106.12	4477.56	6.52	10.00	165.12	8.09
27-05-2024	8006.07	4652.01	6.45	8.72	144.19	11.50
28-05-2024	7604.94	4718.23	6.94	10.00	166.41	5.25
29-05-2024	7694.65	4757.80	7.37	1.16	68.59	3.75
30-05-2024	8829.61	5062.78	6.45	10.00	164.81	43.16
31-05-2024	8262.81	5128.62	6.64	6.56	164.97	8.44
Max	9028	8671	8.27	23.81	241.34	43.16
Min	6706	10	6.45	1.16	68.56	1.03
Avg	7759	2969	7.19	5.70	106.76	5.95

* Plant Maintenance

GENERAL MANAGER
R&D AND QC
TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K.PERIYAPATTI (PO),
MANAPPARAI (TK.), TRICHY (DT)-621306.

Tamilnadu Newsprint and Papers Limited UNIT II

Online Treated Effluent Monitoring - June'2024

Date	Inlet to ETP - Vol (M ³)	Treated Water to Irrigation - Vol (M ³)	PH	BOD - (mg/litre)	COD - (mg/litre)	TSS - (mg/litre)
01-06-2024	8593.01	6577.36	7.07	5.66	93.34	8.56
02-06-2024	9146.82	5492.95	7.01	4.41	71.47	11.25
03-06-2024	7907.18	6871.81	7.21	2.44	68.56	3.75
04-06-2024	8335.00	5601.75	7.23	3.72	68.59	3.94
05-06-2024	8357.39	7211.10	7.41	4.97	82.25	10.22
06-06-2024	9211.04	6732.81	7.32	4.59	74.53	5.56
07-06-2024	8803.66	7343.42	7.34	2.81	68.59	6.09
08-06-2024	9157.55	7014.49	7.44	5.31	105.06	4.50
09-06-2024	8841.15	6644.65	7.49	3.88	75.97	4.31
10-06-2024	9706.30	7492.48	7.35	3.38	68.59	30.28
11-06-2024	7785.11	6652.66	7.20	5.88	116.34	3.84
12-06-2024	8148.94	5013.46	7.15	2.81	68.59	2.50
13-06-2024	7499.53	4888.96	7.05	4.44	86.16	3.25
14-06-2024	8792.65	5402.59	6.88	3.34	68.59	1.06
15-06-2024	7338.75	4915.67	7.03	3.91	68.59	1.06
16-06-2024	6703.44	4758.28	6.92	1.19	68.59	1.06
17-06-2024	6332.04	6154.46	6.52	3.84	156.34	1.28
18-06-2024	6426.05	4262.69	6.97	1.12	68.59	2.84
19-06-2024	6944.94	5531.55	6.88	1.16	68.59	1.06
20-06-2024	8980.58	6678.87	6.88	1.19	68.56	1.78
21-06-2024	7539.26	6856.69	6.88	1.12	68.56	1.03
22-06-2024	6951.40	5321.61	6.75	1.19	68.59	1.06
23-06-2024	7431.00	5292.43	6.97	1.19	68.59	1.09
24-06-2024	7092.54	6748.50	6.99	1.19	68.59	1.06
25-06-2024	7419.91	5421.93	7.18	2.12	68.56	3.41
26-06-2024	7024.23	5429.22	6.94	1.94	68.59	3.22
27-06-2024	7697.42	4738.41	7.03	2.12	68.59	3.59
28-06-2024	7358.24	6511.43	6.95	4.25	68.56	3.41
29-06-2024	6451.10	4687.50	6.79	2.97	68.56	3.41
30-06-2024	7736.92	4949.84	6.73	2.84	68.59	3.62
Max	9706	7492	7.49	5.88	156.34	30.28
Min	6332	4263	6.52	1.12	68.56	1.03
Avg	7857	5907	7.05	3.03	76.72	4.44

* Plant Maintenance

**GENERAL MANAGER
R&D AND QC**

**TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K.PERIYAPATTI (PO),
MANAPPARAI (TK.), TRICHY (DT)-621308,**

Tamilnadu Newsprint and Papers Limited UNIT II

Online Treated Effluent Monitoring - July'2024

Date	Inlet to ETP - Vol (M ³)	Treated Water to Irrigation - Vol (M ³)	PH	BOD - (mg/litre)	COD - (mg/litre)	TSS - (mg/litre)
01-07-2024	7957.81	5074.01	6.94	2.47	68.59	3.22
02-07-2024	8989.26	7591.16	7.06	6.25	68.59	4.88
03-07-2024	8687.98	6114.37	7.26	2.66	68.59	3.78
04-07-2024	8654.19	6460.55	7.09	1.53	68.56	3.56
05-07-2024	8114.70	6092.36	7.08	1.87	68.56	3.19
06-07-2024	8356.70	6472.08	7.13	1.19	68.59	3.06
07-07-2024	8101.58	5580.50	7.03	1.75	68.56	3.03
08-07-2024	6990.19	5104.71	7.11	2.66	68.56	3.03
09-07-2024	6976.14	5682.66	7.11	6.56	68.59	3.41
10-07-2024	7873.47	5062.20	7.28	8.03	68.56	3.41
11-07-2024	8089.36	7109.66	7.17	11.62	68.59	10.75
12-07-2024	5945.27	4183.90	6.45	2.16	68.59	2.37
13-07-2024	6338.10	3987.93	7.80	8.59	68.62	6.12
14-07-2024	7157.82	7463.31	7.48	6.41	68.59	5.94
15-07-2024	7863.66	5410.77	7.18	6.44	68.59	3.59
16-07-2024	6457.92	4938.59	7.08	10.53	68.59	5.00
17-07-2024	7578.51	5646.04	6.48	8.56	68.56	5.56
18-07-2024	8350.53	6546.55	6.60	6.78	68.59	5.94
19-07-2024	8171.77	7007.10	8.27	2.28	68.56	2.31
20-07-2024	7043.89	4202.74	7.72	13.09	115.97	5.25
21-07-2024	7135.01	5714.75	7.75	6.56	68.59	3.41
22-07-2024	6661.25	4975.37	8.27	1.91	68.56	2.31
23-07-2024	8442.18	6091.16	6.78	6.75	68.59	3.06
24-07-2024	7436.51	6402.89	6.57	3.53	68.59	4.12
25-07-2024	8208.65	4894.96	6.73	1.53	68.59	3.59
26-07-2024	7891.66	5379.99	6.52	3.38	68.59	3.97
27-07-2024	8504.66	5220.56	6.75	3.88	76.88	4.31
28-07-2024	7636.36	5341.14	6.68	4.47	86.69	4.53
29-07-2024	7830.94	4396.34	6.58	4.41	88.91	3.78
30-07-2024	9583.34	6039.80	6.68	6.47	125.78	4.31
31-07-2024	7691.13	6084.50	6.80	3.12	68.62	3.22
Max	9583	7591	8.27	13.09	125.78	10.75
Min	5945	3988	6.45	1.19	68.56	2.31
Avg	7765	5686	7.08	5.08	73.46	4.13

* Plant Maintenance

**GENERAL MANAGER
R&D AND QC
TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K.PERIYAPATTI (PO),
MANAPPARAI (TK), TRICHY (DT)-621306.**

Tamilnadu Newsprint and Papers Limited UNIT II**Online Treated Effluent Monitoring - August'2024**

Date	Inlet to ETP - Vol (M ³)	Treated Water to Irrigation - Vol (M ³)	PH	BOD - (mg/litre)	COD - (mg/litre)	TSS - (mg/litre)
01-08-2024	8468	5401	6.75	3.72	72.91	3.81
02-08-2024	7871	5368	6.70	5.88	117.09	4.31
03-08-2024	7973	4979	6.45	5.28	104.75	3.19
04-08-2024	7828	5213	6.56	5.31	104.38	4.31
05-08-2024	7412	5482	6.57	6.56	131.28	4.31
06-08-2024	6997	2818	7.64	8.22	162.50	6.66
07-08-2024	7720	1588	7.80	6.22	122.47	6.84
08-08-2024	6406	2612	7.48	6.06	119.75	13.88
09-08-2024	7669	5275	7.54	9.31	183.78	4.72
10-08-2024	8071	5997	7.96	5.88	118.31	3.44
11-08-2024	8154	4797	7.74	6.03	121.19	3.44
12-08-2024	8671	5684	7.94	5.31	107.72	2.87
13-08-2024	7398	7163	7.87	5.31	107.53	2.72
14-08-2024	7182	4475	8.06	5.88	116.53	2.72
15-08-2024	6607	5995	7.83	5.88	118.88	2.72
16-08-2024	6473	5610	7.81	4.78	95.12	2.72
17-08-2024	6524	5420	7.88	5.16	101.03	2.72
18-08-2024	7348	5146	7.85	4.44	86.69	2.69
19-08-2024	7775	5525	7.38	5.66	111.12	4.84
20-08-2024	6903	5192	7.72	5.19	102.47	3.41
21-08-2024	6600	4530	7.73	4.59	91.72	3.41
22-08-2024	6195	5644	7.63	4.97	99.84	3.97
23-08-2024	6213	4493	7.83	5.69	114.75	2.87
24-08-2024	6717	5471	7.82	5.69	115.25	2.91
25-08-2024	6730	5362	7.62	6.03	121.91	3.22
26-08-2024	7005	5620	7.27	4.97	98.38	3.06
27-08-2024	7394	5190	7.25	5.69	114.16	3.06
28-08-2024	6917	5437	7.51	5.66	112.34	2.72
29-08-2024	7101	5004	7.70	6.03	120.81	2.72
30-08-2024	7420	5925	7.56	7.12	142.16	3.59
31-08-2024	7213	4904	7.54	9.78	194.78	13.84
Max	8671	7163	8.06	9.78	194.78	13.88
Min	6195	1588	6.45	3.72	72.91	2.69
Avg	7257	5075	7.52	5.88	117.15	4.25

GENERAL MANAGER
R&D AND QC
TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K.PERIYAPATTI (PO),
MANAPPARAI (TK.), TRICHY (DT)-621306.

Tamilnadu Newsprint and Papers Limited UNIT II

Online Treated Effluent Monitoring - September'2024

Date	Inlet to ETP - Vol (M ³)	Treated Water to Irrigation - Vol (M ³)	PH	BOD - (mg/litre)	COD - (mg/litre)	TSS - (mg/litre)
01-09-2024	8032	5374	7.32	10.34	206.06	4.50
02-09-2024	7681	5017	7.70	5.88	68.59	4.88
03-09-2024	7864	4999	7.39	13.69	135.31	5.03
04-09-2024	7558	6091	7.56	11.81	118.31	6.66
05-09-2024	8001	5830	7.27	10.78	106.16	10.22
06-09-2024	7030	6433	7.53	10.34	103.78	2.87
07-09-2024	6977	5423	7.70	5.88	68.59	2.87
08-09-2024	6390	6497	7.68	12.53	123.69	4.50
09-09-2024	6444	5613	7.63	8.91	89.44	4.50
10-09-2024	6862	5079	7.45	10.91	108.12	4.31
11-09-2024	6995	6736	7.72	10.91	108.66	4.31
12-09-2024	7160	6761	7.27	10.75	105.97	5.22
13-09-2024	6740	6627	7.70	15.28	171.25	5.25
14-09-2024	7568	6799	7.20	18.06	205.69	5.06
15-09-2024	6511	6016	6.99	15.44	174.78	4.69
16-09-2024	5730	5038	7.38	11.09	137.16	4.34
17-09-2024	5816	5579	7.22	8.75	109.88	4.53
18-09-2024	6753	4609	7.14	10.38	129.97	4.50
19-09-2024	6721	6339	7.38	10.19	126.94	4.31
20-09-2024	6407	5214	7.39	8.75	109.00	4.50
21-09-2024	6204	5254	7.32	6.97	85.06	4.31
22-09-2024	6966	6107	7.33	6.78	83.31	4.31
23-09-2024	6319	5573	7.34	7.50	92.12	4.50
24-09-2024	6513	5904	7.30	8.72	110.81	4.31
25-09-2024	6712	6713	7.33	8.75	108.47	4.31
26-09-2024	6692	7475	7.33	6.56	81.38	4.31
27-09-2024	6835	6393	7.40	10.38	129.62	4.31
28-09-2024	8583	6846	7.46	8.19	101.59	4.31
29-09-2024	6863	9909	7.44	7.50	91.94	4.31
30-09-2024	7567	8360	7.80	6.94	87.41	4.31
Max	8583	9909	7.80	18.06	206.06	10.22
Min	5730	4609	6.99	5.88	68.59	2.87
Avg	6950	6154	7.42	9.97	115.97	4.68

* Plant Maintenance




**GENERAL MANAGER
R&D AND QC
TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K.PERIYAPATTI (PO),
MANAPPARAI (TK.), TRICHY (DT)-621308.**

TEST REPORT

Test Report No & Date CTL/CH/N-21527/2024-25 & 06.05.2024
Sample Number N-21527/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Effluent Water
Sample Description Treated Effluent Water
Sampling Location Final Treated Effluent
Sample Drawn on 26.04.2024
Sample Received on 27.04.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.2°C and Humidity- 57.0%
Equipment used for Sampling NA
Analysis Started on 27.04.2024
Analysis Completed on 06.05.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	7.9	5.5 to 9.0
2	Colour	IS : 3025 (Part 4)- 2021	HU	2	-
3	Total Dissolved Solids	IS 3025 (Part 16)-1984 (RA.2017)	mg/l	2028	Max.2100
4	Total Suspended Solids	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	9	Max.200
5	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	12	Max.100
6	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	56	-
7	Chloride as Cl	IS 3025 (Part 32)-1988 (RA.2019)	mg/l	494	Max.600
8	Sulphate as SO ₄	IS 3025 (Part 24/sec -1) - 2022	mg/l	633	Max.1000
9	Oil & Grease	IS 3025 (Part 39) - 2021	mg/l	< 2	Max.10
10	Ammonical Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	0.5	Max.50
11	Total Nitrogen as N	IS 3025 (Part 34) 1988 (RA.2019)	mg/l	3.7	-
12	Total Kjeldahl Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	1.3	-
13	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/sec 1) 2022	mg/l	BDL(DL:0.001)	-
14	Percent Sodium	CTL/SOP/WATER/60-2022	%	53.26	Max.60
15	Sulphide as S	IS 3025 (Part 29)-1986 (RA.2019)	mg/l	BDL(DL:0.01)	-

For Chennai Testing Laboratory Pvt Ltd

Verified by 

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 A. RAJKUMAR

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu, India

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com

TEST REPORT

Test Report No & Date	CTL/CH/N-21527/2024-25 & 06.05.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
16	Total Organic Carbon (TOC)	5310-C-APHA 23rd Ed.2017	mg/l	21.05	-
17	AOX	EPA 1653.5021&8260	mg/l	1.2	-

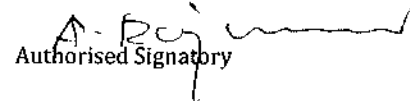
BDL - Below Detection Limit; DL - Detection limit; Max. - Maximum.

*Limits as per TNPCB Norms for Trade Effluent

END OF REPORT

Verified by 

For Chennai Testing Laboratory Pvt Ltd


Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 2 of 2

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-22659/2024-25 & 30.05.2024
Sample Number N-22659/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Effluent Water
Sample Description Treated Effluent Water
Sampling Location Final Treated Effluent
Sample Drawn on 22.05.2024
Sample Received on 24.05.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.4°C and Humidity- 58.2%
Equipment used for Sampling NA
Analysis Started on 24.05.2024
Analysis Completed on 30.05.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	7.4	5.5 to 9.0
2	Colour	IS : 3025 (Part 4)- 2021	HU	2	-
3	Total Dissolved Solids	IS 3025 (Part 16)-1984 (RA.2017)	mg/l	960	Max.2100
4	Total Suspended Solids	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	6	Max.200
5	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	7	Max.100
6	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	28	-
7	Chloride as Cl	IS 3025 (Part 32)-1988 (RA.2019)	mg/l	255	Max.600
8	Sulphate as SO ₄	IS 3025 (Part 24/sec -1) - 2022	mg/l	125	Max.1000
9	Oil & Grease	IS 3025 (Part 39) - 2021	mg/l	< 2	Max.10
10	Ammonical Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	0.7	Max.50
11	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	3.2	-
12	Total Kjeldahl Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	1.8	-
13	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/sec 1) 2022	mg/l	BDL(DL:0.001)	-
14	Percent Sodium	CTL/SOP/WATER/60-2022	%	57.53	Max.60
15	Sulphide as S	IS 3025 (Part 29)-1986 (RA.2019)	mg/l	BDL(DL:0.01)	-

For Chennai Testing Laboratory Pvt Ltd

Verified by 

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Authorized Signatory 

A. RAJKUMAR

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 092, Tamil Nadu

Water and Soil Division
(CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-22659/2024-25 & 30.05.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
16	Total Organic Carbon (TOC)	5310-C-APHA 23rd Ed.2017	mg/l	10.5	-
17	AOX	EPA 1653,5021&8260	mg/l	1.0	-

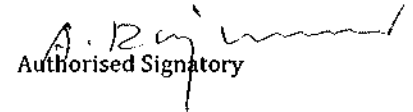
BDL - Below Detection Limit; DL - Detection limit; Max. - Maximum.

*Limits as per TNPCB Norms for Trade Effluent

*****END OF REPORT*****

For Chennai Testing Laboratory Pvt Ltd

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Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 2 of 2

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A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennaitesting@chennaitestinglab.com www.ctllabs.in

TEST REPORT

Test Report No & Date CTL/CH/N-24967/2024-25 & 06.07.2024
Sample Number N-24967/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Effluent Water
Sample Description Treated Effluent Water
Sampling Location Final Treated Effluent
Sample Drawn on 26.06.2024
Sample Received on 27.06.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.8°C and Humidity- 57.3%
Equipment used for Sampling NA
Analysis Started on 27.06.2024
Analysis Completed on 05.07.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	7.2	5.5 to 9.0
2	Colour	IS : 3025 (Part 4)- 2021	HU	5	-
3	Total Dissolved Solids	IS 3025 (Part 16)-1984 (RA.2017)	mg/l	2020	Max.2100
4	Total Suspended Solids	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	15	Max.200
5	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	18	Max.100
6	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	76	-
7	Chloride as Cl	IS 3025 (Part 32)-1988 (RA.2019)	mg/l	586	Max.600
8	Sulphate as SO ₄	IS 3025 (Part 24/sec -1) - 2022	mg/l	276	Max.1000
9	Oil & Grease	IS 3025 (Part 39) - 2021	mg/l	< 2	Max.10
10	Ammonical Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	11	Max.50
11	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	29	-
12	Total Kjeldahl Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	24	-
13	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/sec 1) 2022	mg/l	BDL(DL:0.001)	-
14	Percent Sodium	CTL/SOP/WATER/60-2022	%	56.80	Max.60
15	Sulphide as S	IS 3025 (Part 29)-1986 (RA.2019)	mg/l	BDL(DL:0.01)	-

For Chennai Testing Laboratory Pvt ltd

[Signature]
 Verified by

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[Signature]
A. RAJKUMAR

Head - Water & Soil Division
 (CHEMICAL)

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India Page 1 of 2

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-24967/2024-25 & 06.07.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
16	Total Organic Carbon (TOC)	5310-C-APHA 23rd Ed.2017	mg/l	28.57	-
17	AOX	EPA 1653,5021&8260	mg/l	1.6	-

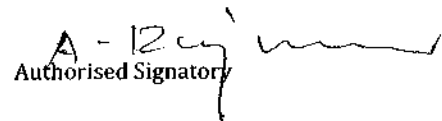
BDL - Below Detection Limit; DL - Detection limit; Max. - Maximum.

*Limits as per TNPCB Norms for Trade Effluent

*****END OF REPORT*****

For Chennai Testing Laboratory Pvt Ltd

Verified by 

A-12 
Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 2 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-26989/2024-25 & 07.08.2024
Sample Number	N-26989/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Effluent Water
Sample Description	Treated Effluent Water
Sampling Location	Final Treated Effluent
Sample Drawn on	31.07.2024
Sample Received on	01.08.2024
Sampling Plan & Procedure	Grab Sample & CTL/QSP/09
Sample Quantity	2 Litres
Sample Condition	Good & Received in Plastic Container
Environmental Conditions	Temperature- 31.2°C and Humidity- 58.1%
Equipment used for Sampling	NA
Analysis Started on	01.08.2024
Analysis Completed on	07.08.2024

Test Results:


The above sample tested as received, and results are as follows:

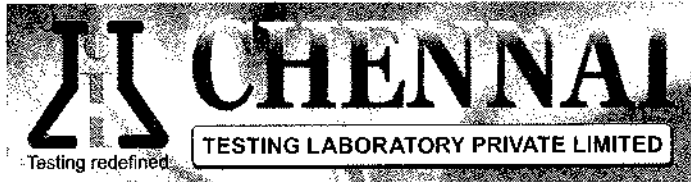
S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	7.6	5.5 to 9.0
2	Colour	IS : 3025 (Part 4)- 2021	HU	5	-
3	Total Dissolved Solids	IS 3025 (Part 16)-1984 (RA.2017)	mg/l	1340	Max.2100
4	Total Suspended Solids	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	4	Max.200
5	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	10	Max.100
6	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	42	-
7	Chloride as Cl	IS 3025 (Part 32)-1988 (RA.2019)	mg/l	375	Max.600
8	Sulphate as SO ₄	IS 3025 (Part 24/sec -1) - 2022	mg/l	254	Max.1000
9	Oil & Grease	IS 3025 (Part 39) - 2021	mg/l	< 2	Max.10
10	Ammonical Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	3.5	Max.50
11	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	8.6	-
12	Total Kjeldahl Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	5.4	-
13	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/sec 1) 2022	mg/l	BDL(DL:0.001)	-
14	Percent Sodium	CTL/SOP/WATER/60-2022	%	59.60	Max.60
15	Sulphide as S	IS 3025 (Part 29)-1986 (RA.2019)	mg/l	BDL(DL:0.01)	-

For Chennai Testing Laboratory Pvt Ltd

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Verified by  A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032


Head - Water & Soil Division
(CHEMICAL)



CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-26989/2024-25 & 07.08.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
16	Total Organic Carbon (TOC)	5310-C-APHA 23rd Ed.2017	mg/l	15.78	-
17	AOX	EPA 1653,5021&8260	mg/l	1.1	-

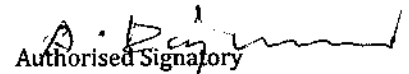
BDL - Below Detection Limit; DL - Detection limit; Max. - Maximum.

*Limits as per TNPCB Norms for Trade Effluent

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

Verified by 


Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 2 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

TC - 14314

Test Report No & Date CTL/CH/N-28128/2024-25 & 02.09.2024
Sample Number N-28128/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Effluent Water
Sample Description Treated Effluent Water
Sampling Location Final Treated Effluent
Sample Drawn on 23.08.2024
Sample Received on 24.08.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.1°C and Humidity- 57.2%
Equipment used for Sampling NA
Analysis Started on 24.08.2024
Analysis Completed on 02.09.2024

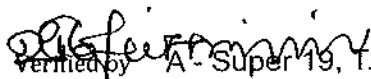
Test Results:

The above sample tested as received, and results are as follows:


S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	7.1	5.5 to 9.0
2	Colour	IS : 3025 (Part 4)- 2021	HU	5	-
3	Total Dissolved Solids	IS 3025 (Part 16)-1984 (RA.2017)	mg/l	1744	Max.2100
4	Total Suspended Solids	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	4	Max.200
5	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	16	Max.100
6	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	146	-
7	Chloride as Cl	IS 3025 (Part 32)-1988 (RA.2019)	mg/l	356	Max.600
8	Sulphate as SO ₄	IS 3025 (Part 24/sec -1) - 2022	mg/l	254	Max.1000
9	Oil & Grease	IS 3025 (Part 39) - 2021	mg/l	< 2	Max.10
10	Ammonical Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	2.7	Max.50
11	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	6.8	-
12	Total Kjeldahl Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	5.8	-
13	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/sec 1) 2022	mg/l	BDL(DL:0.001)	-
14	Percent Sodium	CTL/SOP/WATER/60-2022	%	57.72	Max.60
15	Sulphide as S	IS 3025 (Part 29)-1986 (RA.2019)	mg/l	BDL(DL:0.01)	-

For Chennai Testing Laboratory Pvt Ltd

The Report shall not be used to malign, defame and for any malicious purpose.
 The Report is meant only for sole use of the addressee to promote his/her own business.

Verified by 

A. Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu, India


A. RAJESWAR
 Head, Water & Soil Division
 (CHEMICAL)

Phone : +91-44-2250 1757 | E-mail : chennaiteesting@chennaiteestinglab.com

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-28128/2024-25 & 02.09.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
16	Total Organic Carbon (TOC)	5310-C-APHA 23rd Ed.2017	mg/l	54.90	-
17	AOX	EPA 1653,5021&8260	mg/l	2.7	-

BDL - Below Detection Limit; DL - Detection limit; Max. - Maximum.

*Limits as per TNPCB Norms for Trade Effluent

*****END OF REPORT*****

For Chennai Testing Laboratory Pvt Ltd

[Handwritten Signature]
Verified by

[Handwritten Signature]
Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 2 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-29806/2024-25 & 04.10.2024
Sample Number N-29806/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Effluent Water
Sample Description Treated Effluent Water
Sampling Location Final Treated Effluent
Sample Drawn on 21.09.2024
Sample Received on 22.09.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.1°C and Humidity- 57.2%
Equipment used for Sampling NA
Analysis Started on 23.09.2024
Analysis Completed on 04.10.2024

Test Results:

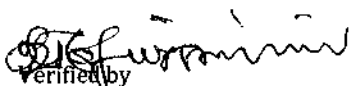
The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL

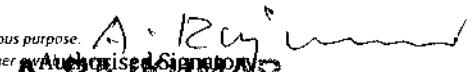
GROUP : POLLUTION AND ENVIRONMENT

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	4500 H+ B- APHA 24th Edn	-	7.3	5.5 to 9.0
2	Colour	2120 B- APHA 24th Edn	HU	5	-
3	Total Dissolved Solids	2540 C- APHA 24th Edn	mg/l	1620	Max.2100
4	Total Suspended Solids	2540 D- APHA 24th Edn	mg/l	16	Max.200
5	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)	mg/l	20	Max.100
6	Chemical Oxygen Demand (COD)	5220 B- APHA 24th Edn	mg/l	84	-
7	Chloride as Cl	4500 Cl- B- APHA 24th Edn	mg/l	405	Max.600
8	Sulphate as SO ₄	4500 SO ₄ E- APHA 24th Edn	mg/l	408	Max.1000
9	Oil & Grease	5520 O&G B - APHA 24th Edn (Partition Gravimetric Method)	mg/l	< 2	Max.10
10	Ammonical Nitrogen as N	4500 NH ₃ B, C - APHA 24th Edn	mg/l	3.9	Max.50
11	Total Nitrogen as N	4500 - N - APHA 24th Edn	mg/l	11.2	-
12	Total Kjeldahl Nitrogen as N	4500 N - B, C- APHA 24th Edn	mg/l	7.5	-
13	Phenolic Compounds as C ₆ H ₅ OH	5530 B,C- APHA 24th Edn	mg/l	BLQ(LOQ:0.001)	-
14	Percent Sodium	CTL/SOP/WATER/60	%	54.06	Max.60
15	Sulphide as S	4500- S2 -F- APHA 24th Edn	mg/l	BLQ(LOQ:0.1)	-

For Chennai Testing Laboratory Pvt Ltd

Verified by 

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 A. RAJKUMAR

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu, India

Head - Water & Soil Division
 (CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29806/2024-25 & 04.10.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
16	Total Organic Carbon (TOC)	5310-C-APHA 24th Edn	mg/l	31.57	-
17	AOX	EPA 1653, 5021& 8260	mg/l	1.2	-

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification; Max. - Maximum.

*Limits as per TNPCB Norms for Trade Effluent

*****END OF REPORT*****

For Chennai Testing Laboratory Pvt Ltd

[Signature]
Verified by

[Signature]
Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 2 of 2

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A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com www.ctllabs.in

15 MLD Effluent Treatment Plant at TNPL Unit - II

Brief Description on 15 MLD Effluent Treatment Plant:

We have a full fledged 15 MLD ETP operating efficiently with complete system towards treatment of effluent generated from various sections.

- Primary clarification,
- MBBR technology,
- Biological activated sludge process with secondary clarifier,
- DAF system and Pressure sand filter

Latest generation cooking technology helps minimize emission and reduces consumption of steam, power and bleaching chemicals when compared with that of conventional plants. Modern ECF bleaching technology reduces AoX levels in the wastewater. Minimum treated waste water discharge - Entire quantity will be used for irrigation in company's own land

15 MLD Effluent Treatment Plant at TNPL Unit - II



PRIMARY CLARIFIER

15 MLD Effluent Treatment Plant at TNPL Unit - II



MOVING BED BIOFILM REACTOR (MBBR)



BIOLOGICAL ACTIVATED SLUDGE PROCESS WITH FINE BUBBLE DIFFUSERS

15 MLD Effluent Treatment Plant at TNPL Unit - II



SECONDARY CLARIFIER

15 MLD Effluent Treatment Plant at TNPL Unit - II



OUTLET OF DAF SYSTEM




PRESSURE SAND FILTERS

15 MLD Effluent Treatment Plant at TNPL Unit - II



SAMPLES OF RAW EFFLUENT & FINAL TREATED WATER


GENERAL MANAGER
R&D AND QC
TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, K.PERIYAPATTI (PO),
MANAPPARAI (TK.), TRICHY (DT)-621306.

TNPL Unit - II Sewage Treatment Plant

The following are the STP details installed in Paper Board Plant and in Captive Co-Gen Plant.		
Name of the Treatment Unit	No. of Units	Dimension
STP's & Septic Tank Covered under Paper Board Unit		
STP #1 (Board machine)	1	20 KLD
STP #2 (Guest House)	1	20 KLD
STP#3(Pulpmill,FH area)	1	10 KLD
STP#4 (Admin area)	1	20 KLD
Total STPs under Paper Board Unit	4	70 KLD
Septic Tank #1 @ Stores Dept	1	4.02mx1.32mx2.53
STP's Covered under Captive Co-Gen Plant		
Captive Power Plant area (STP #1)	1	10 KLD
STP's Covered under Captive Co-Gen Plant		
Housing Colony (STP #1)	1	60 KLD

The entire STP outlet, after treatment will be utilized for on land gardening.



TEST REPORT

Test Report No & Date CTL/CH/M-21520/2024-25 & 06.05.2024
Sample Number N-21520/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mundipatti Village, K.Penyapatti Post, Manappuram Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Sewage Water
Sample Description Treated Sewage Water
Sampling Location Board Machine Area
Sample Drawn on 26.04.2024
Sample Received on 27.04.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.2°C and Humidity- 57.0%
Equipment used for Sampling NA
Analysis Started on 27.04.2024
Analysis Completed on 06.05.2024

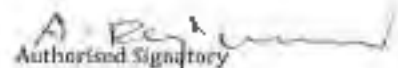
Test Results:

The above sample tested as received, and results are as follows.

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA:2017)	-	8.3	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17) -1984 (RA:2021)	mg/l	19	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA:2019)	mg/l	16	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	54	-
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA:2019)	mg/l	11.3	-
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA:2019)	mg/l	4.8	-

Analysed by 

For Chennai Testing Laboratory Pvt Ltd


Authorized Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 1 of 2

TEST REPORT

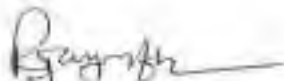
Test Report No & Date	CTL/CH/N-21520/2024-25 & 06.05.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221 E APHA 23rd Edn. 2017	MPN/100ml	46	


Limit - Maximum

*Limits as per TNPCB Norms for Treated Sewage

*****END OF REPORT*****


Verified by

For Chennai Testing Laboratory Pvt Ltd


Authorised Signatory

N. RAJENDRAKUMAR
Head - Quality & Microbiology Division
(MICROBIOLOGY)

Page 2 of 2

TEST REPORT

Test Report No & Date	CTL/CH/N-21521/2024-25 & 06.05.2024
Sample Number	N-21521/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Sewage Water
Sample Description	Treated Sewage Water
Sampling Location	Captive Power Plant Area
Sample Drawn on	26.04.2024
Sample Received on	27.04.2024
Sampling Plan & Procedure	Grab Sample & CTL/QSP/09
Sample Quantity	2 Litres
Sample Condition	Good & Received in Plastic Container
Environmental Conditions	Temperature- 33.2°C and Humidity- 57.0%
Equipment used for Sampling	NA
Analysis Started on	27.04.2024
Analysis Completed on	06.05.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	8.1	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17) - 1984 (RA.2021)	mg/l	16	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) - 1993 (RA.2019)	mg/l	15	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA.2017)	mg/l	50	
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	8.5	-
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	3.8	

For Chennai Testing Laboratory Pvt Ltd

[Signature]
Checked by

[Signature]
Authorized Signatory
A. RAJKUMAR
Head - Water & Soil Division Page 1 of 2
(CHEMICAL)

TEST REPORT

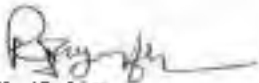
Test Report No & Date	CTL/CH/M-21521/2024-25 & 06.05.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221 E APHA 23rd Edn. 2017	MPN/100ml	49	-

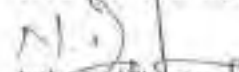
Max. - Maximum

*Limits as per TNPCR Norms for Treated Sewage

*****END OF REPORT*****


Verified by

For Chennai Testing Laboratory Pvt Ltd


Authorized Signatory

N. RAJENDRAKUMAR
Head - Quality & Microbiology Division
(MICROBIOLOGY)

Page 2 of 2

TEST REPORT

Test Report No & Date CTL/CH/N-21522/2024-25 & 06.05.2024
Sample Number N-21522/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Sewage Water
Sample Description Treated Sewage Water
Sampling Location Guest House Area
Sample Drawn on 26.04.2024
Sample Received on 27.04.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.2°C and Humidity- 57.0%
Equipment used for Sampling NA
Analysis Started on 27.04.2024
Analysis Completed on 06.05.2024

Test Results

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	7.8	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17)-1984 (RA.2021)	mg/l	9	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) - 1993 (RA.2019)	mg/l	10	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA.2017)	mg/l	34	
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	6.5	
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	2.0	

For Chennai Testing Laboratory Pvt Ltd

Checked by: 

Authorised Signatory

A. RAJKUMAR

Head - Water & Soil Division
(CHEMICAL)

Page 1 of 2

The Report should be used to verify, approve and for any regulatory purpose.
 The Report is valid only for address of the address to estimate the/for the business.

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennailesting@chennaiestinglab.com

TEST REPORT

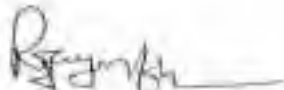
Test Report No & Date	CTL/CH/N-21522/2024-25 & 06.05.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221 B APHA 23rd Edn. 2017	MPN/100ml	23	-

Max. - Maximum.

*Limits as per TNPCB Norms for Treated Sewage

*****END OF REPORT*****


Verified by

For Chennai Testing Laboratory Pvt Ltd


Authorised Signatory

N. RAJENDRAKUMAR Page 2 of 2
Head - Quality & Microbiology Division
(MICROBIOLOGY)

TEST REPORT

Test Report No & Date CTL/CH/N-21523/2024-25 & 06.05.2024
Sample Number N-21523/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Sewage Water
Sample Description Treated Sewage Water
Sampling Location Admin Block Area
Sample Drawn on 26.04.2024
Sample Received on 27.04.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.2°C and Humidity- 57.0%
Equipment used for Sampling NA
Analysis Started on 27.04.2024
Analysis Completed on 06.05.2024

Test Results

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	8.2	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	15	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	14	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA.2017)	mg/l	48	
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	10.3	
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	4.0	

For Chennai Testing Laboratory Pvt Ltd

Verified by 


 Authorised Signatory

A. RAJKUMAR
 Head - Water & Soil Division
 (CHEMICAL)

Page 1 of 2

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A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com

TEST REPORT

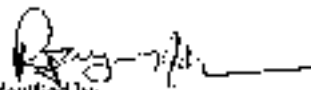
Test Report No & Date	CTL/CH/N-21523/2024-25 & 06.05.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221 E APHA 23rd Edn. 2017	MPN/100ml	33	

Max. Maximum

*Limits as per TNPCD Norms for Treated Sewage

END OF REPORT

Verified by 

For Chennai Testing Laboratory Pvt Ltd


Authorized Signatory

N. RAJENDRAKUMAR
Head - Quality & Microbiology Division
(MICROBIOLOGY) Page 2 of 2

TEST REPORT

Test Report No & Date CTL/CH/N-21524/2024-25 & 06.05.2024
Sample Number N-21524/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Sewage Water
Sample Description Treated Sewage Water
Sampling Location Pulpmill & Finishing House Area
Sample Drawn on 26.04.2024
Sample Received on 27.04.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.2°C and Humidity- 57.0%
Equipment used for Sampling NA
Analysis Started on 27.04.2024
Analysis Completed on 06.05.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	8.5	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17)-1984 (RA.2021)	mg/l	7	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)-1993 (RA.2019)	mg/l	6	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA.2017)	mg/l	28	
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	6.4	-
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	2.3	-

For Chennai Testing Laboratory Pvt Ltd



Authorised Signatory

A. RAJKUMAR
 Head - Water & Soil Division
 (CHEMICAL)

Page 1 of 2

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 The Report is valid only for the use of the address to whom it is issued.

TEST REPORT

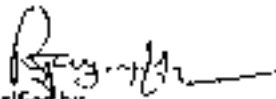
Test Report No & Date	CTL/CH/N-21524/2024-25 & 06.05.2024
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S.NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221 E APHA 23rd Edn. 2017	MPN/100ml	11	-

..max. - Maximum

*Limits as per TNPCD Norms for Treated Sewage

END OF REPORT

Verified by 

For Chennai Testing Laboratory Pvt Ltd

 Authorized Signatory

N. RAJENDRAKUMAR Page 2 of 2
 Head - Quality & Microbiology Division
 (MICROBIOLOGY)

TEST REPORT

Test Report No & Date CTL/CH/N-21525/2024-25 & 06.05.2024
Sample Number N-21525/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II.
Address Mondipattu Village, K.Periyapattu Post, Manapparal Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Sewage Water
Sample Description Treated Sewage Water
Sampling Location Housing Colony Area
Sample Drawn on 26.04.2024
Sample Received on 27.04.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.2°C and Humidity- 57.0%
Equipment used for Sampling NA
Analysis Started on 27.04.2024
Analysis Completed on 06.05.2024

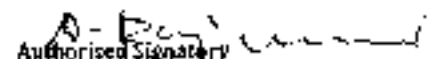
Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	8.2	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	5	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	7	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA.2017)	mg/l	22	-
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	4.5	-
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	1.8	-

For Chennai Testing Laboratory Pvt Ltd

Tested by 

Authorised Signatory 

A. RAJKUMAR
 Head - Water & Soil Division
 (CHEMICAL)

Page 1 of 2

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TEST REPORT

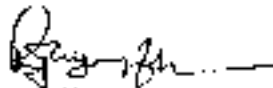
Test Report No & Date	CTL/CH/N-21525/2024-25 & 06.05.2024
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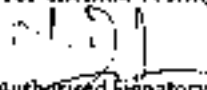
S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221 E APHA 23rd Edn. 2017	MPN/100ml	14	-

max. - Maximum.

*Limits as per TNPCB Norms for Treated Sewage

END OF REPORT


Verified by

For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory.

N. RAJENDRAKUMAR Page 2 of 2
Head - Quality & Microbiology Division
(MICROBIOLOGY)

CIN - U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-22652/2024-25 & 30.05.2024
Sample Number N-22652/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondiyatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Sewage Water
Sample Description Treated Sewage Water
Sampling Location Board Machine Area
Sample Drawn on 22.05.2024
Sample Received on 24.05.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received In Plastic Container
Environmental Conditions Temperature: 33.4°C and Humidity: 58.2%
Equipment used for Sampling NA
Analysis Started on 24.05.2024
Analysis Completed on 30.05.2024


Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11) - 1983 (RA.2017)		8.2	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17) - 1984 (RA.2021)	mg/l	4	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) - 1993 (RA.2019)	mg/l	8	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 50) - 2006 (RA 2017)	mg/l	28	-
5	Total Nitrogen as N	IS 3025 (Part 34) - 1988 (RA.2019)	mg/l	5.7	-
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34) - 1988 (RA.2019)	mg/l	2.3	-

Verified by 

For Chennai Testing Laboratory Pvt Ltd


 Authorised Signatory
A. RAJKUMAR
 Head - Water & Soil Division
 (CHE...)

Page 1 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

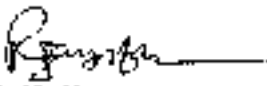
Test Report No & Date	CTL/CH/N-22652/2024-25 & 30.05.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221 E APHA 13rd Edn. 2017	MPN/100ml	33	

Max - Maximum.

*Limits as per TNPCR Norms for Treated Sewage

END OF REPORT


Verified by

For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory

N. RAJENDRAKUMAR
Head - Quality & Microbiology Division
(MICROBIOLOGY)

Page 2 of 2

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-22653/2024-25 & 30.05.2024
Sample Number N-22653/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Sewage Water
Sample Description Treated Sewage Water
Sampling Location Captive Power Plant Area
Sample Drawn on 22.05.2024
Sample Received on 24.05.2024
Sampling Plan & Procedure Grab Sample & CTI /QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.4°C and Humidity- 58.2%
Equipment used for Sampling NA
Analysis Started on 24.05.2024
Analysis Completed on 30.05.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	.	8.5	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17)-1984 (RA.2021)	mg/l	3	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 14) -1993 (RA.2019)	mg/l	7	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 5B)-2006 (RA.2017)	mg/l	26	.
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	5.8	.
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	2.5	.

 Verified by 

For Chennai Testing Laboratory Pvt Ltd

 A. Rajkumar
 Authorised Signatory

A. RAJKUMAR
 Head - Water & Soil Division
 (CHEMICAL)

Page 1 of 2

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 The Report is meant only for the use of the addressee to promote his/her own business

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Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com www.ctilabs.in

CIN : U93000TN2000PTC043869

TEST REPORT

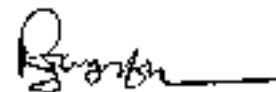
Test Report No & Date	CTL/CH/N-22653/2024-25 & 30.05.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221 & APHA 23rd Edn. 2017	MPN/100ml	14	-


Max. - Maximum.

*Limits as per TNPCB Norms for Treated Sewage

END OF REPORT


Verified by

For Chennai Testing Laboratory Pvt Ltd


Authorized Signatory

N. RAJENDRAKUMAR
Head - Quality & Microbiology Division
(MICROBIOLOGY)

Page 2 of 2

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-22654/2024-25 & 30.05.2024
Sample Number N-22654/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manappuram Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Sewage Water
Sample Description Treated Sewage Water
Sampling Location Guest House Area
Sample Drawn on 22.05.2024
Sample Received on 24.05.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.4°C and Humidity- 58.2%
Equipment used for Sampling NA
Analysis Started on 24.05.2024
Analysis Completed on 30.05.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	8.5	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17)-1984 (RA.2021)	mg/l	2	Max 30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)-1993 (RA.2019)	mg/l	3	Max 20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA.2017)	ug/l	12	-
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	17	-
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	0.5	-

For Chennai Testing Laboratory Pvt Ltd

[Signature]
 Verified by

[Signature]
 Authorised Signatory
A. RAJKUMAR
 Head - Water & Soil Division
 (CHEMICAL)

Page 1 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

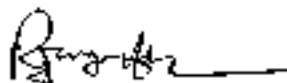
Test Report No & Date	CTL/CH/N-22654/2024-25 & 30.05.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221 EAPHA 23rd Edn 2017	MPN/100ml	11	-

Max - Maximum.

*Limits as per TNPCB Norms for Treated Sewage

*****END OF REPORT*****


Verified by

For Chennai Testing Laboratory Pvt Ltd


Authorised Signatory -

N. RAJENDRAKUMAR
Head - Quality & Microbiology Division
(MICROBIOLOGY)

Page 2 of 2

CIN : U93000TN2000PT0043869

TEST REPORT

Test Report No & Date CTL/CH/N-22655/2024-25 & 30.05.2024
Sample Number N-22655/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Penyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Sewage Water
Sample Description Treated Sewage Water
Sampling Location Admin Block Area
Sample Drawn on 22.05.2024
Sample Received on 24.05.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.4°C and Humidity- 58.2%
Equipment used for Sampling NA
Analysis Started on 24.05.2024
Analysis Completed on 30.05.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA 2017)	.	8.3	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	2	Max 30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	9	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	34	.
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	3.4	-
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	1.3	-

[Signature]
Verified by

For Chennai Testing Laboratory Pvt Ltd

[Signature]
Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 1 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

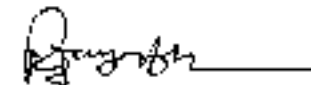
Test Report No & Date	CTL/CH/N-22655/2024-25 & 30.05.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221 E APHA 23rd Edn. 2017	MPN/100ml	17	-

Mag. - Maximum

*Limits as per TNPCB Norms for Treated Sewage

END OF REPORT


Verified by

For Chennai Testing Laboratory Pvt Ltd


Authorised Signatory

N. RAJENDRAKUMAR
Head - Quality & Microbiology Division (MICROBIOLOGY) Page 2 of 2

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date: CTL/CH/N-22656/2024-25 & 30.05.2024
 Sample Number: N-22656/24-25
 Name of the Customer: M/S. TAMIL RADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
 Address: Mondipath Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by: Laboratory
 Sample Name: Sewage Water
 Sample Description: Treated Sewage Water
 Sampling Location: Pulpmill & Finishing House Area
 Sample Drawn on: 22.05.2024
 Sample Received on: 24.05.2024
 Sampling Plan & Procedure: Grab Sample & CTL/QSP/09
 Sample Quantity: 2 Litres
 Sample Condition: Good & Received in Plastic Container
 Environmental Conditions: Temperature- 33.4°C and Humidity- 58.2%
 Equipment used for Sampling: NA
 Analysis Started on: 24.05.2024
 Analysis Completed on: 30.05.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	8.3	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	2	Max 30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	4	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA.2017)	mg/l	16	-
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	2.3	-
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	0.7	-

Verified by: 

For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 1 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

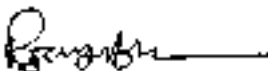
Test Report No & Date	CTL/CH/N-22656/2024-25 & 30.05.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology-					
7	Faecal Coliform	9221 EAPHA 33rd Edn. 2017	MPN/100ml	14	-

Max - Maximum.

*Limits as per TNPCB Norms for Treated Sewage

END OF REPORT


Verified by

For Chennai Testing Laboratory Pvt Ltd

 Authorised Signatory
N. RAJENDRAKUMAR
 Head - Quality & Microbiology Division
 (MICROBIOLOGY)

Page 2 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-22657/2024-25 & 30.05.2024
Sample Number N-22657/24-25
Name of the Customer M/S. TAMIL KADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Sewage Water
Sample Description Treated Sewage Water
Sampling Location Housing Colony Area
Sample Drawn on 22.05.2024
Sample Received on 24.05.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.4°C and Humidity- 58.2%
Equipment used for Sampling NA
Analysis Started on 24.05.2024
Analysis Completed on 30.05.2024

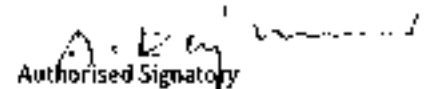
Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	8.1	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	< 2	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	< 2	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA.2017)	mg/l	6	-
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	1.1	-
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	0.2	-

Prepared by: 

For Chennai Testing Laboratory Pvt Ltd


 Authorised Signatory

A. RAJKUMAR
 Head - Water & Soil Division
 (CHEMICAL)

Page 1 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

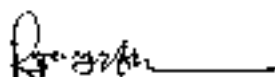
Test Report No & Date	CTL/CH/N-22657/2024-25 & 30.05.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221 E APHA 23rd Edn. 2017	MPN/100ml	11	-

Max - Maximum.

*Limits as per TNPCB Norms for Treated Sewage

*****END OF REPORT*****


 Verified by

For Chennai Testing Laboratory Pvt Ltd


 Authorised Signatory

N. RAJENDRAKUMAR
 Head - Quality & Microbiology Division
 (MICROBIOLOGY)

Page 2 of 2

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date: CTL/CH/N-24963/2024-25 & 06.07.2024
Sample Number: N-24963/24-25
Name of the Customer: M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address: Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by: Laboratory
Sample Name: Sewage Water
Sample Description: Treated Sewage Water
Sampling Location: Beard Machine Area
Sample Drawn on: 26.06.2024
Sample Received on: 27.06.2024
Sampling Plan & Procedure: Grab Sample & CTL/QSP/09
Sample Quantity: 2 Litres
Sample Condition: Good & Received in Plastic Container
Environmental Conditions: Temperature- 33.8°C and Humidity- 57.3%
Equipment used for Sampling: NA
Analysis Started on: 27.06.2024
Analysis Completed on: 05.07.2024

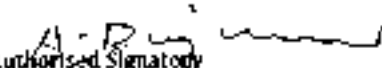
Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA-2017)	-	8.4	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17) -1984 (RA-2021)	mg/l	4	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA-2019)	mg/l	7	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA-2017)	mg/l	26	-
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA-2019)	mg/l	5.1	-
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA-2019)	mg/l	2.2	-

For Chennai Testing Laboratory Pvt Ltd

Verified by 


 Authorised Signatory
A. RAJKUMAR
 Head - Water & Soil Division
 (CHEMICAL)

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 The Report is meant only for the use of the addressee to preserve confidentiality.

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-24963/2024-25 & 06.07.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221 B APHA 23rd Edn. 2017	MPN/100ml	49	-

Max. - Maximum.

*Limits as per TNPCB Norms for Treated Sewage

END OF REPORT

C. S. S.
Verified by

For Chennai Testing Laboratory Pvt Ltd

N. Rajendrakumar
Authorized Signatory

N. RAJENDRAKUMAR
Head - Quality & Microbiology Division
(MICROBIOLOGY) Page 2 of 2

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Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com www.ctilabs.in

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-24964/2024-25 & 06.07.2024
Sample Number N-24964/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipai Village, K.Periyapattai Post, Manapparal Taluk,
 Trichy District - 621 306, Tamil Nadu

Sample Drawn by Laboratory
Sample Name Sewage Water
Sample Description Treated Sewage Water
Sampling Location Captive Power Plant Area
Sample Drawn on 26.06.2024
Sample Received on 27.06.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.6°C and Humidity- 57.3%
Equipment used for Sampling NA
Analysis Started on 27.06.2024
Analysis Completed on 05.07.2024

Test Results:

The above sample tested as received, and results are as follows:-

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA:2017)	-	8.4	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17) -1984 (RA:2021)	mg/l	13	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA:2019)	mg/l	10	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 56)-2006 (RA:2017)	mg/l	38	-
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA:2019)	mg/l	6.9	-
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA:2019)	mg/l	3.7	-

For Chennai Testing Laboratory Pvt Ltd

Verified by 


Authorized Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 1 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-24964/2024-25 & 06.07.2024
----------------------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221 E APHA 23rd Edn. 2017	MPN/100ml	70	-

Max. - Maximum

*Limits as per TNPCB Norms for Treated Sewage

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

(Signature)
Authorized Signatory

Verified by

N. RAJENDRAKUMAR
Head - Quality & Microbiology Division
(MICROBIOLOGY)

Page 2 of 2

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CIN : U63000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-24961/2024-25 & 06.07.2024
Sample Number N-24961/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Sewage Water
Sample Description Treated Sewage Water
Sampling Location Guest House Area
Sample Drawn on 26.06.2024
Sample Received on 27.06.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.8°C and Humidity- 57.3%
Equipment used for Sampling NA
Analysis Started on 27.06.2024
Analysis Completed on 05.07.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA 2017)	-	8.0	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17)-1984 (RA-2021)	mg/l	2	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)-1993 (RA.2019)	mg/l	3	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA-2017)	mg/l	12	-
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA 2019)	mg/l	1.6	-
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	1.2	-

For Chennai Testing Laboratory Pvt Ltd

Verified by 


 Authorised Signatory
A. RAJKUMAR
 Head - Water & Soil Division
 (CHEMICAL)

Page 1 of 2

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TEST REPORT

Test Report No & Date	CTL/CH/N-24961/2024-25 & 06.07.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221 E APHA 23rd Edn. 2017	NPN/100ml	46	-

Max. - Maximum.

*Limits as per INPCB Norms for Treated Sewage

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd



Authorized Signatory

Verified by



Page 2 of 2

N. RAJENDRAKUMAR
Head - Quality & Microbiology Division
(MICROBIOLOGY)

TEST REPORT

Test Report No & Date CTL/CH/M-24962/2024-25 & 06.07.2024
Sample Number N-24962/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipattil Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu

Sample Drawn by Laboratory
Sample Name Sewage Water
Sample Description Treated Sewage Water
Sampling Location Admin Block Area
Sample Drawn on 26.06.2024
Sample Received on 27.06.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.8°C and Humidity- 57.3%
Equipment used for Sampling NA
Analysis Started on 27.06.2024
Analysis Completed on 05.07.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	8.6	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	22	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	15	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA.2017)	mg/l	62	-
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	13.9	-
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	5.7	-

For Chennai Testing Laboratory Pvt Ltd


 Analyzed by


 Authorized Signatory

A. RAJKUMAR
 Head - Water & Soil Division
 (CHEMICAL)

Page 1 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/M-24962/2024-25 A 06.07.2024
-----------------------	-------------------------------------

S.NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221 E APHA 23rd Edn. 2017	MPN/100ml	79	-

Max. - Maximum.

*Limits as per TNPCB Norms for Treated Sewage

END OF REPORT

Verified by

(Signature)

For Chennai Testing Laboratory Pvt Ltd

(Signature)
Authorized Signatory

N. RAJENDRAKUMAR
Head - Quality & Microbiology Division Page 2 of 2
(MICROBIOLOGY)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-24965/2024-25 & 06.07.2024
Sample Number N-24965/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mundipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Sewage Water
Sample Description Treated Sewage Water
Sampling Location Pulpmill & Flushing House Area
Sample Drawn on 26.06.2024
Sample Received on 27.06.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.0°C and Humidity- 57.3%
Equipment used for Sampling NA
Analysis Started on 27.06.2024
Analysis Completed on 05.07.2024

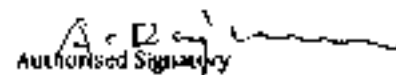
Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	8.7	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	3	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	5	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA.2017)	mg/l	18	-
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	3.9	-
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	1.7	-

For Chennai Testing Laboratory Pvt Ltd

Verified by 

Authorized Signatory 

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 1 of 2

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TEST REPORT

Test Report No & Date	CTL/CH/N-24965/2024-25 & 06.07.2024
----------------------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221 F APHA 23rd Edn. 2017	MPN/100ml	46	.

Max. - Maximum.

*Limits as per TNPCB Norms for Treated Sewage

*****END OF REPORT*****

For Chennai Testing Laboratory Pvt Ltd



Authorized Signatory

C.S.K
Verified by

N. RAJENDRAKUMAR
In-charge - Quality & Microbiology Division
(MICROBIOLOGY)

Page 2 of 2

TEST REPORT

Test Report No & Date CTL/CH/N-24960/2024-25 & 06.07.2024
Sample Number N-24960/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Penyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Sewage Water
Sample Description Treated Sewage Water
Sampling Location Housing Colony Area
Sample Drawn on 26.06.2024
Sample Received on 27.06.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.0°C and Humidity- 57.3%
Equipment used for Sampling NA
Analysis Started on 27.06.2024
Analysis Completed on 05.07.2024

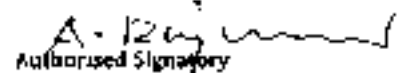
Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	8.5	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17)-1984 (RA.2021)	mg/l	3	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)-1993 (RA.2019)	mg/l	5	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA.2017)	mg/l	20	-
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	6.4	-
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	2.3	-

For Chennai Testing Laboratory Pvt Ltd


 Certified by


 Authorised Signatory

A. RAJKUMAR
 Head - Water & Soil Division
 (CHEMICAL)

Page 1 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-24960/2024-25 & 06.07.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221 E APHA 23rd Edn. 2017	MPN/100ml	94	-

Max. - Maximum.

*Limits as per TNPCB Norms for Treated Sewage

END OF REPORT

Verified by

For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory

N. RAJENDRAN
Head - Quality & Microbiology Division
(MICROBIOLOGY)

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TEST REPORT

Test Report No & Date	CTL/CH/N-26985/2024-25 & 07.08.2024
Sample Number	N-26985/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Peryapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu
Sample Drawn by	Laboratory
Sample Name	Sewage Water
Sample Description	Treated Sewage Water
Sampling Location	Board Machine Area
Sample Drawn on	31.07.2024
Sample Received on	01.08.2024
Sampling Plan & Procedure	Grab Sample & CTL/QSP/09
Sample Quantity	2 Litres
Sample Condition	Good & Received in Plastic Container
Environmental Conditions	Temperature- 31.2°C and Humidity- 56.1%
Equipment used for Sampling	NA
Analysis Started on	01.08.2024
Analysis Completed on	07.08.2024


Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	7.1	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17)-1984 (RA.2021)	mg/l	5	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)-1993 (RA.2019)	mg/l	B	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA.2017)	mg/l	38	-
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	7.6	-
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	3.1	-

For Chennai Testing Laboratory Pvt Ltd

Verified by 


Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 1 of 2



CIN : U93000TN2000PTC043889

TEST REPORT

Test Report No & Date	CTL/CH/N-26985/2024-25 & 07.08.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221 EAPHA 23 rd Edn. 2017	MPN/100ml	33	.

Max. - Maximum.

*Limits as per TNPCB Norms for Treated Sewage

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

[Signature]
Verified by

[Signature]
Authorized Signatory

R. JAYAVARTHANAN
Senior Microbiologist
(MICROBIOLOGY)

Page 2 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-26986/2024-25 & 07.08.2024
Sample Number	N-26986/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mundipatti Village, K.Periyapatti Post, Manapparai Taluk, Tiruchy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Sewage Water
Sample Description	Treated Sewage Water
Sampling Location	Captive Power Plant Area
Sample Drawn on	31.07.2024
Sample Received on	01.08.2024
Sampling Plan & Procedure	Grab Sample & CTL/QSP/09
Sample Quantity	2 Litres
Sample Condition	Good & Received in Plastic Container
Environmental Conditions	Temperature- 31.2°C and Humidity- 58.1%
Equipment used for Sampling	NA
Analysis Started on	01.08.2024
Analysis Completed on	07.08.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	8.9	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17)-1984 (RA.2021)	mg/l	6	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)-1993 (RA.2019)	mg/l	9	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 59)-2006 (RA.2017)	mg/l	10	.
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	6.2	.
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	2.7	.

For Chennai Testing Laboratory Pvt Ltd

Verified by: 


Authorized Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 1 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-26986/2024-25 & 07.08.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221 B APIHA 23 rd Edn 2017	MPN/100ml	46	-

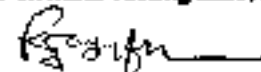
Max. - Maximum.

*Limits as per TNPCB Norms for Treated Sewage

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd


Verified by


Authorised Signatory
R. JAYAVARTHANAN
Senior Microbiologist
(MICROBIOLOGY)

Page 2 of 2

CIN : U83000TN2000PTC043869

TEST REPORT

Test Report No & Date: CTL/CH/N-26983/2024-25 & 07.08.2024
 Sample Number: N-26983/24-25
 Name of the Customer: M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
 Address: Mondipatti Village, K.Periyapatti Post, Manapparal Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by: Laboratory
 Sample Name: Sewage Water
 Sample Description: Treated Sewage Water
 Sampling Location: Guest House Area
 Sample Drawn on: 31.07.2024
 Sample Received on: 01.08.2024
 Sampling Plan & Procedure: Grab Sample & CTL/QSP/09
 Sample Quantity: 2 Litres
 Sample Condition: Good & Received in Plastic Container
 Environmental Conditions: Temperature- 31.2°C and Humidity- 50.1%
 Equipment used for Sampling: NA
 Analysis Started on: 01.08.2024
 Analysis Completed on: 07.08.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Parr 11)-1983 (RA.2017)	-	8.8	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17)-1984 (RA.2021)	mg/l	18	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)-1993 (RA.2019)	mg/l	11	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA.2017)	mg/l	38	-
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	4.6	-
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	2.1	-

For Chennai Testing Laboratory Pvt Ltd



A. Rajkumar
Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 1 of 2

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 The Report is valid only for the use of the addressee to estimate in their own labours.

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CIN - U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTI/CH/N-26983/2024-25 & 07.08.2024
-----------------------	-------------------------------------

S.NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221 E APHA 23 rd Edn. 2017	MPN/100ml	33	.

Max. - Maximum.

*Limits as per TNPCB Norms for Treated Sewage

END OF REPORT


Verified by

For Chennai Testing Laboratory Pvt Ltd


Authorized Signatory
R. JAYAVARTHANAN
Senior Microbiologist
(MICROBIOLOGY)

Page 2 of 2

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-26984/2024-25 & 07.08.2024
Sample Number	N-26984/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipattu Village, K.Periyapatti Post, Manapparal Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Sewage Water
Sample Description	Treated Sewage Water
Sampling Location	Admin Block Area
Sample Drawn on	31.07.2024
Sample Received on	01.08.2024
Sampling Plan & Procedure	Grab Sample & CTL/QSP/09
Sample Quantity	2 Litres
Sample Condition	Good & Received in Plastic Container
Environmental Conditions	Temperature- 31.2°C and Humidity- 58.1%
Equipment used for Sampling	NA
Analysis Started on	01.08.2024
Analysis Completed on	07.08.2024

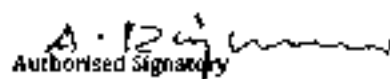
Test Results:

The above sample tested as received, and results are as follows.

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA 2017)	-	8.0	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17)-1984 (RA.2021)	mg/l	2	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)-1993 (RA.2019)	mg/l	4	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 5B)-2006 (RA.2017)	mg/l	15	-
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	2.3	-
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	0.9	-

For Chennai Testing Laboratory Pvt Ltd

Verified by 


Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 1 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-26984/2024-25 & 07.08.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	2221 B APHA 23 rd Edn. 2017	MPN/100ml	11	.

Max. - Maximum

*Limits as per TNPCB Norms for Treated Sewage

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

T. N. V. S.
Verified by

R. Jayavarthan
Authorised Signatory

R. JAYAVARTHANAN
Senior Microbiologist
(MICROBIOLOGY)

Page 2 of 2

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-26987/2024-25 & 07.08.2024
Sample Number	N-26987/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Moodipattu Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Sewage Water
Sample Description	Treated Sewage Water
Sampling Location	Pulpmill & Finishing House Area
Sample Drawn on	31.07.2024
Sample Received on	01.08.2024
Sampling Plan & Procedure	Grab Sample & CTL/QSP/09
Sample Quantity	2 Litres
Sample Condition	Good & Received in Plastic Container
Environmental Conditions	Temperature- 31.2°C and Humidity- 58.1%
Equipment used for Sampling	NA
Analysis Started on	01.08.2024
Analysis Completed on	07.08.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	8.6	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17)-1984 (RA.2021)	mg/l	9	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)-1993 (RA.2019)	mg/l	11	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58) 2006 (RA.2017)	mg/l	40	-
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	11.8	-
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	5.4	-

For Chennai Testing Laboratory Pvt Ltd

Verified by 


Authorised Signatory
A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-26987/2024-25 & 07.08.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221 E APHA 23 rd Edn. 2017	MPN/100ml	70	

Max. - Maximum

*Limits as per TNPCB Norms for Treated Sewage

END OF REPORT

Verified by

For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory
R. JAYAVARTHANAN
Senior Microbiologist
(MICROBIOLOGY)

Page 2 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date: **CTL/CH/N-26982/2024-25 & 07.08.2024**
 Sample Number: **N-26982/24-25**
 Name of the Customer: **M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,**
 Address: **Moidipatti Village, K.Periyapatti Post, Manapparal Taluk,
 Tiruchy District - 621 306, Tamil Nadu.**

Sample Drawn by: **Laboratory**
 Sample Name: **Sewage Water**
 Sample Description: **Treated Sewage Water**
 Sampling Location: **Housing Colony Area**
 Sample Drawn on: **31.07.2024**
 Sample Received on: **01.08.2024**
 Sampling Plan & Procedure: **Grab Sample & CTL/QSP/09**
 Sample Quantity: **2 Litres**
 Sample Condition: **Good & Received in Plastic Container**
 Environmental Conditions: **Temperature- 31.2°C and Humidity- 50.1%**
 Equipment used for Sampling: **NA**
 Analysis Started on: **01.08.2024**
 Analysis Completed on: **07.08.2024**

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	8.3	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	4	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	3	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA.2017)	mg/l	14	-
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	2.4	-
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	0.5	-

For Chennai Testing Laboratory Pvt Ltd



A. Rajkumar
Authorized Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 1 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-26982/2024-25 & 07.08.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221 B APHA 23 rd Edn. 2017	MPN/100ml	23	.

Max. - Maximum.

*Limits as per TNPCD Norms for Treated Sewage

*****END OF REPORT*****

For Chennai Testing Laboratory Pvt Ltd


Verified by


Authorized Signatory
R. JAYAVARTHANAN
Senior Microbiologist
(MICROBIOLOGY)

Page 2 of 2

CIN U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-28121/2024-25 & 02.09.2024
Sample Number N-28121/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Moudipatti Village, K.Periyapatti Post, Manappuram Taluk,
 Trichy District - 621 306, Tamil Nadu

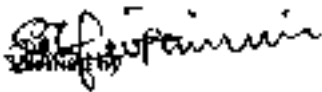
Sample Drawn by Laboratory
Sample Name Sewage Water
Sample Description Treated Sewage Water
Sampling Location Board Machine Area
Sample Drawn on 23.08.2024
Sample Received on 24.08.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature - 33.1°C and Humidity - 57.2%
Equipment used for Sampling NA
Analysis Started on 24.08.2024
Analysis Completed on 02.09.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA 2017)	-	8.1	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17) -1984 (RA-2021)	mg/l	11	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)-1993 (RA.2019)	mg/l	9	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA-2017)	mg/l	38	-
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA 2019)	mg/l	8.7	-
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	3.4	-

For Chennai Testing Laboratory Pvt Ltd



A. Rajkumar
 Authorized Signatory

A. RAJKUMAR
 Head - Water & Soil Division
 (CHEMICAL)

Page 1 of 2

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TEST REPORT

Test Report No & Date	CTL/CH/N-28121/2024-25 & 02.09.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221 E APHA 23 rd Edn. 2017	MPN/100ml	23	

Max. - Maximum

*Limits as per TNPCB Norms for Treated Sewage

END OF REPORT

CSE
Verified by

For Chennai Testing Laboratory Pvt Ltd

[Signature]
Authorised Signatory

H. JAYARAJAN
Senior Microbiologist
(MICROBIOLOGY)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date: CTL/CH/N-28122/2024-25 & 02.09.2024
 Sample Number: N-28122/24-25
 Name of the Customer: M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
 Address: Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

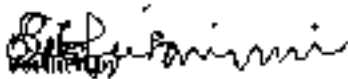
Sample Drawn by: Laboratory
 Sample Name: Sewage Water
 Sample Description: Treated Sewage Water
 Sampling Location: Captive Power Plant Area
 Sample Drawn on: 23.08.2024
 Sample Received on: 24.08.2024
 Sampling Plan & Procedure: Grab Sample & CTL/QSP/09
 Sample Quantity: 2 Litres
 Sample Condition: Good & Received in Plastic Container
 Environmental Conditions: Temperature- 33.1°C and Humidity- 57.2%
 Equipment used for Sampling: NA
 Analysis Started on: 24.08.2024
 Analysis Completed on: 02.09.2024

Test Results:

The above sample tested as received, and results are as follows

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	8.1	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	7	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	6	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA.2017)	mg/l	22	-
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	3.5	-
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	1.6	-

For Chennai Testing Laboratory Pvt Ltd



Authorized Signatory
A. RAJKUMAR
 Head - Water & Soil Division
 (CHEMICAL)

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TEST REPORT

Test Report No & Date	CTL/CH/N-28122/2024-25 & 02.09.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221 E APHA 23 rd Edn. 2017	MPN/100ml	46	-

Max. - Maximum.

*Limits as per TNPLD Norms for Treated Sewage

END OF REPORT

C. G. J.
Verified by

For Chennai Testing Laboratory Pvt Ltd

 Authorized Signatory

R. JAYAVARTHANAN
 Senior Microbiologist
 (MICROBIOLOGY)

Page 2 of 2

CIN - U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-28123/2024-25 & 02.09.2024
Sample Number N-20123/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT (I),
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

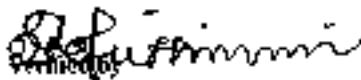
Sample Drawn by Laboratory
Sample Name Sewage Water
Sample Description Treated Sewage Water
Sampling Location Guest House Area
Sample Drawn on 23.08.2024
Sample Received on 24.08.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.1°C and Humidity- 57.2%
Equipment used for Sampling NA
Analysis Started on 24.08.2024
Analysis Completed on 02.09.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	7.9	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	4	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	6	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58) 2006 (RA.2017)	mg/l	23	
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	3.3	
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34) -1988 (RA.2019)	mg/l	1.5	

For Chennai Testing Laboratory Pvt Ltd



Authorised Signatory
A. RAJKUMAR
 Head - Water & Soil Division
 (CHEMICAL)

Page 1 of 2

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CIN : U93000TN2000PTC043889

TEST REPORT

Test Report No & Date	CTL/CN/N-28123/2024-25 & 02.09.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Fecal Coliform	9221 E APHA 23 rd Edn. 2017	MPN/100ml	33	

Max. - Maximum.

*Limits as per INPCB Norms for Treated Sewage

END OF REPORT

C. Sk

Verified by

For Chennai Testing Laboratory Pvt Ltd

R. Jayavarthan
Authorised Signatory

R. JAYAVARTHANAN
Senior Microbiologist
(MICROBIOLOGY)

Page 2 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTI./CH/N-28124/2024-25 & 02.09.2024
Sample Number N-28124/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mundipati Village, K.Penyapati Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

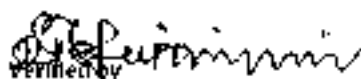
Sample Drawn by Laboratory
Sample Name Sewage Water
Sample Description Treated Sewage Water
Sampling Location Admin Block Area
Sample Drawn on 23.08.2024
Sample Received on 24.08.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.1°C and Humidity- 57.2%
Equipment used for Sampling NA
Analysis Started on 24.08.2024
Analysis Completed on 02.09.2024


Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	8.1	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17)-1984 (RA.2021)	mg/l	9	Max 30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)-1993 (RA.2019)	mg/l	8	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA.2017)	mg/l	36	-
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	6.4	-
6	Ammonical Nitrogen as NH ₄ -N	IS.3025 (Part 34)-1988 (RA.2019)	mg/l	2.7	-

For Chennai Testing Laboratory Pvt Ltd

verified by 


 Authorized Signatory
A. RAJKUMAR
 Head - Water & Soil Division
 (CHEMICAL) Page 1 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-28124/2024-25 & 03.09.2024
-----------------------	-------------------------------------

S.NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	4221 B APHA 23 rd Edn. 2017	MPN/100ml	23	

Max. - Maximum.

*Limits as per TNPCB Norms for Treated Sewage

*****END OF REPORT*****

For Chennai Testing Laboratory Pvt Ltd


Authorized Signatory

R. JAYAVARTHANAM
Senior Microbiologist
(MICROBIOLOGY)

Page 2 of 2

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TEST REPORT

Test Report No & Date: CTL/CH/N-28125/2024-25 & 02.09.2024
 Sample Number: N-28125/24-25
 Name of the Customer: M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
 Address: Mendipatti Village, K.Peryapatti Post, Manapparai Taluk,
 Tiruchy District - 621 306, Tamil Nadu.

Sample Drawn by: Laboratory
 Sample Name: Sewage Water
 Sample Description: Treated Sewage Water
 Sampling Location: Pulpmill & Finishing House Area
 Sample Drawn on: 23.08.2024
 Sample Received on: 24.08.2024
 Sampling Plan & Procedure: Grab Sample & CTL/QSP/09
 Sample Quantity: 2 Litres
 Sample Condition: Good & Received in Plastic Container
 Environmental Conditions: Temperature- 33.1°C and Humidity- 57.2%
 Equipment used for Sampling: NA
 Analysis Started on: 24.08.2024
 Analysis Completed on: 02.09.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	7.8	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17)-1984 (RA.2021)	mg/l	3	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)-1993 (RA.2019)	mg/l	4	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA.2017)	mg/l	18	-
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	3.7	-
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	1.2	-

[Signature]
Verified by

For Chennai Testing Laboratory Pvt Ltd

[Signature]
Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-2R125/2024-25 & 02.09.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221 E APHA 23 rd Edn. 2017	MPN/100ml	49	

Max. - Maximum

*Limits as per TMPCO Norms for Treated Sewage

END OF REPORT


Verified by

For Chennai Testing Laboratory Pvt Ltd


Authorised Signatory

R. JAYAVARTHEANAN
Senior Microbiologist
(MICROBIOLOGY)

Page 2 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-28126/2024-25 & 02.09.2024
Sample Number N-28126/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondiyattu Village, K.Peniyapattu Post, Mahappara Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Sewage Water
Sample Description Treated Sewage Water
Sampling Location Housing Colony Area
Sample Drawn on 23.08.2024
Sample Received on 24.08.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.1°C and Humidity- 57.2%
Equipment used for Sampling NA
Analysis Started on 24.08.2024
Analysis Completed on 02.09.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	7.8	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17)-1984 (RA.2021)	mg/l	5	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)-1993 (RA.2019)	mg/l	6	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA.2017)	mg/l	22	-
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	4.2	-
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	1.9	-

[Signature]

For Chennai Testing Laboratory Pvt Ltd

[Signature]
 Authorised Signatory

A. RAJKUMAR
 Head - Water & Soil Division
 (CHEMICAL)

Page 1 of 2

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TEST REPORT

Test Report No & Date	CTL/CH/N-28126/2024-25 & 02.09.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221 E.APHA 23 rd Edn 2017	MPN/100ml	70	

Max - Maximum

*Limits as per TNPCB Norms for Treated Sewage

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

C.S.K.
Verified by

R. Jayavarthan
Authorised Signatory
R. JAYAVARTHANAN
Senior Microbiologist
(MICROBIOLOGY)

Page 2 of 2



CIN : U93000TN2000PTC038860

TEST REPORT

Test Report No & Date: CTL/CH/N-29799/2024-25 & 04.10.2024
 Sample Number: N-29799/24-25
 Name of the Customer: M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
 Address: Mondipatti Village, K.Penyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by: Laboratory
 Sample Name: Sewage Water
 Sample Description: Treated Sewage Water
 Sampling Location: Board Machine Area
 Sample Drawn on: 21.09.2024
 Sample Received on: 22.09.2024
 Sampling Plan & Procedure: Grab Sample & CTL/QSP/09
 Sample Quantity: 2 Litres
 Sample Condition: Good & Received in Plastic Container
 Environmental Conditions: Temperature- 33.1°C and Humidity- 57.2%
 Equipment used for Sampling: NA
 Analysis Started on: 23.09.2024
 Analysis Completed on: 04.10.2024

Test Results:
 The above sample tested as received, and results are as follows:
 DISCIPLINE : CHEMICAL & BIOLOGICAL
 GROUP : POLLUTION AND ENVIRONMENT

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	4500 H+ B- APHA 24th Edn	-	7.6	5.5 to 9.0
2	Total Suspended Solids (TSS)	2540 D- APHA 24th Edn	mg/l	8	Max.30
3	Biochemical Oxygen Demand (BOD) 5 days at 27°C	IS 3025 (Part 44)	mg/l	7	Max.20
4	Chemical Oxygen Demand (COD)	5220 B- APHA 24th Edn	mg/l	26	-
5	Total Nitrogen as N	4500 - N - APHA 24th Edn	mg/l	6.8	-
6	Ammonical Nitrogen as NH ₄ -N	4500 NH3 B, C - APHA 24th Edn	mg/l	2.9	-

[Signature]
 Verified by

For Chennai Testing Laboratory Pvt Ltd

[Signature]
 Authorised Signatory
A. RAJKUMAR
 Head - Water & Soil Division
 (CHEMICAL)

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CIN : U93000TN2000PTC043869

14314

TEST REPORT

Test Report No & Date	CTL/CH/N-29799/2024-25 & 04.10.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221-E- APHA 24 th Ed	MPN/100ml	33	-

Min. - Maximum

*Limits as per TNPCB Norms for Treated Sewage

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd


Authorized Signatory

Verified by

R. JAYAVARTHANAN
Senior Microbiologist
(MICROBIOLOGY)

Page 2 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-29800/2024-25 & 04.10.2024
Sample Number N-29800/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II.
Address Mandipatti Village, K Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Sewage Water
Sample Description Treated Sewage Water
Sampling Location Captive Power Plant Area
Sample Drawn on 21.09.2024
Sample Received on 22.09.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.1°C and Humidity- 57.2%
Equipment used for Sampling NA
Analysis Started on 23.09.2024
Analysis Completed on 04.10.2024

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL & BIOLOGICAL

GROUP : POLLUTION AND ENVIRONMENT

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	4500 H+ B- APHA 24th Edn	-	7.6	5.5 to 9.0
2	Total Suspended Solids (TSS)	2540 D- APHA 24th Edn	mg/l	10	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)	mg/l	8	Max.20
4	Chemical Oxygen Demand (COD)	5220 B- APHA 24th Edn	mg/l	28	-
5	Total Nitrogen as N	4500 - N - APHA 24th Edn	mg/l	6.4	-
6	Ammonical Nitrogen as NH ₄ -N	4500 NH3 B, C - APHA 24th Edn	mg/l	2.7	-

For Chennai Testing Laboratory Pvt Ltd

[Signature]
Verified by

[Signature]
Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

TEST REPORT

Test Report No & Date	CTL/CH/N-29800/2024-25 & 04.10.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221-E-APHA 24 th Ed	MPN/100ml	79	.

Max. - Maximum

*Limits as per TNPSC Norms for Treated Sewage

END OF REPORT

Verified by

For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory

R. JAYAVARTHANAN
Senior Microbiologist
(MICROBIOLOGY)

Page 2 of 2

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-29801/2024-25 & 04.10.2024
Sample Number N-29801/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparal Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Sewage Water
Sample Description Treated Sewage Water
Sampling Location Guest House Area
Sample Drawn on 21.09.2024
Sample Received on 22.09.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.1°C and Humidity- 57.2%
Equipment used for Sampling NA
Analysis Started on 23.09.2024
Analysis Completed on 04.10.2024

Test Results:

The above sample tested as received, and results are as follows.

DISCIPLINE : CHEMICAL & BIOLOGICAL

GROUP : POLLUTION AND ENVIRONMENT

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	4500 H+ B- APHA 24th Edn	-	7.5	5.5 to 9.0
2	Total Suspended Solids (TSS)	2540 D- APHA 24th Edn	mg/l	8	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)	mg/l	5	Max.20
4	Chemical Oxygen Demand (COD)	5220 B- APHA 24th Edn	mg/l	18	-
5	Total Nitrogen as N	4500 N - APHA 24th Edn	mg/l	4.2	-
6	Ammonical Nitrogen as NH ₄ -N	4500 NH3 B, C - APHA 24th Edn	mg/l	1.9	-

For Chennai Testing Laboratory Pvt Ltd

[Signature]
 Verified by

[Signature]
 Authorised Signatory

A. RAJKUMAR
 Head - Water & Soil Division
 (CHEMICAL)

Page 1 of 2

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TEST REPORT

Test Report No & Date	CTL/CH/N-29801/2024-25 & 04.10.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	922 I-P- APHA 24 th Ed	MPN/100ml	40	-

Max - Maximum

*Limits as per TNPCB Norms for Treated Sewage

END OF REPORT

Verified by
[Signature]

For Chennai Testing Laboratory Pvt Ltd

[Signature]
Authorised Signatory

R. JAYAGRTHAMAN
Senior Microbiologist
(MICROBIOLOGY)

Page 2 of 2

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-29802/2024-25 & 04.10.2024
Sample Number N-29802/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Sewage Water
Sample Description Treated Sewage Water
Sampling Location Admin Block Area
Sample Drawn on 21.09.2024
Sample Received on 22.09.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.1°C and Humidity- 57.2%
Equipment used for Sampling NA
Analysis Started on 23.09.2024
Analysis Completed on 04.10.2024

Test Results:

The above sample tested as received, and results are as follows

DISCIPLINE : CHEMICAL & BIOLOGICAL

GROUP : POLLUTION AND ENVIRONMENT

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	4500 H+ B- APHA 24th Edn	-	7.7	5.5 to 9.0
2	Total Suspended Solids (TSS)	2540 D- APHA 24th Edn	mg/l	12	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 4)	mg/l	10	Max.20
4	Chemical Oxygen Demand (COD)	5220 B- APHA 24th Edn	mg/l	38	-
5	Total Nitrogen as N	4500 - N - APHA 24th Edn	mg/l	8.2	-
6	Ammonical Nitrogen as NH ₄ -N	4500 NH3 B, C - APHA 24th Edn	mg/l	3.9	-

For Chennai Testing Laboratory Pvt Ltd

[Signature]
Verified by

[Signature]
Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMISTRY)

Page 1 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CN/N-29802/2024-25 & 04.10.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221-E- APHA 24 th Ed	MPN/100ml	23	-

Max - Maximum.

*Limits as per TNPCB Norms for Treated Sewage

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory

R. JAYAVARTHANAN
Senior Microbiologist
(MICROBIOLOGY)

Page 2 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-29804/2024-25 & 04.10.2024
Sample Number N-29804/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Sewage Water
Sample Description Treated Sewage Water
Sampling Location Pulpmill & Finishing House Area
Sample Drawn on 21.09.2024
Sample Received on 22.09.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.1°C and Humidity- 57.2%
Equipment used for Sampling NA
Analysis Started on 23.09.2024
Analysis Completed on 04.10.2024

Test Results:

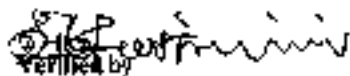
The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL & BIOLOGICAL

GROUP : POLLUTION AND ENVIRONMENT

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	4500 H+ B- APHA 24th Edn	-	7.5	5.5 to 9.0
2	Total Suspended Solids (TSS)	2540 D- APHA 24th Edn	mg/l	7	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	15 3025 (Part 44)	mg/l	6	Max.20
4	Chemical Oxygen Demand (COD)	S220 B- APHA 24th Edn	mg/l	22	-
5	Total Nitrogen as N	4500 - N - APHA 24th Edn	mg/l	4.1	-
6	Ammonical Nitrogen as NH ₄ -N	4500 NH3 B, C - APHA 24th Edn	mg/l	1.8	-

For Chennai Testing Laboratory Pvt Ltd

Verified by 

Authorized Signatory

A. RASJUNAR
 Head - Water & Wastewater Division
 (CHEMICAL) Page 1 of 2

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TEST REPORT

Test Report No & Date	CTL/CH/N-29804/2024-25 & 04.10.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliform	9221-E- APHA 24 th Ed	MPN/100ml	70	-

Max. - Maximum

* Limits as per TNPCB Norms for Treated Sewage

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

C.S.K.
Verified by

R. Jayaverthanan
Authorized Signatory
R. JAYAVERTHANAN
Senior Microbiologist
(MICROBIOLOGY)

Page 2 of 2

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-29803/2024-25 & 04.10.2024
Sample Number N-29803/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparal Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Sewage Water
Sample Description Treated Sewage Water
Sampling Location Housing Colony Area
Sample Drawn on 21.09.2024
Sample Received on 22.09.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 33.1°C and Humidity- 57.2%
Equipment used for Sampling NA
Analysis Started on 23.09.2024
Analysis Completed on 04.10.2024

Test Results:

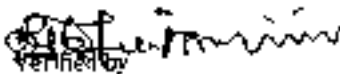
The above sample tested as received, and results are as follows.

DISCIPLINE : CHEMICAL & BIOLOGICAL

GROUP : POLLUTION AND ENVIRONMENT

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	4500 H+ B- APHA 24th Edn	-	7.6	5.5 to 9.0
2	Total Suspended Solids (TSS)	2540 D- APHA 24th Edn	mg/l	10	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	15 3025 (Part 44)	mg/l	8	Max.20
4	Chemical Oxygen Demand (COD)	5220 B- APHA 24th Edn	mg/l	26	-
5	Total Nitrogen as N	4500 - N - APHA 24th Edn	mg/l	5.1	-
6	Ammonical Nitrogen as NH ₄ -N	4500 NH ₃ B, C - APHA 24th Edn	mg/l	2.3	-

For Chennai Testing Laboratory Pvt Ltd

Verified by 

Authorised Signatory 

A. RAJKUMAR
 Head - Water & Soil Division
 (CHEMICAL)

Page 1 of 2

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TEST REPORT

Test Report No & Date	CTL/CH/N-29003/2024-25 & 04.10.2024
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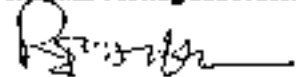
S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
7	Faecal Coliforms	9221-E-APHA 24 th Ed	MPN/100ml	46	

Max. - Maximum

*Limits as per TNPCB Norms for Treated Sewage

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd



Authorised Signatory
R. JAYARAMAN
 Senior Microbiologist
 (MICROBIOLOGY)

Page 2 of 2

Storm Water Drain and Collection Pit



Storm Water Drain and Collection Pit



Tyre Washing Facility at Entrance Gate , TNPL,UNIT-II



Alkali Pit in the Pulpmill area

Plant is having alkali pit where all black liquor is collected at one place and pumped back to reject tank and from there it is taken to digester blow tank so there is no spillage in the plant. For bleaching we are having chlorine di oxide plant and it is used so our plant adopted with elemental free chlorine plant.



A handwritten signature in black ink, appearing to be 'E. P. S.', is written above the typed name.

GENERAL MANAGER
R&D AND QC
TAMILNADU NEWSPRINT AND PAPERS LIMITED
(BOARD DIVISION)
MONDIPATTI, KPERIYAPATTI (PO),
MANAPPARAI (TK), TRICHY (DT)-621306.

Brief Description on Foul Condensate Handling in TNPL Unit - 2

Foul condensate generated from Multiple Effect Evaporator (MEE) is concentrated in stripping column and pumped to methanol column to separate methanol and CNCG.

CNCG is fired in lime kiln. Methanol sent to storage tank and then pumped for firing in lime kiln. Hence foul condensate is not discharged to ETP.



Multiple Effect Evaporator



Stripping Column

Rain Water Harvesting Pit - UNIT - II

S.No	Location of Buildings	Qty Nos	Roof Area (Sq.M)
1	Packing materials storage godown	5	800
2	WPP Godown	17	4000
3	Wet lap godown	33	6000
4	WTP	3	200
5	Workshop	22	1800
6	Stores	22	1800
7	Boiler MCC	4	425
8	T.G Building	6	1285
9	Finishing house	14	4000
10	Board Machine #4	52	6660
11	VAM MCC	2	135
12	Compressor House	10	360
13	ESP MCC	3	215
14	Works office	5	550
15	Security office	7	125
16	"C" Godown	12	2000
17	Cement godown	12	450
Total		229	30805



TNPL Unit - II Water Flow Meters installed at WPP, Board Machine



TEST REPORT

Test Report No & Date CTL/CH/N-21518A/2024-25 & 03.05.2024
Sample Number N-21518A/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Noise
Sample Description AMBIENT NOISE
Sampling Location Factory Canteen Building
Sample Drawn on 25.04.2024 to 26.04.2024
Sampling Plan & Procedure CTL/QSP/P-89 & IS 9989
Equipment used for Sampling Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	24.04.2024	10.30	58.2	56.3	75.0
2		11.30	57.6		
3		12.30	61.0		
4		13.30	54.8		
5		14.30	56.1		
6		15.30	52.0		
7		16.30	53.6		
8		17.30	54.0		
9		18.30	58.5		
10		19.30	55.0		
11		20.30	53.6		
12		21.30	52.2		
13	25.04.2024	6.30	54.2	56.3	75.0
14		7.30	58.0		
15		8.30	59.6		
16		9.30	62.5		
NIGHT TIME					
17	24.04.2024	22.30	48.0	46.0	70.0
18		23.30	46.2		
19	25.04.2024	0.30	44.5		
20		1.30	45.2		
21		2.30	44.8		
22		3.30	43.8		
23		4.30	45.7		
24		5.30	49.5		

Day Time (06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III, Ambient air quality standards (respective of Noise (Day & Night Time))

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

Verified by

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Authorized Signatory

M. KANIKANDAN
 Chennai Testing Laboratory Pvt Ltd
 (CHEMICAL)

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu, India

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com

TEST REPORT

Test Report No & Date	CTL/CH/N-21518B/2024-25 & 03.05.2024
Sample Number	N-21518B/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipattu Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Noise
Sample Description	AMBIENT NOISE
Sampling Location	Near North West Compound Wall
Sample Drawn on	25.04.2024 to 26.04.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 9989
Equipment used for Sampling	Sound level Meter S Nu:554062

Test Results

The above sample tested as received, and results are as follows:

SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	24.04.2024	10.30	62.0	62.7	75.0
2		11.30	64.2		
3		12.30	66.0		
4		13.30	62.1		
5		14.30	63.2		
6		15.30	60.5		
7		16.30	57.7		
8		17.30	61.0		
9		18.30	63.4		
10		19.30	66.2		
11		20.30	65.9		
12		21.30	66.4		
13	25.04.2024	6.30	57.5	62.7	75.0
14		7.30	62.0		
15		8.30	60.4		
16		9.30	64.2		
NIGHT TIME					
17	24.04.2024	22.30	56.0	54.6	70.0
18	23.30	57.0			
19	0.30	59.2			
20	1.30	55.0			
21	2.30	52.0			
22	3.30	51.0			
23	4.30	53.2			
24	5.30	52.7			

Day Time:(06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III, Ambient air quality standards irrespective of Noise (Day & Night Time)

END OF REPORT

[Signature]
Authorized Signatory

For Chennai Testing Laboratory Pvt Ltd

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The Report is valid only for the use of the equipment to which it refers.

[Signature]
Authorized Signatory
M. NIKANDAN
CHENNAI TESTING LABORATORY
(CHEMICAL)

TEST REPORT

Test Report No & Date CTL/CH/N-21518E/2024-25 & 03.05.2024
Sample Number N-21518E/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondpatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Noise
Sample Description AMBIENT NOISE
Sampling Location 110 KVA Sub station(Right Side 10m Away)
Sample Drawn on 25.04.2024 to 26.04.2024
Sampling Plan & Procedure CTL/QSP/F-09 & IS 9969
Equipment used for Sampling Sound Level Meter S Nuc554062

Test Results:

The above sample tested as received, and results are as follows:

SLNO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limite Leq dB(A)
DAY TIME					
1	24.04.2024	10.30	55.3	57.9	75.0
2		11.30	58.2		
3		12.30	59.8		
4		13.30	62.3		
5		14.30	57.0		
6		15.30	60.0		
7		16.30	61.0		
8		17.30	62.5		
9		18.30	61.2		
10		19.30	57.0		
11	25.04.2024	20.30	56.0	57.9	75.0
12		21.30	54.5		
13		6.30	51.0		
14		7.30	54.0		
15		8.30	56.6		
16		9.30	58.5		
NIGHT TIME					
17	24.04.2024	22.30	51.0	47.1	70.0
18	23.30	50.2			
19	0.30	47.0			
20	1.30	45.6			
21	2.30	46.2			
22	3.30	44.0			
23	25.04.2024	4.30	45.8	47.1	70.0
24		5.30	46.6		

Day Time:(06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCD Limits as per Schedule III Ambient air quality standards(respective of Noise (Day & Night Time))

END OF REPORT

[Signature]
 Authorised Signatory

For Chennai Testing Laboratory Pvt Ltd

The Report shall be valid for initial, defence and for any other purpose.
 The Report is meant only for the use of the addressee to promote his/her own business.
 M. MANIKANDAN
 (CHEMICAL)
 Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com

TEST REPORT

Test Report No & Date CTL/CH/N-21518F/2024-25 & 03.05.2024
Sample Number N-21518F/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Penyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Noise
Sample Description AMBIENT NOISE
Sampling Location Southern Boundary
Sample Drawn on 25.04.2024 to 26.04.2024
Sampling Plan & Procedure CTL/QSP/P-00 & IS 9900
Equipment used for Sampling Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows

SLNO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	24.04.2024	10.30	53.2	51.8	75.0
2		11.30	55.2		
3		12.30	54.9		
4		13.30	56.3		
5		14.30	57.1		
6		15.30	52.6		
7		16.30	51.4		
8		17.30	52.7		
9		18.30	50.2		
10		19.30	51.6		
11		20.30	52.5		
12		21.30	40.5		
13	25.04.2024	4.30	45.6	42.1	70.0
14		7.30	46.2		
15		8.30	40.3		
16		9.30	52.9		
NIGHT TIME					
17	24.04.2024	22.30	44.0	42.1	70.0
18	25.04.2024	23.30	42.0		
19		0.30	40.6		
20		1.30	41.0		
21		2.30	40.2		
22		3.30	41.5		
23		4.30	42.6		
24		5.30	44.5		

Day Time: (06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III, Ambient air quality standards in respective of Noise (Day & Night Time)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

Verified by 

Authorized Signatory 

This Report shall not be used to inform, defend and for any matters, and the Report is meant only for safe use of the addressee to pursue his/her own business.

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu, India. 

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com

TEST REPORT

Test Report No & Date: CTL/CH/N-21518C/2024-25 & 03.05.2024
 Sample Number: N-21518C/24-25
 Name of the Customer: M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
 Address: Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by: Laboratory
 Sample Name: Noise
 Sample Description: AMBIENT NOISE
 Sampling Location: Back side of Workshop(Near Compound wall)
 Sample Drawn on: 25.04.2024 to 26.04.2024
 Sampling Plan & Procedure: CTL/QSP/F-09 & IS 9909
 Equipment used for Sampling: Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	24.04.2024	10.30	52.0	53.2	75.0
2		11.30	51.0		
3		12.30	53.2		
4		13.30	54.0		
5		14.30	52.0		
6		15.30	50.5		
7		16.30	51.6		
8		17.30	53.5		
9		18.30	55.0		
10		19.30	54.2		
11		20.30	57.0		
12		21.30	54.6		
13	25.04.2024	6.30	50.0	47.9	70.0
14		7.30	52.0		
15		8.30	53.5		
16		9.30	56.5		
NIGHT TIME					
17	24.04.2024	22.30	51.0	47.9	70.0
18	23.30	50.5			
19	25.04.2024	0.30	49.2	47.9	70.0
20		1.30	47.5		
21		2.30	46.6		
22		3.30	44.0		
23		4.30	46.2		
24		5.30	48.4		

Day Time:(06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III, Ambient air quality standards irrespective of Noise (Day & Night Time)

***END OF REPORT**



For Chennai Testing Laboratory Pvt Ltd

The Report shall not be used to make any claim and for any intention outside the Report is meant only for the use of the addressee to procure the services of the laboratory.
 Authorized Signatory
M. MANIKANDAN
 (CHEMICAL)

A - Super 19, T.V.K Industrial Estate, Guindy, Chennai - 600 092, Tamil Nadu, India

Phone : +91-44-2250 1757 | E-mail : chennaitesting@chennaitestinglab.com

TEST REPORT

Test Report No & Date	CTL/CH/N-21518G/2024-25 & 03.05.2024
Sample Number	N-21518G/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II.
Address	Mondipatti Village K.Periyapatti Post, Manapparai Taluk, Tiruchy District - 621 306 Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Noise
Sample Description	AMBIENT NOISE
Sampling Location	Thiru.Kandasamy House,Pongudipatti(8m Road Junction, Outside of Compound Wall)
Sample Drawn on	25.04.2024 to 26.04.2024
Sampling Plan & Procedure	CTL/QSP/P-09 & IS 9989
Equipment used for Sampling	Sound level Meter S No:554062

Test Results

The above sample tested as received, and results are as follows:

SLNO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)				
			Leq	Average Leq	* Limits Leq dB(A)		
DAY TIME							
1	24.04.2024	10.30	48.5	45.9	75.0		
2		11.30	49.3				
3		12.30	47.8				
4		13.30	49.5				
5		14.30	50.1				
6		15.30	45.0				
7		16.30	46.6				
8		17.30	44.0				
9		18.30	45.2				
10		19.30	41.0				
11		20.30	42.1				
12		21.30	40.8				
13	25.04.2024	6.30	44.0	36.6	70.0		
14		7.30	45.6				
15		8.30	47.0				
16		9.30	48.5				
NIGHT TIME							
17	24.04.2024	22.30	40.1			36.6	70.0
18		23.30	37.0				
19	25.04.2024	0.30	35.2				
20		1.30	36.2				
21		2.30	34.5				
22		3.30	35.7				
23		4.30	36.2				
24		5.30	38.1				

Day Time:(06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 05.00 Hrs)

* TNPCB Limits as per Schedule III ,Ambient air quality standards irrespective of Noise (Day & Night Time)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

[Signature]
Authorised Signatory

[Signature]
Environment Division
(CHEMICAL)

The Report shall not be used to exempt, defend and/or make decisions except
The Report is valid only for the use of the addressee to promote betterment business

CIN : U93000TN2000PTC043669

TEST REPORT

Test Report No & Date CTL/CH/N-22666/2024-25 & 30.05.2024
Sample Number N-22666/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu

Sample Drawn by Laboratory
Sample Name Noise
Sample Description AMBIENT NOISE LEVEL MONITORING
Sampling Location Guest House
Sample Drawn on 21.05.2024 to 22.05.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 9969
Equipment used for Sampling Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	21.05.2024	10.00	45.3	45.7	75.0
2		11.00	46.1		
3		12.00	44.0		
4		13.00	49.3		
5		14.00	50.6		
6		15.00	47.3		
7		16.00	45.8		
8		17.00	44.6		
9		18.00	43.8		
10		19.00	46.4		
11		20.00	42.3		
12		21.00	41.5		
13	22.05.2024	6.00	45.0	37.6	70.0
14		7.00	46.3		
15		8.00	44.8		
16		9.00	47.3		
NIGHT TIME					
17	21.05.2024	22.00	44.6	37.6	70.0
18		23.00	40.8		
19	22.05.2024	0.00	37.0		
20		1.00	35.2		
21		2.00	34.6		
22		3.00	35.2		
23		4.00	36.0		
24		5.00	37.5		

Day Time:(06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III, Ambient air quality standards irrespective of Noise (Day & Night Time)

END OF REPORT

Verified by 

For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory 

This report shall not be used to design, define and justify technical specifications. The Project is meant only for reference and the address is provided for general information only.

S. MANIKANDAN
Head - Environment Division
Chennai - India

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-22667/2024-25 & 30.05.2024
Sample Number N-22667/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT IIE
Address Mondipatti Village, K Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Noise
Sample Description AMBIENT NOISE LEVEL MONITORING
Sampling Location Factory Canteen Building
Sample Drawn on 21.05.2024 to 22.05.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 9989
Equipment used for Sampling Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows.

SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	21.05.2024	10.00	58.7	54.7	75.0
2		11.00	57.7		
3		12.00	56.1		
4		13.00	54.8		
5		14.00	52.1		
6		15.00	50.5		
7		16.00	51.6		
8		17.00	53.8		
9		18.00	55.4		
10		19.00	58.1		
11		20.00	50.0		
12		21.00	48.1		
13	22.05.2024	6.00	54.1	54.1	70.0
14		7.00	56.8		
15		8.00	57.4		
16		9.00	60.0		
NIGHT TIME					
17	21.05.2024	22.00	48.1	45.1	70.0
18		23.00	46.3		
19	22.05.2024	0.00	40.8		
20		1.00	41.6		
21		2.00	43.7		
22		3.00	45.8		
23		4.00	46.0		
24		5.00	48.5		

Day Time:(06.00 Hrs to 22.00 Hrs), Night time (22.00 hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III, Ambient air quality standards Irrespective of Noise (Day & Night Time)

END OF REPORT

Verified by 

For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory
G. MANIKANDAN
 Head, Environment Division
 (CHEMICAL)

The Report shall not be used to verify, confirm and approve any quality parameters.
 The Report is valid only for the use of the laboratory to whom it is issued.

Page 1 of 1

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

Phone : +91-44 2250 1757 | E-mail : chennaiesting@chennaiestinglab.com www.cllabs.in

CIN : U83000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-22668/2024-25 & 30.05.2024
Sample Number N-22668/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mandipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Noise
Sample Description AMBIENT NOISE LEVEL MONITORING
Sampling Location Near North West Compound Wall
Sample Drawn on 21.05.2024 to 22.05.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 9989
Equipment used for Sampling Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	21.05.2024	10.00	63.8	63.1	75.0
2		11.00	66.4		
3		12.00	62.7		
4		13.00	60.9		
5		14.00	58.4		
6		15.00	63.5		
7		16.00	62.7		
8		17.00	60.4		
9		18.00	66.8		
10		19.00	61.4		
11		20.00	57.5		
12		21.00	58.3		
13	22.05.2024	6.00	65.8	63.1	75.0
14		7.00	64.7		
15		8.00	67.3		
16		9.00	68.4		
NIGHT TIME					
17	21.05.2024	22.00	55.9	55.2	70.0
18		23.00	53.8		
19	22.05.2024	0.00	56.4		
20		1.00	52.0		
21		2.00	51.0		
22		3.00	55.0		
23		4.00	58.0		
24		5.00	59.4		

Day Time:(06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III, Ambient air quality standards irrespective of Noise (Day & Night Time)

END OF REPORT

Verified by

For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory

G. MANIKANDAN
 Head - Environment Division
 Chennai - India

The Report shall not be used in design, defence and for any contractual purposes
 The Report is valid only for the use of the addressee to whom it has been issued

A - Super 19, I.V.K. Industrial Estate, Gundy, Chennai - 600 032 (Chennai) - India

Phone : +91-44-2250 1757 | E-mail : chennaitestlab@chennaitestlab.com www.cillabs.in

CIN : U93000TN2000PTC043369

TEST REPORT

Test Report No & Date	CTL/CH/N-22671/2024-25 & 30.05.2024
Sample Number	N-22671/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K Periyapatti Post, Mahappara: Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Noise
Sample Description	AMBIENT NOISE LEVEL MONITORING
Sampling Location	110 KVA Sub station(Right Side 10m Away)
Sample Drawn on	21.05.2024 to 22.05.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 9989
Equipment used for Sampling	Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	21.05.2024	10.00	63.8	60.4	75.0
2		11.00	65.1		
3		12.00	67.3		
4		13.00	64.8		
5		14.00	62.1		
6		15.00	64.1		
7		16.00	59.8		
8		17.00	57.4		
9		18.00	56.4		
10		19.00	54.9		
11		20.00	53.4		
12		21.00	50.8		
13	22.05.2024	6.00	57.8	60.4	75.0
14		7.00	61.4		
15		8.00	60.8		
16		9.00	65.9		
NIGHT TIME					
17	21.05.2024	22.00	52.2	51.1	70.0
18		23.00	54.8		
19	22.05.2024	0.00	50.1		
20		1.00	48.6		
21		2.00	49.0		
22		3.00	50.5		
23		4.00	49.6		
24		5.00	54.7		

Day Time:(06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III, Ambient air quality standards irrespective of Noise (Day & Night Time)

*** END OF REPORT ***

For Chennai Testing Laboratory Pvt Ltd

Verified by

Authorized Signatory
G. MANIKANDAN
Head, Environment Division
(CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-22672/2024-25 & 30.05.2024
Sample Number N-22672/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II.
Address Mondipatti Village, K.Periyapatti Post. Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Noise
Sample Description AMBIENT NOISE LEVEL MONITORING
Sampling Location Southern Boundary
Sample Drawn on 21.05.2024 to 22.05.2024
Sampling Plan & Procedure CTL/QSP/P-89 & IS 9889
Equipment used for Sampling Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	21.05.2024	10.00	55.4	54.1	75.0
2		11.00	56.4		
3		12.00	57.4		
4		13.00	53.0		
5		14.00	55.8		
6		15.00	59.4		
7		16.00	54.6		
8		17.00	58.3		
9		18.00	53.5		
10		19.00	50.8		
11		20.00	52.1		
12		21.00	49.8		
13	22.05.2024	6.00	48.5	43.8	70.0
14		7.00	51.0		
15		8.00	53.8		
16		9.00	55.6		
NIGHT TIME					
17	21.05.2024	22.00	49.4	43.8	70.0
18	23.00	46.0			
19	22.05.2024	0.00	45.6		
20		1.00	42.6		
21		2.00	43.0		
22		3.00	40.5		
23		4.00	41.0		
24		5.00	42.6		

Day Time:(06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TMCPL Limits as per Schedule III, Ambient air quality standards in respect of Noise (Day & Night Time)

END OF REPORT

Verified by 

For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory
G. MANIKANDAN
 Head, Environment Division
 (CHEMICAL)

The Report shall not be used to malign, or fame and for any malicious purpose. The Report is given only for the use of the addressee to whom it is addressed.

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 052, Tamil Nadu - India

CIN : U93000TN2000PT0043869

TEST REPORT

Test Report No & Date CTL/CH/N-22670/2024-25 & 30.05.2024
Sample Number N-22670/24-25
Name of the Customer M/S. TAMIL RADU NEWSPRINT AND PAPERS LIMITED - UNIT II.
Address Mondipatti Village, K.Periyapattu Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Noise
Sample Description AMBIENT NOISE LEVEL MONITORING
Sampling Location West Entrance Gate (Right side 50m away from the Gate, 10m from Compound wall)
Sample Drawn on 21.05.2024 to 22.05.2024
Sampling Plan & Procedure CTL/QSP/F-09 & IS 9889
Equipment used for Sampling Sound level Meter S No:5540b2

Test Results:

The above sample tested as received, and results are as follows:

SLNO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	21.05.2024	10.00	58.4	58.4	75.0
2		11.00	57.4		
3		12.00	58.4		
4		13.00	60.3		
5		14.00	62.6		
6		15.00	61.4		
7		16.00	58.6		
8		17.00	62.1		
9		18.00	57.4		
10		19.00	55.8		
11		20.00	53.8		
12		21.00	51.4		
13	22.05.2024	6.00	57.1	48.8	70.0
14		7.00	59.4		
15		8.00	61.2		
16		9.00	58.5		
NIGHT TIME					
17	21.05.2024	22.00	50.8	48.8	70.0
18		23.00	52.6		
19	22.05.2024	0.00	48.0		
20		1.00	49.5		
21		2.00	45.0		
22		3.00	46.8		
23		4.00	47.0		
24		5.00	50.6		

Day Time: (06.00 Hrs to 22.00 Hrs), Night Time (22.00 Hrs to 06.00 Hrs)

* TNPGB Limits as per Schedule III, Ambient air quality standards: iirre 59.4

END OF REPORT

Verified by 

For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory

G. MANIKANDAN
 Head, Environment Division
 (CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-22669/2024-25 & 30.05.2024
Sample Number N-22669/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu

Sample Drawn by Laboratory
Sample Name Noise
Sample Description AMBIENT NOISE LEVEL MONITORING
Sampling Location Back side of Workshop(Near Compound wall)
Sample Drawn on 21.05.2024 to 22.05.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 9989
Equipment used for Sampling Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)				
			Leq	Average Leq	* Limits Leq dB(A)		
DAY TIME							
1	21.05.2024	10.00	51.4	53.1	75.0		
2		11.00	50.0				
3		12.00	53.6				
4		13.00	55.2				
5		14.00	57.9				
6		15.00	54.3				
7		16.00	54.0				
8		17.00	51.9				
9		18.00	52.2				
10		19.00	50.1				
11		20.00	48.3				
12		21.00	47.5				
13	22.05.2024	6.00	55.4	46.3	70.0		
14		7.00	56.8				
15		8.00	52.9				
16		9.00	57.4				
NIGHT TIME							
17	21.05.2024	22.00	46.8			46.3	70.0
18		23.00	42.7				
19	22.05.2024	0.00	41.9				
20		1.00	44.8				
21		2.00	46.3				
22		3.00	47.0				
23		4.00	49.2				
24		5.00	51.9				

Day Time: (06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 hrs)

* TNPCB Limits as per Schedule III, Ambient air quality standards irrespective of Noise (Day & Night Time)

END OF REPORT

Verified by 

For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory
G. MANIKANDAN
 Head Environment Division
 (CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-22673/2024-25 & 30.05.2024
Sample Number	N-22673/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Noise
Sample Description	AMBIENT NOISE LEVEL MONITORING
Sampling Location	Thiru.Kandasamy House, Pongudipatti(8m Road Junction, Outside of Compound Wall)
Sample Drawn on	21.05.2024 to 22.05.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 9989
Equipment used for Sampling	Sound level Meter S No.554062

Test Results:

The above sample tested as received, and results are as follows.

SLNO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	21.05.2024	10.00	47.2	41.9	75.0
2		11.00	45.6		
3		12.00	46.0		
4		13.00	42.0		
5		14.00	44.0		
6		15.00	43.5		
7		16.00	41.8		
8		17.00	42.9		
9		18.00	40.5		
10		19.00	39.0		
11	22.05.2024	20.00	37.5	35.3	70.0
12		21.00	36.8		
13		6.00	38.0		
14		7.00	40.0		
15		8.00	41.5		
16		9.00	43.6		
NIGHT TIME					
17	21.05.2024	22.00	35.2	35.3	70.0
18	23.00	34.0			
19	22.05.2024	0.00	34.5	35.3	70.0
20		1.00	35.0		
21		2.00	34.2		
22		3.00	35.1		
23		4.00	36.6		
24		5.00	37.8		

Day Time(06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCR Limits as per Schedule III, Ambient air quality standards Irrespective of Noise (Day & Night Time)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

Verified by

Authorised Signatory
G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 1 of 1

The report should not be used to malign, discredit or for any purposes other than the purpose for which it is issued unless approved in writing by the business.

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com www.ctllabs.in

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-24946/2024-25 & 03.07.2024
Sample Number	N-24946/24-25
Name of the Customer	M/S. TAMILNADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mandipatti Village, K.Periyapatti Post, Manapparai Taluk, Tiruchy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Noise
Sample Description	AMBIENT NOISE LEVEL MONITORING
Sampling Location	Guest House
Sample Drawn on	24.06.2024 to 25.06.2024
Sampling Plan & Procedure	CTL/QSP/E-89 & IS-9989
Equipment used for Sampling	Sound level Meter 5 No:554062

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limit Leq dB(A)
DAY TIME					
1	24.06.2024	11.00	46.6	44.1	75.0
2		12.00	45.7		
3		13.00	44.9		
4		14.00	47.2		
5		15.00	45.5		
6		16.00	46.7		
7		17.00	43.6		
8		18.00	42.8		
9		19.00	41.9		
10		20.00	42.3		
11		21.00	40.4		
12	25.06.2024	6.00	39.8	37.5	70.0
13		7.00	42.3		
14		8.00	45.5		
15		9.00	46.3		
16		10.00	44.8		
NIGHT TIME					
17	24.06.2024	22.00	41.8	37.5	70.0
18		23.00	39.6		
19	25.06.2024	0.00	38.7		
20		1.00	36.5		
21		2.00	35.4		
22		3.00	34.2		
23		4.00	35.8		
24		5.00	37.9		

Day Time: (06.00 Hrs to 22.00 Hrs). Night Time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III Ambient air quality standards irrespective of Noise (Day & Night Time)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

Verified by 

This Report shall not be used to malign, defame and defray interests. The Report is meant only for the use of the customer to whom it is issued.

Authorized Signatory
MANIKANDAN
Head, Environmental Division
CHENNAI

Page 1 of 2

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

Phone : +91-44-2250 1757 | E mail : chennai@testinglab.com www.ctllabs.in

CIN : U93000TN2000PTC043B69

TEST REPORT

Test Report No & Date: CTL/CH/N-24946A/2024-25 & 03.07.2024
 Sample Number: N-24946A/24-25
 Name of the Customer: M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
 Address: Mondipatti Village, K Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by: Laboratory
 Sample Name: Noise
 Sample Description: AMBIENT NOISE LEVEL MONITORING
 Sampling Location: Factory Canteen Building
 Sample Drawn on: 24.06.2024 to 25.06.2024
 Sampling Plan & Procedure: CTL/QSP/F-89 & IS 9989
 Equipment used for Sampling: Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	24.06.2024	11.00	58.6	55.3	75.0
2		12.00	57.7		
3		13.00	59.2		
4		14.00	60.0		
5		15.00	68.6		
6		16.00	59.2		
7		17.00	57.3		
8		18.00	56.6		
9		19.00	55.5		
10		20.00	58.9		
11		21.00	59.2		
12	25.06.2024	6.00	39.7	47.7	70.0
13		7.00	43.6		
14		8.00	49.7		
15		9.00	53.8		
16		10.00	56.7		
NIGHT TIME					
17	24.06.2024	22.00	57.7	47.7	70.0
18		23.00	56.2		
19	25.06.2024	0.00	52.7		
20		1.00	46.3		
21		2.00	44.9		
22		3.00	42.6		
23		4.00	40.7		
24		5.00	38.2		

Day Time: (06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III, Ambient air quality standards irrespective of Noise (Day & Night Time)

END OF REPORT

Verified by:

For Chennai Testing Laboratory Pvt Ltd

The Report shall not be used as a legal document for any matters unless it is signed by the authorized signatory of the laboratory.

G. MANIKANDAN
 Head, Environmental
 (CHEMICAL)

Page 1 of 1

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu, India

Phone : +91-44-2250 1757 | E-mail : chennaitesting@chennaitestinglab.com www.ctllabs.in

CIN : U93090TN2000PTC043889

TEST REPORT

Test Report No & Date: CTL/CTI/N-24946B/2024-25 & 03.07.2024
 Sample Number: N-24946B/24-25
 Name of the Customer: M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT 1A
 Address: Mondipatti Village, K.Poniyapatti Post, Manapparal Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by: Laboratory
 Sample Name: Noise
 Sample Description: AMBIENT NOISE LEVEL MONITORING
 Sampling Location: Near North West Compound Wall
 Sample Drawn on: 24.06.2024 to 25.06.2024
 Sampling Plan & Procedure: CTI/QSP/P-89 & IS 9989
 Equipment used for Sampling: Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	24.06.2024	11.00	68.9	62.8	75.0
2		12.00	67.3		
3		13.00	65.4		
4		14.00	66.5		
5		15.00	62.0		
6		16.00	63.1		
7		17.00	62.2		
8		18.00	60.3		
9		19.00	58.4		
10		20.00	57.2		
11	21.00	56.3	62.8	75.0	
12	25.06.2024	6.00			58.7
13		7.00			61.1
14		8.00			63.2
15		9.00			65.8
16		10.00			67.2
NIGHT TIME					
17	24.06.2024	22.00	54.9	54.1	70.0
18	25.06.2024	23.00	53.4		
19		0.00	52.8		
20		1.00	50.6		
21		2.00	52.7		
22		3.00	54.4		
23		4.00	56.7		
24	5.00	57.3			

Day Time: (06.00 Hrs to 22.00 Hrs), Night Time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III Ambient air quality standards irrespective of Noise (Day & Night Time)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

Verified by: 

The Report shall not be used to dispute, defend and/or for any other purpose other than the purpose for which it is issued. If the value is to be used for any other purpose, the user shall be responsible for the same.

Authorized Signatory

G. MANIKANDAN

Head, Environmental Testing, Chennai, India

Page 1 of 1

CN - U93000TN2000PTC043869

TEST REPORT

Test Report No & Date: CTL/CH/N-24946E/2024-25 & 03.07.2024
 Sample Number: N-24946E/24-25
 Name of the Customer: M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
 Address: Mondipatu Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by: Laboratory
 Sample Name: Noise
 Sample Description: AMBIENT NOISE LEVEL MONITORING
 Sampling Location: 110 KVA Sub station (Right Side 10m Away)
 Sample Drawn on: 24.06.2024 to 25.06.2024
 Sampling Plan & Procedure: CTL/QSP/F-89 & IS 9989
 Equipment used for Sampling: Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	24.06.2024	11.00	63.4	57.0	75.0
2		12.00	62.5		
3		13.00	59.6		
4		14.00	58.5		
5		15.00	60.4		
6		16.00	61.2		
7		17.00	59.6		
8		18.00	60.4		
9		19.00	55.1		
10		20.00	52.6		
11		21.00	50.4		
12	25.06.2024	6.00	49.8	44.6	70.0
13		7.00	51.4		
14		8.00	53.6		
15		9.00	55.6		
16		10.00	58.4		
NIGHT TIME					
17	24.06.2024	22.00	49.8	44.6	70.0
18	23.00	47.2			
19	0.00	46.6			
20	1.00	44.4			
21	25.06.2024	2.00	43.2		
22		3.00	42.4		
23		4.00	48.8		
24		5.00	43.7		


Day Time: (06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III, Ambient air quality standards irrespective of Noise (Day & Night Time)

END OF REPORT

Verified by: 

For Chennai Testing Laboratory Pvt Ltd


S. MANIKANDAN
 Head, Environment Division

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 082 (Tamil Nadu) - India

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com www.ctllabs.in

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date: CTL/CH/N-24946F/2024-25 & 03.07.2024
 Sample Number: N-24946F/24-25
 Name of the Customer: M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
 Address: Mondipatti Village, K.Penyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by: Laboratory
 Sample Name: Noise
 Sample Description: AMBIENT NOISE LEVEL MONITORING
 Sampling Location: Southern Boundary
 Sample Drawn on: 24.06.2024 to 25.06.2024
 Sampling Plan & Procedure: CTL/QSP/F-09 & IS 9989
 Equipment used for Sampling: Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows:-

SLNO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	24.06.2024	11.00	57.8	51.9	75.0
2		12.00	56.2		
3		13.00	55.6		
4		14.00	54.9		
5		15.00	52.2		
6		16.00	50.7		
7		17.00	53.6		
8		18.00	49.4		
9		19.00	47.3		
10		20.00	45.5		
11	25.06.2024	21.00	44.9	43.2	70.0
12		6.00	46.1		
13		7.00	49.7		
14		8.00	53.7		
15		9.00	56.6		
16		10.00	58.1		
NIGHT TIME					
17	24.06.2024	22.00	43.6	43.2	70.0
18	23.00	41.3			
19	0.00	40.8			
20	1.00	39.6			
21	2.00	42.7			
22	3.00	43.5			
23	4.00	45.7			
24	5.00	47.6			

Day Time (06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III, Ambient air quality standards irrespective of Noise (Day & Night Time)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

 Verified by: 

This Report shall not be valid if machine, etc. are not as per description.

 Head - Environment Division
 (CHEMICAL)

Page 1 of 1

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com www.ctlabs.in

CIN : U93000TN2000PTC043889

TEST REPORT

Test Report No & Date	CTL/CH/N-24946D/2024-25 & 03.07.2024
Sample Number	N-24946D/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Moodipatti Village, K. Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Noise
Sample Description	AMBIENT NOISE LEVEL MONITORING
Sampling Location	West Entrance Gate (Right side 50m away From the Gate, 10m from Compound wall)
Sample Drawn on	24.06.2024 to 25.06.2024
Sampling Plan & Procedure	CTL/QSP/F-09 & IS 9909
Equipment used for Sampling	Sound level Meter S No: S54062

Test Results:

The above sample tested as received, and results are as follows:

SLNO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)				
			Leq	Average Leq	* Limits Leq dB(A)		
DAY TIME							
1	24.06.2024	11.00	60.5	56.6	75.0		
2		12.00	58.4				
3		13.00	59.6				
4		14.00	57.4				
5		15.00	56.2				
6		16.00	60.1				
7		17.00	58.2				
8		18.00	56.2				
9		19.00	54.1				
10		20.00	53.7				
11		21.00	50.9				
12	25.06.2024	6.00	49.4	47.0	70.0		
13		7.00	53.5				
14		8.00	57.8				
15		9.00	59.3				
16		10.00	60.6				
NIGHT TIME							
17	24.06.2024	22.00	49.2			47.0	70.0
18	23.00	48.8					
19	0.00	47.2					
20	1.00	45.2					
21	2.00	44.4					
22	3.00	45.9					
23	4.00	48.0					
24	5.00	48.3					

Day Time (06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCR Limits as per Schedule III, Ambient air quality standards (area 59.4

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

Verified by

The report shall not be used to expose, defend and for any other purpose.
The report is valid only for the use of the customer to whom it is issued.

Authorized Signatory

G. MANIKANDAN

CHENNAI TESTING LABORATORY PRIVATE LIMITED
(CHEMICAL)

Page 1 of 1

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CIN : U93000TN2000PTC043669

TEST REPORT

Test Report No & Date	CTL/CI/N-24946C/2024-25 & 03.07.2024
Sample Number	N-24946C/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Perryapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Noise
Sample Description	AMBIENT NOISE LEVEL MONITORING
Sampling Location	Back side of Workshop(Near Compound wall)
Sample Drawn on	24.06.2024 to 25.06.2024
Sampling Plan & Procedure	CTL/QSP/F-09 & IS 9909
Equipment used for Sampling	Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows:

SLNO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)				
			Leq	Average Leq	* Limits Leq dB(A)		
DAY TIME							
1	24.06.2024	11.00	52.6	48.5	75.0		
2		12.00	51.7				
3		13.00	50.8				
4		14.00	51.1				
5		15.00	49.7				
6		16.00	40.0				
7		17.00	47.2				
8		18.00	46.6				
9		19.00	45.2				
10		20.00	44.1				
11		21.00	43.2				
12	25.06.2024	6.00	44.9	39.7	70.0		
13		7.00	45.9				
14		8.00	40.2				
15		9.00	52.1				
16		10.00	53.4				
NIGHT TIME							
17	24.06.2024	22.00	42.2			39.7	70.0
18	23.00	40.5					
19	25.06.2024	0.00	39.5				
20		1.00	38.3				
21		2.00	37.9				
22		3.00	38.8				
23		4.00	39.4				
24		5.00	41.3				

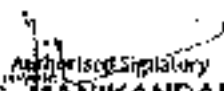
Day Time (06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNYPCB Limits as per Schedule III, Ambient air quality standards irrespective of Noise (Day & Night Time)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

Verified by 

Head of Regulatory

G. MANIKANDAN
 Head of Regulatory Division
 (CHEMICAL)

A - Super 19, T.V.K. Industrial Estate, Gulindy, Chennai - 600 092, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennaiteming@chennaitestinglab.com www.ctllabs.in

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-24946G/2024-25 & 03.07.2024
Sample Number	N-24946G/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyapatti Post, Manappuram Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Noise
Sample Description	AMBIENT NOISE LEVEL MONITORING
Sampling Location	Thiru.Kandasamy House, Pongudipatti (6m Road Junction, Outside of Compound Wall)
Sample Drawn on	24.06.2024 to 25.06.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 9989
Equipment used for Sampling	Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	24.06.2024	11.00	48.8	44.0	75.0
2		12.00	47.2		
3		13.00	46.6		
4		14.00	45.5		
5		15.00	44.9		
6		16.00	43.8		
7		17.00	42.2		
8		18.00	41.9		
9		19.00	40.5		
10		20.00	39.6		
11	21.00	38.1			
12	25.06.2024	6.00	41.3		
13		7.00	44.8		
14		8.00	46.4		
15		9.00	47.2		
16		10.00	45.9		
NIGHT TIME					
17	24.06.2024	22.00	37.7	36.3	70.0
18		23.00	36.9		
19	25.06.2024	0.00	35.5		
20		1.00	34.3		
21		2.00	33.8		
22		3.00	35.2		
23		4.00	37.4		
24		5.00	39.5		

Day Time: (06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III, Ambient air quality standards (respective of noise (Day & Night Time))

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd


Verified by

Authorized Signatory

G. MANIKANDAN
Head, Environment Division
(CHEMICAL)

Page 1 of 1

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com www.cllabs.in

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-26968/2024-25 & 07.08.2024
Sample Number	N-26968/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, KPeriyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Noise
Sample Description	AMBIENT NOISE LEVEL MONITORING
Sampling Location	Guest House
Sample Drawn on	29.07.2024 to 30.07.2024
Sampling Plan & Procedure	CTL/QSP/F-09 & IS 9909
Equipment used for Sampling	Sound Level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	29-07-2024	9.30	44.8	43.6	75.0
2		10.30	47.1		
3		11.30	46.3		
4		12.30	45.8		
5		13.30	42.9		
6		14.30	40.8		
7		15.30	44.4		
8		16.30	45.2		
9		17.30	42.9		
10		18.30	41.4		
11		19.30	40.2		
12		20.30	39.6		
13		21.30	39.5		
14		30-07-2024	6.30		
15	7.30		46.5		
16	8.30		48.3		
NIGHT TIME					
17	29-07-2024	22.30	36.1	38.1	70.0
18		23.30	39.2		
19	30-07-2024	0.30	37.6		
20		1.30	36.8		
21		2.30	37.0		
22		3.30	38.4		
23		4.30	39.5		
24		5.30	40.2		

Day Time (06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB limits as per Schedule III, Ambient air quality standards for respective of Noise (Day & Night Time)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

Verified by 

Authorized Signatory
G. MANKANDAN
Head - Environment Division
Chennai Testing Laboratory
Chennai - India



CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-26969/2024-25 & 07.08.2024
Sample Number N-26969/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Penyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Noise
Sample Description AMBIENT NOISE LEVEL MONITORING
Sampling Location Factory Canteen Building
Sample Drawn on 29.07.2024 to 30.07.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 9989
Equipment used for Sampling Sound level Meter S No-554062

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	29.07.2024	9.30	61.4	58.1	75.0
2		10.30	57.3		
3		11.30	59.8		
4		12.30	56.8		
5		13.30	60.5		
6		14.30	62.4		
7		15.30	59.4		
8		16.30	57.5		
9		17.30	54.8		
10		18.30	56.9		
11		19.30	52.9		
12		20.30	50.9		
13		21.30	53.4		
14	30.07.2024	6.30	63.5	53.5	70.0
15		7.30	59.8		
16		8.30	62.4		
NIGHT TIME					
17	29.07.2024	22.30	51.5	53.5	70.0
18		23.30	52.7		
19	30.07.2024	0.30	50.1		
20		1.30	49.8		
21		2.30	52.1		
22		3.30	54.6		
23		4.30	56.2		
24		5.30	60.8		

Day Time: (06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III Ambient air quality standards irrespective of Noise (Day & Night Time)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd


 Verified by

Authorised Signatory
MANIKAVISAN
 Head - Environment Division
 Chennai - India

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CIN : U93000TN2000P7C043869

TEST REPORT

Test Report No & Date	CTL/CH/N-26970/2024-25 & 07.08.2024
Sample Number	N-26970/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Peniyapatti Post, Manapparal Taluk, Trichy District - 621 306, Tamil Nadu
Sample Drawn by	Laboratory
Sample Name	Noise
Sample Description	AMBIENT NOISE LEVEL MONITORING
Sampling Location	Near North West Compound Wall
Sample Drawn on	29.07.2024 to 30.07.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 9989
Equipment used for Sampling	Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows:

SLNO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	29.07.2024	9.30	70.1	66.0	75.0
2		10.30	68.6		
3		11.30	66.9		
4		12.30	69.4		
5		13.30	65.8		
6		14.30	67.2		
7		15.30	64.8		
8		16.30	68.0		
9		17.30	65.9		
10		18.30	66.4		
11		19.30	62.4		
12		20.30	60.3		
13		21.30	57.4		
14	30.07.2024	6.30	67.1	66.0	75.0
15		7.30	69.4		
16		8.30	66.2		
NIGHT TIME					
17	29.07.2024	22.30	58.1	58.8	70.0
18		23.30	55.3		
19	30.07.2024	0.30	57.0		
20		1.30	58.1		
21		2.30	56.3		
22		3.30	59.4		
23		4.30	62.4		
24		5.30	64.0		

Day Time (06.00 Hrs to 22.00 Hrs). Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB limits as per Schedule III, Ambient air quality standards irrespective of Noise (Day & Night Time)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

Verified by 

This Report should not be used to malign, defame and for any malicious purpose.
The Report is valid only for the use of the addressee as per the scope of the Report.

Authorized Signatory

BANIKANDAN

Head, Environment Division

(CHENNAI)

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 024, Tamil Nadu - India

C.N : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-26973/2024-25 & 07.08.2024
Sample Number	N-26973/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Noise
Sample Description	AMBIENT NOISE LEVEL MONITORING
Sampling Location	110 KVA Sub station(Right Side 10m Away)
Sample Drawn on	29.07.2024 to 30.07.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 9989
Equipment used for Sampling	Sound level Meter S No:SS4062

Test Results:

The above sample tested as received, and results are as follows:

SLNO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	29.07.2024	9.30	66.2	61.4	75.0
2		10.30	65.9		
3		11.30	67.3		
4		12.30	64.8		
5		13.30	61.9		
6		14.30	60.8		
7		15.30	62.1		
8		16.30	58.6		
9		17.30	57.6		
10		18.30	56.8		
11		19.30	55.9		
12		20.30	57.1		
13		21.30	55.4		
14	30.07.2024	6.30	60.3		
15		7.30	64.1		
16		8.30	67.5		
NIGHT TIME					
17	29.07.2024	22.30	54.8	53.1	70.0
18		23.30	53.9		
19	30.07.2024	0.30	50.5		
20		1.30	50.8		
21		2.30	49.6		
22		3.30	52.3		
23		4.30	55.4		
24		5.30	57.2		

Day Time: (06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III, Ambient air quality standards irrespective of Noise (Day & Night Time)

*****END OF REPORT*****

For Chennai Testing Laboratory Pvt Ltd

Verified by

The Report shall not be used in any manner, definite and/or implied without the consent of the Laboratory. The Report is meant only for the use of the addressee to whom it is addressed.

Authorized Signatory

G. SIVANIKANDAN

Head - Environmental Division
(CHEMICAL)



CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-26974/2024-25 & 07.08.2024
Sample Number	N-26974/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Noise
Sample Description	AMBIENT NOISE LEVEL MONITORING
Sampling Location	Southern Boundary
Sample Drawn on	29.07.2024 to 30.07.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 9989
Equipment used for Sampling	Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	29.07.2024	9.30	55.2	50.5	75.0
2		10.30	53.8		
3		11.30	54.7		
4		12.30	56.3		
5		13.30	52.1		
6		14.30	50.8		
7		15.30	49.8		
8		16.30	48.1		
9		17.30	47.3		
10		18.30	45.6		
11		19.30	49.2		
12		20.30	47.2		
13		21.30	45.0		
14	30.07.2024	6.30	48.9	44.9	70.0
15		7.30	50.2		
16		8.30	53.2		
NIGHT TIME					
17	29.07.2024	22.30	44.3	44.9	70.0
18		23.30	42.7		
19	30.07.2024	0.30	45.2		
20		1.30	46.3		
21		2.30	42.9		
22		3.30	44.3		
23		4.30	45.8		
24		5.30	47.3		

Day Time:(06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III Ambient air quality standards irrespective of Noise (Day & Night Time)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

Verified by

G. MANIKANDAN
Head - Environment Division,
Chennai

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-26972/2024-25 & 07.08.2024
Sample Number	N-26972/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondiparu Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Noise
Sample Description	AMBIENT NOISE LEVEL MONITORING
Sampling Location	West Entrance Gate(Right side 50m away From the Gate.10m from Compound wall)
Sample Drawn on	29.07.2024 to 30.07.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 9989
Equipment used for Sampling	Sound Level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows:

SLNO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	29.07.2024	9.30	62.4	56.8	75.0
2		10.30	63.5		
3		11.30	59.4		
4		12.30	57.2		
5		13.30	60.3		
6		14.30	62.5		
7		15.30	54.8		
8		16.30	56.3		
9		17.30	52.9		
10		18.30	50.8		
11		19.30	53.5		
12		20.30	50.7		
13		21.30	51.4		
14	30.07.2024	6.30	57.1	50.5	70.0
15		7.30	56.9		
16		8.30	59.3		
NIGHT TIME					
17	29.07.2024	22.30	49.9	50.5	70.0
18	29.07.2024	23.30	52.2		
19		0.30	47.6		
20	30.07.2024	1.30	46.5		
21		2.30	48.3		
22		3.30	51.4		
23		4.30	53.5		
24		5.30	55.8		

Day Time (06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III Ambient air quality standards i.e 59.4

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

Verified by

Authorized Signatory

The Report shall not be used to make defence and for any litigation purpose.
The Report is meant only for sole use of the addressee to produce necessary documents.

G. HANIKANDAN

602 036, Tamil Nadu, India

(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-26971/2024-25 & 07.08.2024
Sample Number	N-26971/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Noise
Sample Description	AMBIENT NOISE LEVEL MONITORING
Sampling Location	Back side of Workshop(Near Compound wall)
Sample Drawn on	29.07.2024 to 30.07.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 9989
Equipment used for Sampling	Sound level Meter S No:SS4062

Test Results:

The above sample tested as received, and results are as follows:

SLNO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	29.07.2024	9.30	53.4	49.6	75.0
2		10.30	51.0		
3		11.30	50.5		
4		12.30	52.3		
5		13.30	50.1		
6		14.30	48.6		
7		15.30	49.2		
8		16.30	51.3		
9		17.30	48.6		
10		18.30	47.2		
11		19.30	49.0		
12		20.30	50.5		
13		21.30	46.8		
14	30.07.2024	6.30	45.8	41.5	70.0
15		7.30	47.5		
16		8.30	51.4		
NIGHT TIME					
17	29.07.2024	22.30	42.3	41.5	70.0
18	23.30	45.0			
19	30.07.2024	0.30	43.8		
20		1.30	40.2		
21		2.30	39.8		
22		3.30	39.5		
23		4.30	40.0		
24		5.30	41.0		

Day Time (06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III Ambient air quality standards irrespective of Noise (Day & Night Time)

*****END OF REPORT*****

For Chennai Testing Laboratory Pvt Ltd

Verified by

Authorized Signatory
MANIKANDAN
Head - Environment Division
CHENNAI

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-26975/2024-25 & 07.08.2024
Sample Number	N-26975/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipattu Village, K. Periyapatti Post, Manapparal Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Noise
Sample Description	AMBIENT NOISE LEVEL MONITORING
Sampling Location	Thiru.Kandasamy House, Pongudipatti (8m Road Junction, Outside of Compound Wall)
Sample Drawn on	29.07.2024 to 30.07.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 9989
Equipment used for Sampling	Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows:

SLNO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	~ Units Leq dB(A)
DAY TIME					
1	29.07.2024	9.30	48.5	43.7	75.0
2		10.30	47.9		
3		11.30	46.1		
4		12.30	46.8		
5		13.30	45.7		
6		14.30	43.7		
7		15.30	44.2		
8		16.30	45.8		
9		17.30	43.0		
10		18.30	41.6		
11		19.30	42.0		
12		20.30	38.5		
13		21.30	37.4		
14	30.07.2024	4.30	39.5	36.6	70.0
15		7.30	42.4		
16		8.30	45.5		
NIGHT TIME					
17	29.07.2024	22.30	39.3	36.6	70.0
18		23.30	38.0		
19	30.07.2024	0.30	36.6	36.6	70.0
20		1.30	35.7		
21		2.30	34.9		
22		3.30	35.0		
23		4.30	36.3		
24		5.30	37.2		

Day Time (06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TWPCLB Limits as per Schedule III, Ambient air quality standards irrespective of Noise (Day & Night Time)

END OF REPORT

Verified by

For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory

G. MANIKANDAN
Head, Environment Division
(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-20119/2024-25 & 02-09-2024
Sample Number	N-20119/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipattu Village, K. Periyapatti Post, Manapparai Taluk, Tiruchy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Noise
Sample Description	AMBIENT NOISE LEVEL MONITORING
Sampling Location	Guest House
Sample Drawn on	21.08.2024 to 22.08.2024
Sampling Plan & Procedure	CTL/QSP/P-09 & IS-9989
Equipment used for Sampling	Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows:

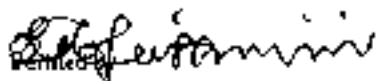
SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	21.08.2024	11.00	45.7	49.1	75.0
2		12.00	50.1		
3		13.00	46.8		
4		14.00	44.3		
5		15.00	52.3		
6		16.00	54.5		
7		17.00	49.7		
8		18.00	52.8		
9		19.00	50.5		
10		20.00	52.2		
11		21.00	46.3		
12	22.08.2024	6.00	46.7	40.6	70.0
13		7.00	47.3		
14		8.00	48.4		
15		9.00	49.5		
16		10.00	48.7		
NIGHT TIME					
17	21.08.2024	22.00	44.5	40.6	70.0
18		23.00	43.7		
19	22.08.2024	0.00	40.2		
20		1.00	38.7		
21		2.00	36.0		
22		3.00	37.9		
23		4.00	39.6		
24		5.00	43.5		

Day Time: (06.00 Hrs to 22.00 Hrs) Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III, Ambient air quality standards irrespective of Noise (Day & Night Time)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd



Authorised Signatory
G. NIKANDAN

The Report and/or its use is valid only for the purpose and for the conditions specified.
The Report is valid only for the use of the addressee as provided in the Report.
600 032, Tamil Nadu - India
(CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-20119A/2024-25 & 02.09.2024
Sample Number	N-20119A/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyapatti Post, Manapporai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Noise
Sample Description	AMBIENT NOISE LEVEL MONITORING
Sampling Location	Factory Canteen Building
Sample Drawn on	21.08.2024 to 22.08.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 9989
Equipment used for Sampling	Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows:

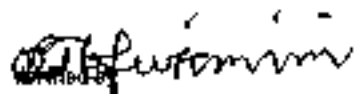
SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	21.08.2024	11.00	61.6	60.9	75.0
2		12.00	62.5		
3		13.00	59.8		
4		14.00	56.4		
5		15.00	60.7		
6		16.00	58.6		
7		17.00	63.7		
8		18.00	64.5		
9		19.00	61.8		
10		20.00	67.9		
11		21.00	58.4		
12	22.08.2024	6.00	54.8	51.1	70.0
13		7.00	56.7		
14		8.00	63.5		
15		9.00	65.2		
16		10.00	61.3		
NIGHT TIME					
17	21.08.2024	22.00	54.7	51.1	70.0
18		23.00	52.1		
19	22.08.2024	0.00	50.4		
20		1.00	46.9		
21		2.00	47.5		
22		3.00	49.7		
23		4.00	52.9		
24		5.00	55.4		

Day Time: (06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCL Limits as per Schedule III Ambient air quality standards in respect of Noise (Day & Night Time)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd



Authorized Signatory
A. SANKARAN

The Report shall not be used to allege, defend or for any other purpose, without the consent of the laboratory. The addressee is advised to contact the laboratory for any further information.

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-28119B/2024-25 & 02.09.2024
Sample Number N-28119B/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Noise
Sample Description AMBIENT NOISE LEVEL MONITORING
Sampling Location Near North West Compound Wall
Sample Drawn on 21.08.2024 to 22.08.2024
Sampling Plan & Procedure CTL/QSP/P-89 & IS 9989
Equipment used for Sampling Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows

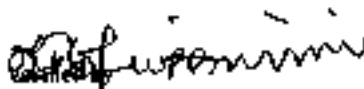
SLNO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	Limits Leq dB(A)
DAY TIME					
1	21.08.2024	11:00	57.5	57.1	75.0
2		12:00	62.3		
3		13:00	64.3		
4		14:00	58.7		
5		15:00	59.3		
6		16:00	54.4		
7		17:00	55.3		
8		18:00	58.7		
9		19:00	60.1		
10		20:00	55.5		
11		21:00	54.7		
12	22.08.2024	6:00	49.5	46.5	70.0
13		7:00	53.5		
14		8:00	56.4		
15		9:00	57.3		
16		10:00	55.5		
NIGHT TIME					
17	21.08.2024	22:00	50.9	46.5	70.0
18		23:00	53.3		
19	22.08.2024	0:00	44.7		
20		1:00	42.5		
21		2:00	43.7		
22		3:00	42.8		
23		4:00	46.8		
24		5:00	47.2		

Day Time: (06.00 Hrs to 22.00 Hrs). Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III, Ambient air quality standards irrespective of Noise (Day & Night Time)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd



Authorized Signatory
 Environment Division
 Chennai, Tamil Nadu - India

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date: CTL/CH/N-28119E/2024-25 & 02.09.2024
 Sample Number: N-28119E/24-25
 Name of the Customer: M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
 Address: Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by: Laboratory
 Sample Name: Noise
 Sample Description: AMBIENT NOISE LEVEL MONITORING
 Sampling Location: 110 KVA Sub station(Right Side 10m Away)
 Sample Drawn on: 21.08.2024 to 22.08.2024
 Sampling Plan & Procedure: CTL/QSP/F-89 & IS 9909
 Equipment used for Sampling: Sound level Meter S No:SS4062

Test Results:

The above sample tested as received, and results are as follows:

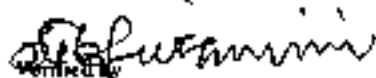
SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	21.08.2024	11.00	63.5	58.3	75.0
2		12.00	60.4		
3		13.00	61.2		
4		14.00	59.7		
5		15.00	56.5		
6		16.00	53.3		
7		17.00	52.7		
8		18.00	58.4		
9		19.00	62.1		
10		20.00	60.3		
11	22.08.2024	21.00	55.7	40.8	70.0
12		6.00	53.5		
13		7.00	58.4		
14		8.00	60.1		
15		9.00	59.3		
16		10.00	57.4		
NIGHT TIME					
17	21.08.2024	22.00	55.5	40.8	70.0
18		23.00	52.4		
19	22.08.2024	0.00	49.7		
20		1.00	45.6		
21		2.00	43.2		
22		3.00	45.1		
23		4.00	47.8		
24		5.00	51.3		

Day Time:(06.00 Hrs to 22.00 Hrs). Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III Ambient air quality standards irrespective of Noise (Day & Night Time)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd



G. MANIKANDAN
 Head, Environmental Division
 (CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date: CTL/CH/N-28119F/2024-25 & 02.09.2024
 Sample Number: N-28119F/24-25
 Name of the Customer: M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
 Address: Moudipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by: Laboratory
 Sample Name: Noise
 Sample Description: AMBIENT NOISE LEVEL MONITORING
 Sampling Location: Southern Boundary
 Sample Drawn on: 21.08.2024 to 22.08.2024
 Sampling Plan & Procedure: CTL/QSP/F-89 & IS 9989
 Equipment used for Sampling: Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows:

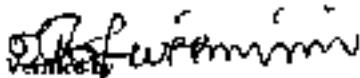
SLNO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAYTIME					
1	21.08.2024	11.00	58.7	55.0	75.0
2		12.00	56.5		
3		13.00	54.3		
4		14.00	53.7		
5		15.00	50.2		
6		16.00	55.2		
7		17.00	57.6		
8		18.00	58.3		
9		19.00	50.5		
10		20.00	53.3		
11	22.08.2024	21.00	48.1	46.3	70.0
12		6.00	55.7		
13		7.00	56.4		
14		8.00	58.7		
15		9.00	57.4		
16		10.00	56.1		
NIGHT TIME					
17	21.08.2024	22.00	49.7	46.3	70.0
18	22.08.2024	23.00	46.2		
19		0.00	44.1		
20		1.00	41.6		
21		2.00	43.5		
22		3.00	46.2		
23		4.00	48.7		
24		5.00	50.1		

Day Time:(06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III, Ambient air quality standards irrespective of Noise (Day & Night Time)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd



As Authorized Signatory
S. PRATIKANDAN
 Head, Environment Division
 Chennai - India

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-28119D/2024-25 & 02.09.2024
Sample Number	N-28119D/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Tiruchy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Noise
Sample Description	AMBIENT NOISE LEVEL MONITORING
Sampling Location	West Entrance Gate (Right side 50m away From the Gate, 10m from Compound wall)
Sample Drawn on	21.08.2024 to 22.08.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 9989
Equipment used for Sampling	Sound level Meter S No: 554062

Test Results:

The above sample tested as received, and results are as follows:

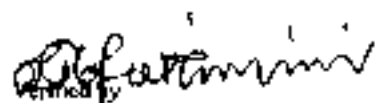
SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)				
			Leq	Average Leq	* Limits Leq dB(A)		
DAY TIME							
1	21.08.2024	11:00	62.3	54.4	75.0		
2		12:00	58.7				
3		13:00	56.5				
4		14:00	54.7				
5		15:00	50.4				
6		16:00	48.5				
7		17:00	49.4				
8		18:00	51.5				
9		19:00	54.6				
10		20:00	53.7				
11	21:00	55.5					
12	22.08.2024	6:00	49.4				
13		7:00	53.5				
14		8:00	55.6				
15		9:00	57.5				
16		10:00	58.1				
NIGHT TIME							
17	21.08.2024	22:00	49.4	44.7	70.0		
18		23:00	48.3				
19	22.08.2024	0:00	44.5				
20		1:00	43.1				
21		2:00	41.7				
22		3:00	42.2				
23		4:00	44.5				
24		5:00	45.7				

Day Time: (06:00 Hrs to 22:00 Hrs), Night Time (22:00 Hrs to 06:00 Hrs)

* TNPCB Limits as per Schedule III, Ambient air quality standards in 59.4

*****END OF REPORT*****

For Chennai Testing Laboratory Pvt Ltd



 The Report shall not be used to malign, defame and for any numberous purposes.
 The Report is meant only for reference of the addressor to procure better services.
 S. MANIKANDAN
 Environment Division
 Chennai, Tamil Nadu - India

Page 1 of 1

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com www.ctllabs.in

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date: CTL/CH/N-28119C/2024-25 & 02.09.2024
 Sample Number: N-28119C/24-25
 Name of the Customer: M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
 Address: Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by: Laboratory
 Sample Name: Noise
 Sample Description: AMBIENT NOISE LEVEL MONITORING
 Sampling Location: Back side of Workshop(Near Compound wall)
 Sample Drawn on: 21.08.2024 to 22.08.2024
 Sampling Plan & Procedure: CTL/QSP/F-89 & IS 9989
 Equipment used for Sampling: Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)				
			Leq	Average Leq	* Limits Leq dB(A)		
DAY TIME							
1	21.08.2024	11.00	60.5	59.6	75.0		
2		12.00	62.3				
3		13.00	56.5				
4		14.00	57.4				
5		15.00	58.5				
6		16.00	61.4				
7		17.00	63.1				
8		18.00	64.5				
9		19.00	61.7				
10		20.00	58.4				
11		21.00	56.1				
12	22.08.2024	6.00	51.4	49.2	70.0		
13		7.00	56.5				
14		8.00	57.5				
15		9.00	62.3				
16		10.00	65.5				
NIGHT TIME							
17	21.08.2024	22.00	55.7			49.2	70.0
18	23.00	57.7					
19	22.08.2024	0.00	49.4				
20		1.00	47.5				
21		2.00	42.0				
22		3.00	45.5				
23		4.00	47.4				
24		5.00	48.5				

Day Time:(06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III Ambient air quality standards in respect of Noise (Day & Night Time)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

[Signature]
 Verified by

The Report shall not be used to assign, dispute and for any other legal purpose.
 The Report is valid only for the use of the addressee to whom it is addressed.

[Signature]
 Authorized Signatory
 G. R. KANDAN
 Head - QA / Tamil Nadu - India
 (CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-26119G/2024-25 & 02.09.2024
Sample Number	N-26119G/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Noise
Sample Description	AMBIENT NOISE LEVEL MONITORING
Sampling Location	Thiru.Kandasamy House,Pongadipatti(8m Road Junction, Outside of Compound Wall)
Sample Drawn on	21.08.2024 to 22.08.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 9989
Equipment used for Sampling	Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows

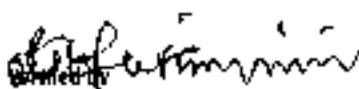
SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	21.08.2024	11.00	46.5	49.7	75.0
2		12.00	52.0		
3		13.00	53.4		
4		14.00	48.7		
5		15.00	54.2		
6		16.00	51.9		
7		17.00	50.6		
8		18.00	49.5		
9		19.00	52.7		
10		20.00	51.3		
11		21.00	48.5		
12	22.08.2024	6.00	45.2	39.3	70.0
13		7.00	44.3		
14		8.00	46.9		
15		9.00	48.6		
16		10.00	50.1		
NIGHT TIME					
17	21.08.2024	22.00	45.7	39.3	70.0
18		23.00	41.3		
19	22.08.2024	0.00	36.9		
20		1.00	35.8		
21		2.00	36.4		
22		3.00	37.2		
23		4.00	39.8		
24		5.00	41.2		

Day Time:(06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III, Ambient air quality standards irrespective of Noise (Day & Night Time)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd



**Head - ENVIRONMENT DIVISION
(CHEMICAL)**

Page 1 of 1

The Report should not be used to hedge, defame and to any malicious purpose.
Any Report is given only for the use of the addressee to promote his/her own business.

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennai@testinglab.com www.ctllabs.in

TEST REPORT

Test Report No & Date: CTL/CH/N-29785/2024-25 & 03.10.2024
 Sample Number: N-29785/24-25
 Name of the Customer: M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
 Address: Mondipatti Village, K.Periyapatti Post, Marappara Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by: Laboratory
 Sample Name: Noise
 Sample Description: AMBIENT NOISE LEVEL MONITORING
 Sampling Location: Guest House
 Sample Drawn on: 20.09.2024 to 21.09.2024
 Sampling Plan & Procedure: CTL/QSP/P-89 & IS 9989
 Equipment used for Sampling: Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows

DISCIPLINE : CHEMICAL

GROUP - ATMOSPHERIC POLLUTION

SLNO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	20.09.2024	9.00	47.2	47.6	75.0
2		10.00	44.6		
3		11.00	49.2		
4		12.00	50.6		
5		13.00	48.6		
6		14.00	53.2		
7		15.00	55.6		
8		16.00	49.8		
9		17.00	47.6		
10		18.00	46.2		
11		19.00	45.9		
12		20.00	47.3		
13		21.00	40.5		
14	21.09.2024	6.00	42.6		
15		7.00	46.3		
16		8.00	45.8		
NIGHT TIME					
17	20.09.2024	22.00	42.7	39.2	70.0
18		23.00	40.2		
19	21.09.2024	0.00	38.5		
20		1.00	37.2		
21		2.00	36.5		
22		3.00	37.9		
23		4.00	39.5		
24		5.00	41.2		

Day Time:(06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III, Ambient air quality standards irrespective of Noise (Day & Night Time)

*** END OF REPORT ***

Verified by: 

For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory

G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29786/2024-25 & 03.10.2024
Sample Number	N-29786/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Noise
Sample Description	AMBIENT NOISE LEVEL MONITORING
Sampling Location	Factory Canteen Building
Sample Drawn on	20.09.2024 to 21.09.2024
Sampling Plan & Procedure	CTL/QSP/F-B9 & IS 9989
Equipment used for Sampling	Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE - CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	19.09.2024	10.00	60.8	59.3	75.0
2		11.00	57.2		
3		12.00	58.7		
4		13.00	55.6		
5		14.00	56.8		
6		15.00	58.9		
7		16.00	63.5		
8		17.00	62.7		
9		18.00	60.9		
10		19.00	57.6		
11		20.00	59.5		
12		21.00	56.5		
13	20.09.2024	6.00	58.1	50.7	70.0
14		7.00	55.7		
15		8.00	64.2		
16		9.00	61.9		
NIGHT TIME					
17	19.09.2024	22.00	52.8	50.7	70.0
18		23.00	54.1		
19	20.09.2024	0.00	47.2		
20		1.00	46.3		
21		2.00	48.3		
22		3.00	50.6		
23		4.00	51.7		
24		5.00	54.8		

Day Time:(06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCR Limits as per Schedule III, Ambient air quality standards irrespective of Noise (Day & Night Time)

END OF REPORT

Verified by 

For Chennai Testing Laboratory Pvt Ltd

 Head (CHEMICAL)
 Environment Division
 A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 082, Tamil Nadu - India

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-29787/2024-25 & 03.10.2024
Sample Number N-29787/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II.
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Noise
Sample Description AMBIENT NOISE LEVEL MONITORING
Sampling Location Near North West Compound Wall
Sample Drawn on 20.09.2024 to 21.09.2024
Sampling Plan & Procedure CTL/QSP/F-09 & IS 9989
Equipment used for Sampling Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE: CHEMICAL
GROUP : ATMOSPHERIC POLLUTION

SLNO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	19.09.2024	10.00	56.3	55.6	75.0
2		11.00	59.5		
3		12.00	61.6		
4		13.00	57.5		
5		14.00	60.8		
6		15.00	59.7		
7		16.00	55.1		
8		17.00	56.5		
9		18.00	59.3		
10		19.00	52.6		
11		20.00	51.5		
12		21.00	53.6		
13	20.09.2024	6.00	48.6	45.6	70.0
14		7.00	51.3		
15		8.00	54.8		
16		9.00	56.5		
NIGHT TIME					
17	19.09.2024	22.00	49.8	45.6	70.0
18	23.00	47.5			
19	20.09.2024	0.00	45.7		
20		1.00	49.6		
21		2.00	44.5		
22		3.00	43.8		
23	4.00	45.7			
24	5.00	46.8			

Day Time: (06.00 Hrs to 22.00 Hrs). Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III, Ambient air quality standards irrespective of Noise (Day & Night Time)

END OF REPORT

Verified by 

For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory


The Report should be used for knowledge, reference and for legal purposes only. It is not to be used for any other purpose.
 M. MANIKANDAN
 Head - Environment Division
 Chennai - 600 032, Tamil Nadu - India

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29790/2024-25 & 03.10.2024
Sample Number	N-29790/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipattu Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Noise
Sample Description	AMBIENT NOISE LEVEL MONITORING
Sampling Location	110 KVA Sub station(Right Side 10m Away)
Sample Drawn on	20.09.2024 to 21.09.2024
Sampling Plan & Procedure	CTL/QSP/F-09 & IS 9989
Equipment used for Sampling	Sound level Meter 5 No:554062

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SLNO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)				
			Leq	Average Leq	* Limits Leq dB(A)		
DAY TIME							
1	19.09.2024	10.00	64.2	56.6	75.0		
2		11.00	61.6				
3		12.00	58.3				
4		13.00	55.2				
5		14.00	57.6				
6		15.00	58.1				
7		16.00	52.0				
8		17.00	50.6				
9		18.00	56.3				
10		19.00	60.5				
11		20.00	58.5				
12		21.00	53.7				
13	20.09.2024	6.00	50.4	47.2	70.0		
14		7.00	53.8				
15		8.00	55.7				
16		9.00	59.4				
NIGHT TIME							
17	19.09.2024	22.00	52.4			47.2	70.0
18		23.00	50.5				
19	20.09.2024	0.00	48.6				
20		1.00	44.7				
21		2.00	42.9				
22		3.00	43.5				
23		4.00	46.2				
24		5.00	48.6				

Day Time:(06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III, Ambient air quality standards irrespective of Noise (Day & Night Time)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

Verified by

Authorized Signatory

The Report should not be used to initiate a dispute, referred to for any work, except upon the Report's main use for the use of the address to generate the Report.

G. NAIKANDAN
Head of Environment Division
(CHEMICAL)

TEST REPORT

Test Report No & Date: CTL/CH/N-29791/2024-25 & 03.10.2024
 Sample Number: N-29791/24-25
 Name of the Customer: M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II.
 Address: Mondipatti Village, K Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.

Sample Drawn by: Laboratory
 Sample Name: Noise
 Sample Description: AMBIENT NOISE LEVEL MONITORING
 Sampling Location: Southern Boundary
 Sample Drawn on: 20.09.2024 to 21.09.2024
 Sampling Plan & Procedure: CTL/QSP/R-89 & IS 9989
 Equipment used for Sampling: Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE - CHEMICAL

GROUP 1 ATMOSPHERIC POLLUTION

SL-NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	19.09.2024	10.00	56.3	52.4	75.0
2		11.00	54.1		
3		12.00	55.2		
4		13.00	51.6		
5		14.00	49.6		
6		15.00	50.7		
7		16.00	52.6		
8		17.00	48.9		
9		18.00	51.4		
10		19.00	47.6		
11		20.00	45.8		
12		21.00	49.6		
13		20.09.2024	6.00		
14	7.00		57.4		
15	8.00		54.2		
16	9.00		59.3		
NIGHT TIME					
17	19.09.2024	22.00	50.3	45.7	70.0
18	23.00	46.2			
19	20.09.2024	0.00	43.8		
20		1.00	41.9		
21		2.00	44.3		
22		3.00	45.7		
23		4.00	42.8		
24		5.00	50.4		

Day Time: (06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB limits as per Schedule 10, Ambient air quality standards irrespective of Noise (Day & Night Time)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

Verified by 

This Report should not be used to sue, charge, defend and/or sue with any person. The Report is required only for the use of the customer to improve his/her activities.

Authorized Signatory


M. MANIKANDAN

Head - Government Division

Chennai, Tamil Nadu - India

A - Supur 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 092, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennai@testinglab.com www.otllabs.in

TEST REPORT

Test Report No & Date	CTL/CH/N-29789/2024-25 & 03.10.2024
Sample Number	N-29789/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyasatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Noise
Sample Description	AMBIENT NOISE LEVEL MONITORING
Sampling Location	West Entrance Gate(Right side 50m away From the Gate, 10m from Compound wall)
Sample Drawn on	20.09.2024 to 21.09.2024
Sampling Plan & Procedure	CTL/QSP/F-09 & IS 9889
Equipment used for Sampling	Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SLNO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	19.09.2024	10.00	66.3	58.0	75.0
2		11.00	57.4		
3		12.00	62.9		
4		13.00	60.9		
5		14.00	63.6		
6		15.00	61.1		
7		16.00	58.5		
8		17.00	55.9		
9		18.00	53.8		
10		19.00	50.4		
11		20.00	52.7		
12		21.00	48.9		
13	20.09.2024	6.00	53.8	47.6	70.0
14		7.00	57.6		
15		8.00	60.5		
16		9.00	63.7		
NIGHT TIME					
17	19.09.2024	22.00	47.6	47.6	70.0
18		23.00	50.5		
19	20.09.2024	0.00	46.3		
20		1.00	44.7		
21		2.00	48.1		
22		3.00	45.7		
23		4.00	47.7		
24		5.00	50.5		

Day Time: (06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III, Ambient air quality standards (rrr 59.4

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

Verified by

Authorized Signatory
G. MANIKANDAN
 Environmental Division
 (CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-29788/2024-25 & 03.10.2024
Sample Number N-29788/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Pertiyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Noise
Sample Description AMBIENT NOISE LEVEL MONITORING
Sampling Location Back side of Workshop (Near Compound wall)
Sample Drawn on 20.09.2024 to 21.09.2024
Sampling Plan & Procedure CTL/QSP/E-09 & IS 9989
Equipment used for Sampling Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE: CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)		
			Leq	Average Leq	* Limits Leq dB(A)
DAY TIME					
1	19.09.2024	10.00	58.4	57.2	75.0
2		11.00	61.4		
3		12.00	57.6		
4		13.00	56.3		
5		14.00	54.8		
6		15.00	62.7		
7		16.00	64.9		
8		17.00	65.3		
9		18.00	60.7		
10		19.00	56.4		
11		20.00	52.5		
12		21.00	48.5		
13	20.09.2024	6.00	49.2	46.0	70.0
14		7.00	53.6		
15		8.00	57.2		
16		9.00	55.0		
NIGHT TIME					
17	19.09.2024	22.00	46.2	46.0	70.0
18	23.00	47.3			
19	0.00	43.8			
20	1.00	42.7			
21	20.09.2024	2.00	44.0	46.0	70.0
22		3.00	46.3		
23		4.00	47.2		
24		5.00	50.4		

Day Time: (06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III Ambient air quality standards Irrespective of Noise (Day & Night Time)

END OF REPORT

Verified by 

For Chennai Testing Laboratory Pvt Ltd

Authorized Signatory

G. HANDEKANDAN

Head - 890, 933, Tamil Nadu - India

(CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29792/2024-25 & 03.10.2024
Sample Number	N-29792/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipam Village, K Penypatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu
Sample Drawn by	Laboratory
Sample Name	Noise
Sample Description	AMBIENT NOISE LEVEL MONITORING
Sampling Location	Thiru.Kandasamy House, Pongudipattii@m Road Junction, Outside of Compound Wall)
Sample Drawn on	20.09.2024 to 21.09.2024
Sampling Plan & Procedure	CTL/QSP/F-09 & IS 9389
Equipment used for Sampling	Sound level Meter S No:554062

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SLNO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)				
			Leq	Average Leq	* Limiter Leq dB(A)		
DAY TIME							
1	20.09.2024	9.00	49.5	48.5	75.0		
2		10.00	51.2				
3		11.00	50.8				
4		12.00	49.7				
5		13.00	52.6				
6		14.00	48.5				
7		15.00	42.6				
8		16.00	49.8				
9		17.00	48.6				
10		18.00	50.1				
11		19.00	47.8				
12		20.00	46.2				
13		21.00	44.6				
14	21.09.2024	6.00	45.2	38.8	70.0		
15		7.00	47.9				
16		8.00	50.8				
NIGHT TIME							
17	20.09.2024	22.00	42.6			38.8	70.0
18	23.00	38.5					
19	21.09.2024	0.00	37.6				
20		1.00	36.2				
21		2.00	37.5				
22		3.00	38.5				
23		4.00	36.7				
24	5.00	40.1					

Day Time:(06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III, Ambient air quality standards irrespective of Noise (Day & Night Time)

For Chennai Testing Laboratory Pvt Ltd

Verified by

Authorised Signatory

G. MANIKANDAN
Environment Division
(CHEMICAL)

Page 1 of 1

The Report shall not be used to malign, accuse and for any other purpose. The Report is valid only on the use of the standards as provided herein.

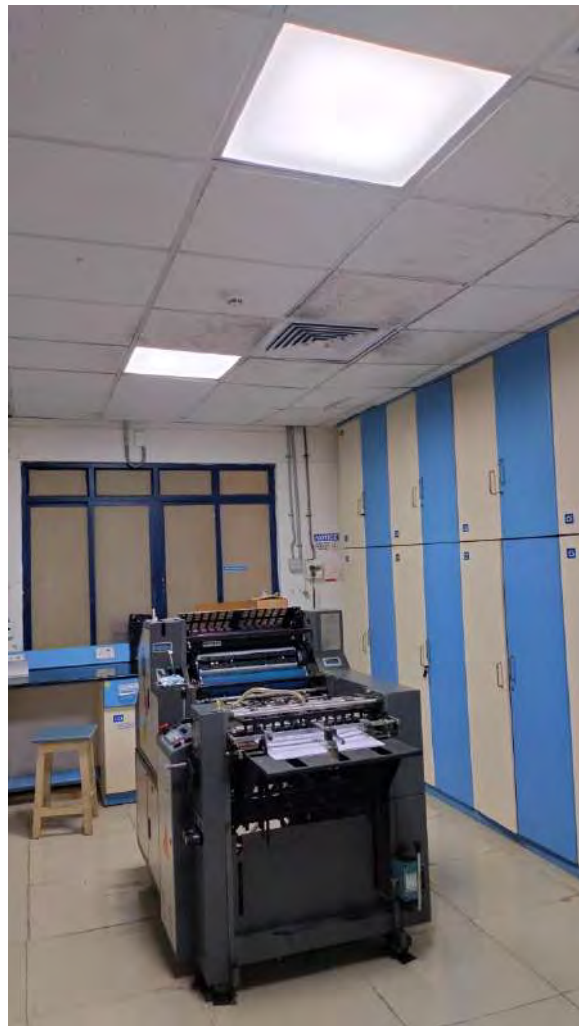
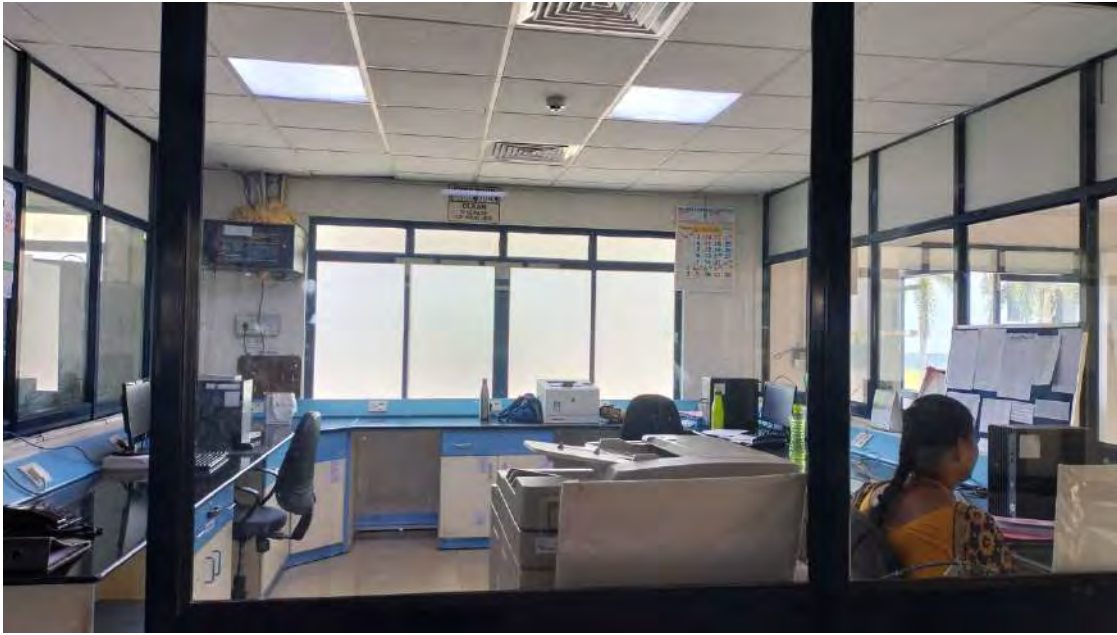
A - Super 19, T.V.K. Industrial Estate, Gundy, Chennai - 600 032, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennaitestling@chennaitestlinglab.com www.ctllabs.in

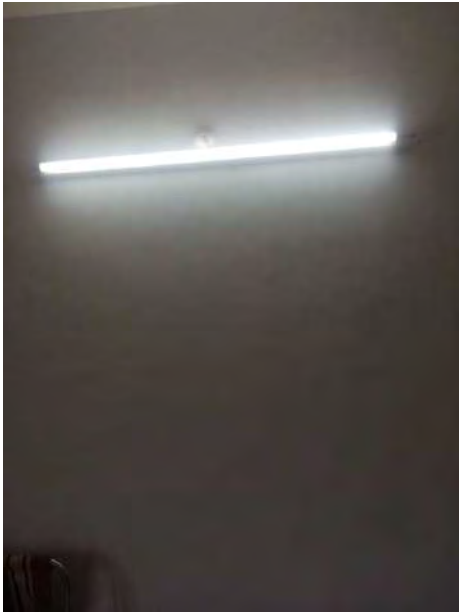
TNPL Unit - II Solar Lights Installed at Nearby Villages



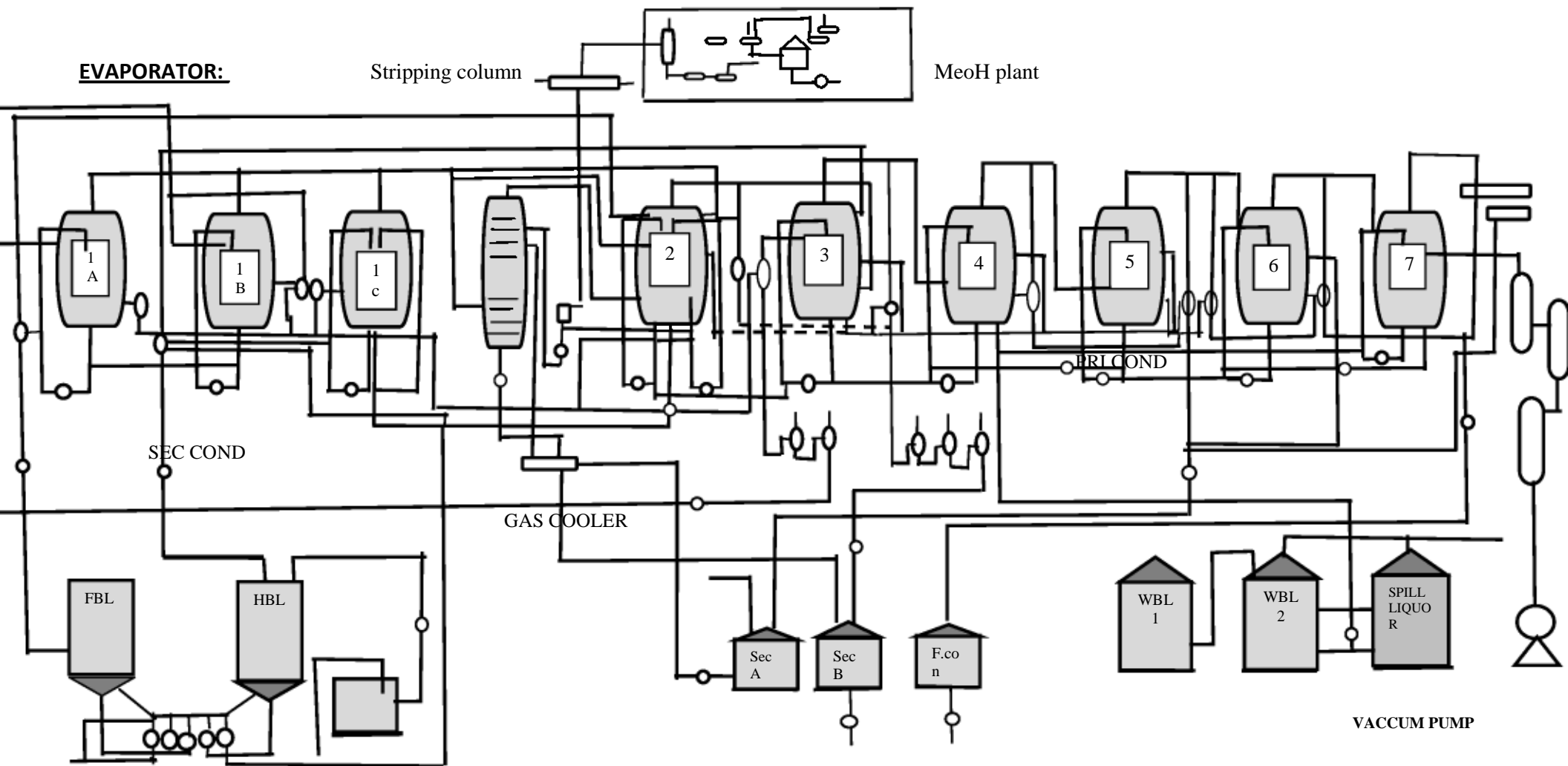
Led Lights in Office Buildings of TNPL Unit - II



Led Lights in residential areas of TNPL Unit - II



TNPL Unit - II Chemical Recovery Plant



TNPL Unit - II Chemical Recovery Plant

PROCESS DESCRIPTION FOR EVAPORATOR:

White liquor (NaOH+Na₂S) supplied to Pulp Mill is used to cook HW Chips and separate fiber & lignin contents in Hard Wood pulping process. The cooked pulp contains used cooking chemical and dissolved Inorganic materials. It is necessary to wash the brown pulp to reduce the chemical consumption in bleached pulp and to recover the cooking chemicals. The Brown pulp is washed with hot water in counter current washing /filter pressing in pulp mill to recover the chemicals. The washed liquor contains low concentration of chemicals, it is termed as weak black liquor (WBL) from hard wood pulping steam is around 14-15% total solids. The WBL will be concentrated to increase the solids from 15 % to 75 % by evaporating the water from WBL in evaporator plant. The evaporator consists of nine numbers of bodies and all the effects operate according to falling film principle. The Evaporator is designed to increase the black liquors concentration from 15 to 75 %solids. The Weak Black Liquor from Feed WBL storage tanks feed to the Feed Flash tanks, after liquor flash, the generated vapour is connected to the jacket of effect No.5,6,7 in three stage , released vapour will be used as heating medium in effects - 5,6 and 7.The liquor from FFT3 pumped to eff-7-eff-6-eff-5-eff-4-eff-3-eff-2A/2B-eff IA/IB/IC counter-current flow to vapour and FBL storage tank. Stand by effect each from effect- I are under WBL washing.

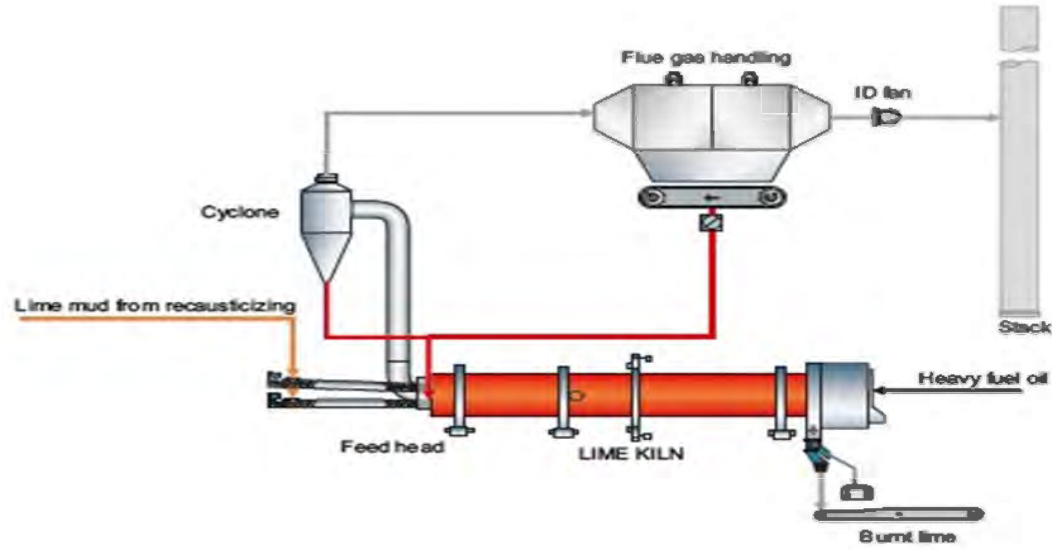
TNPL Unit - II Chemical Recovery Plant

PROCESS DESCRIPTION FOR RECOVERY BOILER:

The main function of chemical Recovery Boiler is to recover Inorganic chemicals and Heat from incineration of black liquor FBL storage tank at Evaporator plant. The Firing Black Liquor temperature is increased through direct black liquor heater, Firing Black liquor is fired into Chemical Recovery Boiler. The Air system consists of primary, secondary & Tertiary fan for the complete combustion of Black Liquor. On firing the Black liquor in recovery furnace, the organic compounds in Black Liquor Dry Solids (mainly Carbon compounds termed as Lignin which is separated in pulping process) starts burning and generates heat. The following reaction takes place in furnace as follows: Pyrolysis, Combustion, Oxidation & Reduction. The heat generated is used to produce steam from steam drum of the Boiler & it is passed through superheater coils. The super heated steam is supplied to turbine for generation of power. The flue gas passes through Boiler Bank, Economizer #1 & #2 & finally to Electrostatic Precipitator & the dust collected in Electrostatic Precipitator fed back to system. On firing the Black Liquor, the Inorganic Sodium compounds in Black liquor Dry Solids converted into molten state in the hearth of furnace which is termed as Smelt. The smelt passes through the three numbers of water cooled Spout systems. The smelt dissolved in water or weak white liquor in a dissolving tank to produce. Green Liquor is pumped to Reausticising plant to produce white liquor by addition of Lime.

TNPL Unit - II Chemical Recovery Plant

LIME KILN :



TNPL Unit - II Chemical Recovery Plant

PROCESS DESCRIPTION FOR LIME KILN:

The Lime mud re-burning is the process of converting the lime mud (Calcium Carbonate) generated in the Causticizing plant to burnt lime (Calcium Oxide). The calcium carbonate in the feed mud to the kiln ranges typically from 88% to 92%, depending upon the makeup stone usages and the impurities carried from the pulping process. From the lime mud storage tank, lime mud is fed to Lime mud filter. De-watered mud and filtrate is separated in filters. Filtrate is fed into Weak white liquor tank Lime mud washer to enhance the mud washing. Dewatered mud along with the makeup lime stone is fed through screw feeder to the feed end of lime kiln. Furnace oil is pumped from main storage oil tank to day oil tank. At discharge end, Furnace oil is fired into Lime kiln for Calcination. The flue gas passes through Electrostatic Precipitator & the dust collected in Electrostatic Precipitator is fed back to system. The following action takes place in Lime kilns sequence: Drying, Heating, Calcination & cooling. After cooling, the re burned lime is transferred to storage bins through conveying system.



Chemical Recovery
Boiler

Black liquor
Evaporator

ECF (Elemental
Chlorine Free)
Hardwood Pulp Mill

Lime Kiln

Colour Coded Bins @ TNPL Unit-II

As a part of environment protection and to maintain hygiene in work place 5 colour coded bins were placed at various places of the unit





Tamil Nadu Newsprint and Papers Limited Unit II

(A Govt. of Tamil Nadu Enterprise)

Mondipatti, Manaparai-621 306, Trichy District, Tamilnadu.

Telephone Nos: 04332-261600 to 265100

DELIVERY CHALLAN (INTRA STATE STOCK TRANSFER)

CONSIGNER STATE STATE CODE GSTIN	TNPL UNIT II, MONDIPATTI MANAPARAI, TRICHY DISTRICT TAMIL NADU 33 33AAACT2935J1ZF	DC NO.	20232300331	DATE	18-MAR-2024
CONSIGNEE CUSTOMER ADDRESS STATE STATE CODE GSTIN	14146 PAN : AAACT2935J Cement Raw Material Inventory CEMENT RAW MATERIAL INVENTORY, TNPL LIME SLUDGE AND FLY ASH MANAGEMENT, KAGITHAPURAM KAGITHAPURAM, TAMIL NADU, 639136, INDIA TAMIL NADU 33 33AAACT2935J1ZF	ADDRESS TO DELIVERY CUSTOMER ADDRESS STATE STATE CODE GSTIN	14146 PAN : AAACT2935J Cement Raw Material Inventory CEMENT RAW MATERIAL INVENTORY, TNPL LIME SLUDGE AND FLY ASH MANAGEMENT, KAGITHAPURAM KAGITHAPURAM, TAMIL NADU, 639136, INDIA TAMIL NADU 33 33AAACT2935J1ZF		
SALE ORDER	: 820232300006	DATE	23-JAN-2024	RANGE & DIVISION	MOFFUSAL TRICHY-1
		GST COMMISSIONERATE			NO. 1, WILLIAMS ROAD, TRICHY-1
DELIVERY ID TRANSPORTER TRUCK NO. RR /LR NO. IR NO /DATE.	5660710 MANUAL TN34MA9655 232431003857 / 23-JAN-2024	BASIC PRICE TAXABLE VALUE CGST@0%		(Rs) 2,429.17 2,429.17 0.00	
HSN CODE DESCRIPTION ITEM CODE	2621 BOARD FLY ASH FROM ESP BEGPBFASHI	NET AMOUNT		Rs. 2429	
UQC QUANTITY UNIT PRICE	MT 40.71 59.67	AMOUNT IN WORDS		RUPEES TWO THOUSAND FOUR HUNDRED TWENTY-NINE ONLY	

For Tamil Nadu Newsprint and Papers Limited Unit-II


Authorized Signatory

GSTIN : 33AAACT2935J1ZF
State : TAMIL NADU
State Code : 33



Tamil Nadu Newsprint and Papers Limited Unit II
(A Govt. of Tamil Nadu Enterprise)

Mondipatti, Manapparai-621 306, Trichy District, Tamilnadu.
Telephone No: 04332-265265

TAX INVOICE

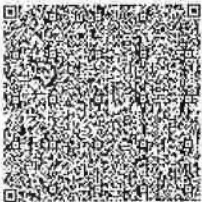
BUYER/TRANSPORTER COPY/GST/FILE

GST Invoice No. : 20238501141	DATE : 29-MAR-2024
Transaction No. : 820231101524	DATE : 29-MAR-24
Sale Order : 820231300078	DATE : 26-FEB-2024
IRN : 143314d2def36c0c721c1195ed9dea4d4762c3f9d6bbe21e154fa05867246c32	
BILL TO CODE : 43982 PAN: AYEP A2477P NAME : ARIF FLY ASH BRICKS ADDRESS : 1/419, SANTHAIPETTAI,,VAIYAMPATTI,,MANAPPAR AI,,MANAPPARAI,621315,TAMIL NADU,MANAPPARAI,621315 STATE : TAMIL NADU STATE CODE : 33 GSTIN : 33AYEP A2477P1Z9	SHIP TO CODE : 43982 PAN: AYEP A2477P CUSTOMER : ARIF FLY ASH BRICKS ADDRESS : 1/419, SANTHAIPETTAI,,VAIYAMPATTI,,MANAPPARAI,, MANAPPARAI,621315,TAMIL NADU,MANAPPARAI,621315 STATE : TAMIL NADU STATE CODE : 33 GSTIN : 33AYEP A2477P1Z9
RANGE & DIVISION : MOFFUSAL TRICHY - I COMMISSIONERATE : NO.1,WILLIAMS ROAD, TRICHY -1 TRICHY	

LORRY NO. TN21AK6810

S.No.	DESCRIPTION	HSN CODE	ITEM NO.	INV QTY	UQC	RATE(Rs.P.)	AMOUNT(Rs.P.)	
1	BOARD FLY ASH FROM ECNOMISER	26219000	BEGPBWASHB	16.71	METRIC TONNE	150.00	2,506.50	
							CGST@2.5%	62.66
							SGST@2.5%	62.66
							TCS@01%	26.32
							NET AMOUNT	2,659.00

Amount in Words : Rupees Two Thousand Six Hundred Fifty-Nine Only



Prepared By

For TAMILNADU NEWSPRINT AND PAPERS LIMITED

29/03
Authorised Signatory

Whether tax is payable on reverse charge basis: No
E & O E

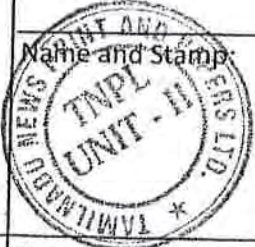
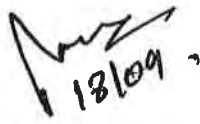


Handwritten signature

Copy]. To be forwarded by the sender to the State Pollution Control Board after signing all the seven copies

FORM 10

[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (including Phone no. and e-mail)	M/s. Tamilnadu newsprint and papers limited, Unit-II, Kagitha Nagar – 621306. Trichy Dt. Phone: 04332-2616000 Extn:6148 Mob:8300452508 E-Mail : storesdis.u2@tnpl.co.in
2	Sender's authorisation No.	24HFC45404642 dated 09/02/2024
3	Manifest Document No.	H-003-G 2024-2025
4	Transporter's name and address: (including Phone No. and e-mail)	(Truck / Tanker / Special Vehicle)
5	Type of Vehicle	LCV
6	Transporter's registration No.	TN 54 T 5699
7	Vehicle registration No.	TN 54 T 5699
8	Receiver's name and mailing address (including Phone No. and e-mail)	SRI LAKSHMI OIL REFINERIES, KARUR.
9	Receiver's authorisation No.	22HFC 44922346, Dt: 21/06/2022
10	Waste description	USED OIL IN BARREL
11	Total quantity	04.930 MT
12	Physical form	(Solid/Semi-Solid/Sludge Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	Nil
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorized, packed, marked, and labeled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
Name and Stamp:		Signature: Month Day Year
		 18/09, 2024
15 Transporter acknowledgement of receipt of Wastes		Month Day Year
Name and Stamp:		Month Day Year
Signature:		Month Day Year
16 Receiver's certificate for receipt of hazardous and other waste		Month Day Year
Name and Stamp:		Month Day Year
		 18/09, 2024



Tamil Nadu Newsprint and Papers Limited



(A Government of Tamil Nadu Enterprise)

Kagitha Nagar, Mondipatti, K.Periyapatti Post, Manapparai Taluk,
Tiruchirappalli District, Tamil Nadu, India - 621 306. Phone: 04332-261600 Cell: 94890 12793
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ENV/TNPCB/UNIT II/216

25.07.2024

**The Deputy Director General of Forests (C),
Ministry of Environment, Forest & Climate Change,
Integrated Regional Office,
1st Floor, Additional Office Block for GPOA, Shastri Bhawan,
Haddows Road, Nungampakkam, Chennai 600 006.**

Sub: TNPL Unit - II - Submission of Carbon Emission Study Report - reg

Ref: 1) Monitoring Report - F. No. EP/12.1/2019-20/1/TN/629, dated 06.05.2024 for
TNPL Unit - II Environmental clearance (EC) F.NO.J-11011/172/2017-IA-II (I)
dated 04.04.2019

2) Action taken Report submitted through E- mail dated 23.05.2024

With reference to the above, herewith we are submitting the Carbon Emission study report to comply with the below mentioned partially complied EC condition.

VII - Green Belt

Condition - (ii)

The project proponent (PP) submitted GHG emissions inventory of the plant. PP developed green belt covering 210.663 ha with 63 plant species in and around the plant premises. However it is suggested to carry out scientific study through reputed organisation for carbon sequestration including plantation.

Response


Complied

Carbon Emission and sequestration study including plantation for the year 2023 was carried out by M/s. Howest Global, Coimbatore and the report is attached herewith.

Thanking you

Yours Faithfully,

For TAMIL NADU NEWSPRINT AND PAPERS LIMITED,


(Girish A. Deshpande)

GENERAL MANAGER (R&D - QC)

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TNPL Unit - I - Paper Plant
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TNPL - MAKER OF BAGASSE BASED ECO - FRIENDLY PAPER

**CARBON EMISSION STUDY AND REDUCTION
THROUGH GREEN BELT DEVELOPMENT : TAMIL
NADU NEWSPRINT AND PAPERS LIMITED PATH TO
SUSTAINABILITY**



JULY - 2024

Acronyms

TNPL	Tamil Nadu Newsprint and Papers Limited
IPCC	Intergovernmental Panel on Climate Change
UNFCCC	United Nations Framework Convention on Climate Change
DEFRA	Department for Environment, Food and Rural Affairs
WRI	World Resource Institute
R&D	Research and Development
BAT	Best Available Techniques
EMS	Energy Management Systems
PPA	Power Purchase Agreements
RECs	Renewable Energy Certificates
FSC	Forest Stewardship Council
PEFC	Programme for the Endorsement of Forest Certification
AR	Assessment Year
tCO_{2e}	Tonnes of CO ₂ Equivalent
GHG	Green House Gases
GWP	Global Warming Potential
CO₂	Carbon dioxide
CH₄	Methane
NO₂	Nitrous oxide
HFC	Hydrofluorocarbon
PFCs	Perfluorocarbons
SF₆	Sulphur hexafluoride
CCS	Carbon Capture and Storage

Executive Summary

The objective of this study is to outline the Greenhouse Gas (GHG) emission interpretation of Tamil Nadu Newsprint and Papers Limited (TNPL) Unit II for the year 2023. The total GHG footprint of TNPL Unit II's operations for the calendar year 2023 amounts to 3,91,262.34 tonnes of carbon dioxide equivalent (tCO_{2e}). This study aims to provide a comprehensive analysis of the emissions from various sources and offers recommendations for reducing their carbon emission in accordance with Indian and Global guidelines.

This study aims to present a detailed GHG account for TNPL Unit II, focusing on the different sources of emissions categorized under Scope 1, Scope 2, and Scope 3. The analysis includes emissions from direct operations, indirect emissions from energy consumption, and other indirect emissions from activities such as purchased goods and services, transportation, waste generated, business travel, and employee commuting.

The study reveals that Scope 1 emissions, which include direct emissions from TNPL Unit II's operations, account for 3,54,727.16 tonnes of CO_{2e}, representing a significant 90.66% of the total emissions. Scope 2 emissions, which cover indirect emissions from purchased electricity, amount to 6,605.45 tonnes of CO_{2e}, making up 1.69% of the total. Scope 3 emissions, including all other indirect emissions, total 29,929.73 tonnes of CO_{2e} and constitute 7.65% of the overall emissions.

A detailed overview of Scope 3 emissions by category indicates that the majority stem from purchased goods and services (17,940.35 tonnes of CO_{2e}, or 59.94%), followed by downstream transportation (7,918.56 tonnes of CO_{2e}, or 26.46%), and upstream transportation (3,410.66 tonnes of CO_{2e}, or 11.40%). Other categories include waste generated in operations (25.09 tonnes of CO_{2e}, or 0.08%), business travel (9.97 tonnes of CO_{2e}, or 0.03%), and employee commuting (625.1 tonnes of CO_{2e}, or 2.09%).

In terms of carbon sequestration, the study reports that a total of 8,11,783 trees were planted in 263.67 hectares, resulting in an annual carbon sequestration

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value of 18,943.48 tonnes of CO₂ for 2023. The net carbon emission for CY 2023 is 3,72,318.83 tons of CO₂.

The primary advantage of this study is its comprehensive approach to accounting for all sources of GHG emissions, providing a clear picture of the environmental impact of TNPL Unit II. As per the study results findings, TNPL Unit II can significantly reduce its carbon footprint and contribute to global efforts to combat climate change, thus enhancing its sustainability and environmental stewardship.

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1.0. Introduction

Tamil Nadu Newsprint and Papers Limited (TNPL) Tiruchirappalli is a distinguished name in the paper manufacturing industry. Known for its commitment to excellence, sustainability, and innovation, TNPL has established itself as a leader in the production of newsprint, printing, and writing paper. This profile provides an overview of TNPL's history, legacy, and significant contributions to environmental sustainability.

The purpose of this assessment is to compile TNPL's Tiruchirappalli facility-based GHG emissions inventory, specifically for compliance reporting. The intended audience of this study includes company executives, shareholders, customers and other interested or affected parties.

1.1. History and Legacy

TNPL's vision is to be the market leader in manufacture of world-class eco-friendly paper adopting innovative technologies for sustainable development

TNPL Unit - I (Paper Plant)

Tamil Nadu Newsprint and Papers Limited (TNPL), an enterprise promoted by Government of Tamil Nadu, has precisely followed this adage. The Unit- I of TNPL at Kagithapuram, Karur district was commissioned in October 1985 with an installed capacity of 90,000 TPA of Newsprint/Fine Paper, in a single machine. Over a period of time, TNPL has added two more paper machines, besides upgrading the existing Paper machine. The increased production capacity of 400,000 TPA of writing and printing papers has made TNPL as one of the largest bagasse- a residue of sugar cane, as primary raw material, in the world. With an increased demand, the company has expanded the pulping capacity by way of installing new chemical hardwood line, upgrading the chemical bagasse pulp line and setting up a new deinked pulp line besides adopting ECF bleaching in all the chemical pulp lines. Simultaneously, the company has also increased the power plant capacity to meet the steam and energy requirement of the expanded mill.

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All the three modern high-speed paper machines are capable of producing variety of Writing and Printing papers and are equipped with state-of-the art automation to ensure consistent quality. The Company has earned a reputation as a pre-eminent player of manufacturing paper from bagasse having a world-wide creditability in the trade. Today, TNPL Unit-I is self-sufficient in terms of power and pulp.

TNPL Unit - II (Paper Board Plant)

TNPL thought of a green field project in a new location. As the Paper Board is recognized as a growing segment, TNPL thought it is prudent to foray into this market segment. Accordingly, a Paper Board project was conceived, and thus TNPL Unit-II emerged. A land area measuring 874.46 acres was acquired in Mondipatti, Chettichatram and K.Periyapatti Villages at Manapparai Taluk, Trichy District to set up Unit-II.

TNPL Unit-II was commissioned in January 2016, to produce 200,000 MT per annum high grade Paper Board for usage in pharmaceutical, health care, food, cosmetics and other consumer product industries, in various GSM ranging from 170 to 450.

In order to further strengthen its position in printing and writing (P&W) paper segment, TNPL is contemplating expansion of unit 2 by adding a P&W paper machine along with a new chemical hard wood pulp mill, chemical recovery, power plant and utilities in two phases. Total cost of the project is estimated at Rs.2520 Crores.

Under Phase – 1 of MEP, ECF (Elemental Chlorine Free) Chemical Wood Pulp Mill of capacity 1,40,000 tpa, Recovery Boiler to fire the Black Liquor solids of 1100 tpd, Lime Kiln of 250 tpd, Wastewater Treatment plant of capacity 15000m³/day and a TG of 20 MW capacity are commissioned in 2022.

A paper Machine/ Board Machine and a power boiler will be installed in Phase -2 of MEP.

1.2. Community and Social Responsibility

TNPL, as a responsible corporate citizen, has ingrained the philosophy of Corporate Social Responsibility deeply into its value system. The company is consistently taking up various community welfare initiatives for the benefit of the people living in neighbouring villages. In addition to the above, need based activities are also be carried out in peripheral areas, which can be the locations in other districts within Tamil Nadu.

TNPL's CSR policy aims to promote Economic, Social, Environmental and Cultural growth of the community at large in an equitable and sustainable manner. The Company's goal is to protect and nourish the interests of all its stakeholders and contribute to sustainable development. Ethics, Values and Transparency will underpin all its interactions within the community in which it operates. All its activities to sub serve social aspirations and the Nation's needs and it will be carried out with integrity, honesty, dignity and decorum.

TNPL's CSR activities cover different sectors such as, Improvement of drinking water system, Education, Medical and Public Health, Construction of Drainage walls, Road development and street lights, Environment and Agriculture, Career Development, Livestock and Cattle care, Development of Sports activities, Promotion of Tamil Literature, Art & Culture, Assistance for the Differently abled and Other Community Welfare Activities, etc.,

1.3. Vision for the Future

As TNPL moves forward, it remains committed to its core values of sustainability, innovation, and social responsibility. The company aims to expand its product offerings, enhance its production capabilities, and further reduce its environmental impact. TNPL's vision for the future includes increasing the use of renewable energy, advancing green manufacturing practices, and continuing to be a leader in the paper industry.

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1.4. Study Period

The GHG emissions inventory detailed in this study covers TNPL (Unit-II)'s GHG Emissions for one year, starting from January 1, 2023, to December 31, 2023. Referred to as Calendar Year "CY 2023".

1.5. Objectives of the study

This study aims at assessing and measuring TNPL's GHG emissions. It will not only ensure transparent accounting of the organization's emissions but will also elaborate on existing strategies and potential reduction plans and targets. The Carbon Accounting Study aims to:

- Quantify GHG emissions over the period Jan 2023 - Dec 2023
- Identify gaps and emissions reduction opportunities.
- Estimating carbon sequestration of TNPL plantation.
- Recommendations to reduce the present GHG emissions

2.0. Plantation in TNPL

In 2014, the area where the TNPL Tiruchirappalli plant now stands was barren and desolate. However, the inception of TNPL and its green initiatives have transformed more than 260 hectares of this land into a lush green area. This remarkable transformation is the result of diligent planning and sustained efforts in green belt development. Over the past nine years, TNPL has planted and meticulously maintained more than 65 species of plants which includes many native species, showcasing their commitment to environmental sustainability. This section provides an extended overview of the plantation efforts at the TNPL Tiruchirappalli plant, highlighting the various species planted and the areas covered.



Figure 1. Greenbelt area development in last seven years.

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2.1. Green Belt Development and Irrigation Scheme

The green belt development at TNPL Unit II is part of a comprehensive environmental strategy that includes the use of treated effluent for irrigation. The initiative covers several areas within the TNPL Tiruchirappalli plant, including the Captive Power Plant, Board Plant, and additional areas in Chettichatram and K. Periyapatti.

Captive Power Plant (Mondipatti)

Total Land Area: 16.187 hectares

Green Belt/Irrigation Area Developed: 6.465 hectares

Number of Trees Planted: 28,290

Board Plant (Mondipatti)

Total Land Area: 106.872 hectares

Green Belt/Irrigation Area Developed: 46.555 hectares

Number of Trees Planted: 100,590

Additional Areas in Chettichatram & K. Periyapatti

Total Land Area: 231.129 hectares (including 20.466 hectares for TNPL Unit II Township)

Green Belt/Irrigation Area Developed: 210.663 hectares

Number of Trees Planted: 682,903

2.2. Total Green Belt/Irrigation Area

To maintain and monitor the extensive green belt area effectively, it has been divided into 12 blocks, which are further subdivided based on species diversification and available space. Each block is equipped with a water sump where treated water is collected and distributed using a drip irrigation system. This system ensures efficient water usage and promotes healthy plant growth. This extensive green coverage not only enhances the aesthetic appeal of the region

but also contributes significantly to carbon sequestration and biodiversity. The field visit photographs were attached in Annexure – I – Field Visit Photos

These efforts have resulted in a thriving green belt that supports local wildlife, improves air quality, and serves as a carbon sink.

2.3. Biodiversity Conservation

An area of 300 acres of green belt plantation has been converted into a biodiversity conservation zone, with minimal human interaction, restoring the damaged ecosystems and enhancing the productivity and resilience of the local environment. Through systematic ecosystem restoration activities, key species such as the grey slender loris and peacock populations have witnessed progressive increases.

Grey Slender Loris Population:

- 14 (2019-20)
- 34 (2022-23)

Indian Peacock Population:

- 400 (2019-20)
- 570 (2022-23)

A recent study conducted by SSFRD organization revealed the presence of:

- Tree Species: 252
- Shrub Species: 68
- Herb Species: 169
- Grass Species: 48
- Medicinal Plant Species: 39
- Bird Species: 97
- Arthropod Varieties: 90
- Reptile Species: 18
- Mammal Species: 12

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TNPL Unit II were committed to maintaining the habitat and protecting the flora and fauna present in their premises, ensuring no hunting or poaching occurs. Additionally, they maintain 7 water bodies to shelter and provide roosting areas for bird species.

The Biodiversity Task Force and Biodiversity Management Committees regularly organize training and awareness programs, reaching 150 school students, 400 college students, and 300 members of the public.

3.0. GHG Accounting Framework and Methodology

3.1. GHG Accounting

GHG accounting is the processes of measuring the amount of GHGs generated, avoided, or removed by an entity, allowing it to track and report these emissions over time. The emissions measured are the seven gases mandated under the Kyoto Protocol and are to be included in national inventories under the United Nations Framework Convention on Climate Change (UNFCCC): carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF₆) and nitrogen trifluoride (NF₃). For ease of accounting, these gases are usually converted to and expressed as carbon dioxide equivalents (CO₂e).

According to the GHG Protocol Corporate Accounting and Reporting Standard,

- **Direct emissions** which are generated by sources owned or controlled by the reporting company.
- **Indirect emissions** occur as a consequence of the operations of the reporting company but that are generated by sources owned or controlled by another company.

Direct and indirect emissions are further categorized by scope and distinguished according to the source of the emissions and the activity in an organization's value chain. The three scopes defined by the GHG Protocol—scope 1, scope 2 and scope 3 are briefly described below and are illustrated in below Figure 1.



Figure 2. Schematic representation of carbon auditing scopes.

3.2. GHG Protocol

The Greenhouse Gas Protocol Initiative is a multi-stakeholder partnership of businesses, non-governmental organizations (NGOs), governments, and others convened by the World Resources Institute (WRI), a U.S.-based environmental non-governmental organization, and the World Business Council for Sustainable Development (WBCSD), a Geneva-based coalition of 170 international companies. Launched in 1998, the Initiative's mission is to develop internationally accepted GHG accounting and reporting standards for business and to promote their broad adoption.

The GHG Protocol Initiative comprises the GHG Protocol Corporate Accounting and Reporting Standard, which provides a step-by-step guide for companies to use in quantifying and reporting their GHG emissions. This GHG Protocol Corporate Standard provides standards and guidance for companies and other types of organizations preparing a GHG emissions inventory. It covers the accounting and reporting of the six greenhouse gases covered by the Kyoto Protocol—carbon dioxide (CO₂), Methane (CH₄), Nitrous oxide (N₂O), Hydrofluorocarbons (HFCs),

Perfluorocarbons (PFCs), and Sulphur hexafluoride (SF₆). The standard and guidance are designed with the following objectives:

- To help companies prepare a GHG inventory that represents a true and fair account of their emissions, using standardized approaches and principles
- To simplify and reduce the costs of compiling a GHG inventory
- To provide business with information that can be used to build an effective strategy to manage and reduce GHG emissions
- To provide information that facilitates participation in voluntary and mandatory GHG programs
- To increase consistency and transparency in GHG accounting and reporting among various companies and GHG programs.

3.3 Principles of Carbon Accounting

Selection of quantification methodology Calculation of Greenhouse Gas Emissions
GHG accounting and reporting practices are constantly evolving alongside advancements in the science of climate change.

The GHG Protocol advises that GHG emissions inventories be carried out in accordance with the following principles:

Relevance:

For an organization's GHG emissions inventory to contain information that users might need for making "informed" decisions. Accordingly, TNPL has identified the appropriate boundaries that reflect its business operations.

Completeness:

All relevant emission sources within the chosen inventory boundary have been accounted for in the GHG inventory so that a comprehensive and meaningful inventory of total emissions is compiled.

Consistency:

The GHG inventory has been compiled in a manner that ensures that the overall emissions estimates are consistent and comparable over time.

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Transparency:

All necessary information has been recorded, compiled, and analysed in a manner that enables internal reviewers and external verifiers to attest to its credibility.

Accuracy:

Data reported is sufficiently precise to enable us to make decisions with reasonable assurance and the reported information is credible. Uncertainties in measurements, recording, and calculations have been reduced as far as possible and practicable.

3.4. Evaluation of Black Liquor

Black liquor is a byproduct of the kraft process used in paper and pulp mills. It contains lignin and other organic materials from the wood, dissolved in an aqueous solution. Many paper mills use black liquor as a fuel in recovery boilers to generate steam and electricity, a practice which can significantly reduce reliance on fossil fuels.

Renewable Energy and Carbon Emissions

Renewable Classification: Black liquor is generally considered a renewable energy source because it originates from biomass (wood). Using black liquor for energy helps close the carbon loop, as the CO₂ released during combustion is approximately equal to the CO₂ absorbed by trees during their growth.

Emissions Accounting: While black liquor combustion does release CO₂, it's part of the short-term carbon cycle, unlike fossil fuels which release carbon sequestered millions of years ago.

Calculating Emissions from Black Liquor

When conducting carbon auditing, emissions from renewable biomass like black liquor are usually reported separately from fossil fuel emissions, often under a distinct category like biogenic CO₂ emissions. However, they are not typically included in the net GHG inventory used for regulatory or carbon trading purposes due to their renewable nature.

Renewable Energy Source:

Black liquor is derived from wood, a renewable resource. Trees absorb CO₂ from the atmosphere during growth, and using black liquor for energy releases this absorbed CO₂, making it part of the short-term carbon cycle.

Sustainability Practices:

- Using black liquor helps mills achieve sustainability by reducing reliance on fossil fuels and enhancing energy self-sufficiency.
- It supports waste-to-energy practices, turning a waste product into a valuable energy resource.

Regulatory Standards:

Most carbon accounting frameworks and standards, such as the GHG Protocol, recognize biogenic CO₂ emissions separately from fossil fuel emissions. These frameworks typically require reporting but not counting biogenic emissions in the same way as fossil fuel emissions for net GHG inventories.

Climate Impact:

While biogenic emissions do contribute to atmospheric CO₂, they are considered climate-neutral if the biomass is sustainably sourced and the carbon stocks are maintained or increased (e.g., through sustainable forestry practices).

Reporting:

Separate Reporting: In carbon audits, report emissions from black liquor combustion under a separate category of biogenic CO₂ emissions.

Exclusion from Net GHG Totals: Typically, exclude these emissions from the net GHG totals used for regulatory compliance or carbon trading, but provide transparent documentation and justification for the exclusion.

The TNPL's GHG inventory for FY2023 was compiled in accordance with:

- ISO 14064-1:2018: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals

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- ISO 14064-2:2019: Specification with guidance at the project level for quantification, monitoring and reporting of greenhouse gas emission reductions or removal enhancements &
- The GHG Protocol's 'A Corporate Accounting and Reporting Standard (Revised Edition).

4.0. Boundaries

4.1 Organizational Boundaries

The first step in the quantification of a corporate GHG inventory is the selection of reporting boundaries. The TNPL carbon footprint was calculated according to an operational control approach. In this approach, the company is taking ownership of 100% of emissions from facilities and offices over which the company has operational control and/or the authority to implement operational policies at the operations or offices. The facilities that were included within the GHG footprint calculation are as followed:

Table 1. Company location details

Site	Location	Address	Area (Acres)	Headcount
TNPL Unit – II	Trichy, India (10.551625, 78.579500)	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy Dt, Tamil Nadu, India Pincode – 621306.	282.67	729

4.2 Operational Boundaries

Under the ‘GHG Protocol’, emissions are divided into direct and indirect emissions. Direct emissions are those originating from sources owned or controlled by the reporting entity. Indirect emissions are generated as a consequence of the reporting entity’s activities, but occur at sources owned or controlled by another entity. The direct and indirect emissions are divided into three Scopes as found below.

Direct Emission

It includes all carbon emissions that can be directly managed by the organisation (direct GHG emissions).

This includes the emissions from the combustion of fossil fuels in mobile and stationary sources (e.g. owned or controlled boilers, power generators and vehicles).

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In-direct Emission

It includes indirect GHG emissions from the generation of purchased electricity, steam, heat or cooling purchased by the organisation from external energy providers. Also, includes other indirect emissions which arise along the value chain as a consequence of the reporting company's activities. These emission sources occur in another entity's operations.

Examples of emission sources from Scope 3 include the extraction and production of purchased materials and services, vehicles not owned or controlled by the reporting entity, and outsourced activities and waste disposal.

4.3 Global Warming Potentials

Global Warming Potential (GWP) is a measure of the climate impact of a GHG compared to carbon dioxide over a time horizon. GHG emissions have different GWP values depending on their efficiency to absorb longwave radiation and the atmospheric lifetime of the gas.

The GWP values used in GHG accounting include the six GHGs covered by the United Nations Framework Convention on Climate Change and Kyoto Protocol and blends from these, presented in below Table 5.

These are the GWPs based on the 'Intergovernmental Panel on Climate Change (IPCC) Fourth Assessment Report (AR5).

Table 2. Global warming potential for various green house gases.

GHG	GWP
Carbon dioxide	1
Methane	28
Nitrous oxide	265
Hydrofluorocarbon	See IPCC AR5
Perfluorocarbons	See IPCC AR5

Sulphur hexafluoride	23,500
----------------------	--------

(Source: IPCC AR5, 2014)

5.0. Data collection and Methodology

5.1 Data Collection

The activity data has been collected from Trichy location of TNPL. The questionnaire has been shared which accounts for data collection of Scope-1, Scope-2 & Scope-3 emissions.

5.2 Quantification Methodology

The process of identifying GHG emission sources is the first step involved in the quantification of GHG emissions. The GHG sources are then classified following the GHG Protocol – Corporate Standard. This is followed by gathering accurate activity data. Selection of nationally or internationally accepted emission factors is a crucial step, and these are available through DEFRA, IPCC, and National GHG Inventories for the calculation of GHG emissions.



Figure 3. Flowchart for GHG emission calculation.

5.3 Roles & Responsibilities

The quantification of TNPL Unit- II's carbon emissions was led by the Mr. C. Sathesh Rajkumar, AGM Projects, Under the guidance of Mr. S. Nandagopal GM (Projects), Mr. Girish. A. Deshpande Head (R&D), and Mr. Bhanu Prasad CGM Tiruchirappalli plant. TNPL's core sustainability team identified and collected activity data every month. A sustainability professional at TNPL was the technical support in this project and assisted with data collection. The group met periodically to discuss data collection and how it could be quantified and documented, to put forward and/or implement strategies that will reduce overall emissions. The management team collected activity data and collated by the sustainability team. This data was then provided to the sustainability consultants at Howest Global, who analysed, accounted for, calculated, forecasted, and reported TNPL's emissions for the CY of 2023.

5.4 Uncertainties of Assessment.

The data for GHG emissions from TNPL Unit -II has been derived directly from electricity, logbook/invoices/meter information of DG & Electricity Board, and MIS records and then conversion factors are employed to convert into GHG reporting metrics.

- Based on the accuracy of the activity data collected, the uncertainty associated can be approximately 5%.
- Uncertainty associated with estimating emission factors.

5.5 Quantification of Direct & Indirect Emissions

The following are the direct and indirect emissions from 100% of TNPL Unit -II's operations during CY 2023

Direct GHG Emission:

The GHG emissions from Bitumen & Wood/Wood Waste which used in boilers, Black Liquor which is used for generating electricity and Furnace Oil used for Furnace operation were considered as a direct emission.

The direct emissions for the year 2023 reveal significant contributions from various fuel sources, with total emissions amounting to 3,54,727.16 tCO_{2e}. Bitumen emerges as the largest emitter, contributing approximately 3,28,997.42 tCO_{2e}, which accounts for 92.74% of the total Scope 1 emissions. Furnace oil follows, contributing 24,876.08 tCO_{2e}, representing 7.01% of the total emissions. Diesel, despite a high consumption volume, contributes only 0.24% to the total direct emissions, amounting to 853.66 tCO_{2e}.

Direct emissions from owned or controlled sources, total 3,54,727.16 tCO_{2e}. Among the various fuel sources, bitumen stands out as the primary contributor, accounting for 92.74% of the total direct emissions. This significant percentage indicates a heavy reliance on bitumen as an energy source, which is highly carbon-intensive. Strategies to reduce bitumen consumption or replace it with lower-carbon alternatives could substantially decrease overall emissions.

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Indirect GHG Emission

The grid electricity purchased to run operations for the TNPL's plant is considered as indirect emissions.

Indirect emissions, which arise from the consumption of purchased grid electricity, amounted to 6,605.45 tCO_{2e} for TNPL Unit-II in 2023. This category represents 100% of the indirect emissions, indicating a substantial reliance on external electricity sources apart from electricity generated from boilers. Due to the reliance on black liquor as a potential energy source, the dependency on purchased grid electricity was much lower. This highlights the significant role that black liquor plays in meeting the energy demands of the industry. This dependence underscores the importance of enhancing energy efficiency and incorporating renewable energy sources to mitigate indirect GHG emissions.

Other Indirect GHG Emission

Employee commute, Business Travel, Waste Generation are considered under other indirect emissions for India operations. Value-chain emissions from Purchased Goods & Services, and Finished Goods are considered for TNPL's overall operations

Other indirect emissions, encompassing other indirect emissions from activities such as employee commute, business travel, waste generation, and value-chain activities, totalled 29,929.73 tCO_{2e}. The majority of these emissions originated from the purchase of goods and materials, which contributed 17,940.35 tCO_{2e}, or 59.94% of other indirect emissions. Significant contributors within this category included Calcium Carbonate (3,677.52 tCO_{2e}), Corn Starch (4,112.64 tCO_{2e}), and Caustic Soda (4,068.96 tCO_{2e}). Upstream transportation activities added 3,410.66 tCO_{2e} (11.39%), while downstream transportation activities contributed 7,918.56 tCO_{2e} (26.46%). Other sources of other indirect emissions, such as waste generated in operations, business travel, and employee commuting, had smaller individual contributions.

6.0. Carbon Sequestration

Carbon sequestration is the process of capturing and storing atmospheric carbon dioxide (CO₂) to mitigate climate change. This process can occur naturally through biological means, such as photosynthesis in plants, or through technological interventions, such as carbon capture and storage (CCS). The primary goal of carbon sequestration is to reduce the amount of CO₂ in the atmosphere, thus lowering the greenhouse effect and combating global warming.

6.1. Biological Carbon Sequestration

Biological carbon sequestration refers to the process by which CO₂ is captured and stored by natural biological processes. This form of sequestration is predominantly carried out by plants, soils, and oceans. Biological sequestration not only helps mitigate climate change but also enhances ecosystem health and biodiversity.

6.2. Calculations for carbon capture estimation

The study on carbon sequestration at TNPL Unit-II for 2023 highlights the environmental contributions made through diverse tree plantations. Spanning 263.69 hectares, the plantation encompasses a variety of species with significant carbon sequestration capabilities.

For this study, carbon capture capacities of various tree species were determined using documented values detailing kilograms of CO₂ captured per tree. Data collection involved sourcing information from reliable literature and research sources specific to each tree species. The number of trees planned for planting was collected from TNPL Unit II plantation department. To calculate the carbon captured, the carbon capture capacity (in kg CO₂/tree) for each species was multiplied by the number of trees planned for planting as per the empirical formula calculation method. Selection of tree species was based on their documented carbon capture capacities and suitability for local environmental conditions. The total carbon captured by all planned trees was computed by summing the carbon captured values for each species. Verification of calculations utilized standard conversion factors and constants available from environmental databases and forestry management guidelines. References for carbon capture capacities were primarily sourced from documented studies and forestry

Final Report

databases, ensuring accuracy and reliability in estimating the environmental impact and sustainability goals of the tree plantation project.

6.3. Estimated Carbon Sequestration

The carbon sequestration study conducted for various green belt, captive power plant, and board plant areas revealed significant insights into the potential of different tree species to capture carbon dioxide (CO₂).

The plantation in green belt area includes a range of tree species, each contributing differently to carbon capture. Hardwood trees, representing approximately 70% of the total trees planted, are known for their substantial carbon capture capacity. Significant contributors in this category include *Eucalyptus tereticornis*, *Casuarina hybrid*, and *Tectona grandis*. In terms of volume, this category includes about 4,78,032 trees, constituting 70% of the total. The remaining 30% comprises other category trees, such as *Cocos nucifera* and *Musa paradisiaca*, which, although valuable, have lower carbon capture capacities. This category includes about 2,04,871 trees.

In the green belt area, a diverse array of tree species was planted, with a total of 15,033.85 tons of CO₂ captured. Notable contributors included the *Casuarina hybrid* and *Casuarina junghuhniana*, capturing 674.33 and 154.86 tons of CO₂, respectively. Other significant contributors were *Eucalyptus tereticornis* (253.85 tons), *Dalbergia sissoo* (185.30 tons), and *Neolamarckia cadamba* (146.30 tons). These species showed remarkable efficiency in carbon sequestration, highlighting their suitability for large-scale planting in green belts to combat climate change. The substantial carbon capture by the *Casuarina* species underscores their rapid growth and high biomass production capabilities.

In the captive power plant area, the total carbon captured amounted to 765.86 kg of CO₂. *Eucalyptus tereticornis* and *Casuarina equisetifolia* were the top performers, capturing 262 kg and 440 kg of CO₂, respectively. The other species contributed modestly, with *Millingtonia hortensis* capturing 13 kg and *Terminalia catappa* 27 kg of CO₂. The relatively lower carbon capture in this area compared to the green belt suggests that the species planted here might not have been as effective in carbon sequestration or that the scale of planting was smaller.

The board plant area study demonstrated a substantial carbon capture of 3,143.77 tons of CO₂. *Casuarina equisetifolia* was again the most effective, capturing 1,463.88 tons of CO₂. *Eucalyptus tereticornis* also performed well, capturing 1,224.56 tons of CO₂. Other significant contributors included *Dalbergia sissoo* with 332.38 tons and *Acrocarpus fraxinifolius* with 20.25 tons. This area benefitted from the high density of effective species, showcasing the importance of species selection and planting density in maximizing carbon sequestration.

Overall, the studies across different areas indicate that strategic selection and planting of specific tree species can significantly enhance carbon sequestration efforts. *Casuarina* species, in particular, proved to be highly efficient, making them ideal candidates for large-scale afforestation and reforestation projects. The data underscore the critical role of green belts, captive power plants, and board plants in mitigating CO₂ emissions and advancing environmental sustainability. The findings advocate for the integration of carbon sequestration strategies into broader environmental management and policy frameworks to achieve long-term climate goals.

7.0. Conclusions

TNPL Unit-II's operations resulted in total GHG emissions of 3,91,262.31 tCO_{2e} for the calendar year 2023. Direct emissions accounted for the largest share at 90.66%, followed by Other indirect emissions at 7.65%, and indirect emissions at 1.69%. The predominance of direct emissions, primarily from Bitumen and Black Liquor, indicates significant areas for potential reduction through fuel optimization and alternative energy sources. The Indirect emissions from grid electricity highlights the critical need for energy efficiency improvements and renewable energy adoption. Lastly, the diverse sources of other indirect emissions suggest multiple opportunities for emission reductions across the supply chain and logistics.

The carbon sequestration efforts at TNPL Unit-II indicate a robust start, but achieving carbon neutrality requires a substantial enhancement of these efforts. By focusing on increasing tree plantation, particularly with hardwood species, and reducing emissions through renewable energy and efficiency measures, TNPL can make significant strides towards its sustainability goals.

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Acknowledgement

We would like to extend our heartfelt gratitude to the officials of Tamil Nadu Newsprint and Papers Limited (TNPL) for their invaluable time and cooperation during the course of this project.

Our special thanks go to Mr. C. Sathesh Rajkumar, AGM Projects, Mr. S. Nanda Gopal, GM Projects, Mr. Girish A. Deshpande, Head of the R&D Department, and Mr. Bhanu Prasad, CGM, for their exceptional support and guidance.

We would also like to express our sincere appreciation to the Purchase, Energy, HR, Store, Plantation and all other associated departments for their timely cooperation and assistance, which were instrumental in the successful completion of this study.

ANNEXURES

Annexure – I – Field Visit Photos



Figure 4. Visited TNPL fuel yard along with TNPL Officials.



Figure 5. Visited TNPL plantation breeding chamber along with TNPL officials.



Figure 6. Visited various plantation area along with TNPL Officials.



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ISO 14064-2:2019
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ISO 14066:2011
ISO 14067:2018

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**IMPLEMENTER & AUDITOR
CARBON FOOTPRINT MANAGEMENT**

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19.12.21

DATE

SIGNATURE

191220212001

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**PROCEEDINGS OF THE DIRECTOR OF
INDUSTRIAL SAFETY AND HEALTH, (FAC)**

CHENNAI

PRESENT: THIRU.K.JAGATHESAN, M.E.,

ABSTRACT

The Factories Act 1948 and the Tamil Nadu Factories Rules 1950 – The Tamil Nadu Control of Industrial Major Accident Hazardous Chemicals Rules 1989 – On Site Emergency Plan of **Tamil Nadu News Print and Papers Ltd, Unit –II, Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District 621 306 (TPL - 3208)** – Recorded.

R.Dis H2/5665/2022

Dated:27.07.2022

Read: Letter from Management Dated: 05.03.2022

ORDER:

The Management of **Tamil Nadu News Print and Papers Ltd, Unit –II, Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District 621 306 (TPL - 3208)** has prepared an 'On-Site Emergency preparedness plan' pertaining to their factory and submitted to this office.

Taking into consideration of the information furnished by the management in the 'On-Site Emergency Plan' and in exercise of the power conferred under section 41 B (4) of the factories Act 1948 and the Rule 13 (1) of Tamil Nadu control of Industrial major Accident hazardous chemicals Rules 1989 (as amended in 1994 and 2000) the Director of Industrial Safety and Health, Chennai hereby records the On-Site Emergency preparedness plan of the above said factory subject to the following conditions:

1. The On-Site Emergency Plan submitted by the management is recorded only for the conditions prevailing on the date of receipt of the On-Site Emergency Plan.
2. If there is any change in the layout of machinery, plant, process or any other modification are carried out a fresh On-Site Emergency Plan in accordance of such modifications should be prepared and submitted again for approval.

3. Full Scale On-Site Emergency mock drill should be conducted once in 6 months, involving the officials from the Directorate of Industrial Safety and Health, Fire and Rescue services department, Medical Department, Pollution Control Board and the adequacy of the emergency response measures, shall be assessed and the outcome of the mock drill shall be periodically reported to the Director office.

4. Emergency organization chart for General shift and after general shift has been prescribed in the On Site Emergency Plan. But the roles and responsibilities of key person furnished in the On Site Emergency Plan does not contain the shift wise emergency response measures to be taken.

Hence roles and responsibilities of the key person during General shift and after General shift shall be clearly assigned to each person and the details in this regard shall be furnished in the On Site Emergency Plan.

✓ 5. In the coal storage area, adequate lighting facility shall be provided.

6. Workers in coal handling area shall be periodically tested to diagnose lung infection as the workers ability to fight against the infection may be overwhelmed by inhaling coal dust, making the workers more susceptible to lung disease.

Record of periodical medical examination shall be maintained in Health register.

7. As hydrogen peroxide tends to accelerate when exposed to heat, runaway reactions are possible and hence temperature and pressure control system shall be monitored periodically. Further hydrogen peroxide shall be stored in well ventilated area.

✓ 8. Suitable Audio visual alarm shall be provided in the water Treatment plant to caution if the conductivity of water exceeds as the water is capable to pass electrical flow.

9. Safe work practices followed to carry out maintenance and other activity and critical review of each system shall be carried out. Also the scope and need for its improvement shall be made. Details in this regard shall be furnished in the On Site Emergency Plan.

✓ 10. Intensive training on operation of fire extinguishers shall be imparted to all workers including contract workers and ensure that trained persons are available during all shifts.

✓ 11. Hazardous area classification drawing shall be displayed for identification of hazardous areas.

Ravi
Ammanur

12. Thickness of the pipe line carrying chlorine shall be monitored. Also checklist shall be made available for the chlorine pipe line joints, material specification for change of pipe line and the same shall be monitored as a "corrosion protection measure".

Details on the compliance status shall be furnished in the On Site Emergency Plan.

- ✓ 13. Accident reporting system shall be developed including 'near miss' incident and periodical review on these incidents shall be carried out to avoid recurrence of such incidents.
- ✓ 14. Emergency escape route shall be clearly defined and marked with sign Boards at prominent places.
- ✓ 15. MSDS of all chemicals shall be made accessible upon request for reference.
- ✓ 16. Audibility of alarm system shall be reviewed periodically and ensure that siren sound is available to all areas of the plant.
- ✓ 17. Contract workers shall also be imparted training on emergency procedure to be followed during an emergency.


(S/d.K.Jagathesan)
Director (FAC),
Industrial Safety and Health,
Chennai-32.

To
The Occupier,
Tamil Nadu News Print and Papers Ltd,
Unit -II, Mondipatti Village,
K.Periyapatti Post, Manapparai Taluk,
Trichy District 621 306.

Copy to:

1. The Joint Director, Industrial Safety & Health, Trichy.
(He is requested to monitor the compliance of the conditions by the Management during his regular inspection.)
2. Additional Director, Industrial Safety & Health, Trichy.
3. Spare Copy
4. Stock File

//Forwarded by Order//


for Director (FAC),
Industrial Safety and Health,
Chennai -32.


27/07/2022.

CIN: U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-22660/2024-25 & 27.05.2024
Sample Number N-22660/24-25
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
 Trichy District - 621 306, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name NA
Sample Description HEAT STRESS
Sample Drawn on 21.05.2024 & 10.00 to 18.00
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/014
Equipment used for Sampling WBGT Meter S.no:231200479

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	LOCATION	METHOD	UNITS	RESULTS
1	BOARD MACHINE AREA	CTL/SOP/AIR/14 - 2016	°C	30.2


****Occupational Safety and Health Guidelines**

Work/rest regimen	Light	Moderate	Heavy
Continuous work	30.0°C	26.7°C	25.0°C
75% Work, 25% rest, each hour	30.6°C	28.0°C	25.9°C
50% Work, 50% rest, each hour	31.4°C	29.4°C	27.9°C
25% Work, 75% rest, each hour	32.2°C	31.1°C	30.0°C

*****END OF REPORT*****


Verified by

For Chennai Testing Laboratory Pvt Ltd


Authorised Signatory
G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

Page 1 of 1

TAMILNADU NEWSPIRINT AND PAPERS LIMITED, UNIT-II,
MONDIPATTI

Total number of Permanent Employees as on 31st Mar 2024

CATEGORY	UOM	STRENGTH		TOTAL
		MALE	FEMALE	
WORKMEN	Nos.	460	18	478
STAFF	Nos.	32	19	51
OFFICERS	Nos.	236	16	252
TOTAL	Nos.	728	53	781

Periodicity of Health Checkups for Employees :

Periodic Health checkups for employees are being carried out at the age of 40, 45, 50, 52, 54, 56, 58 and at completion of age 59.


SIGNATURE
DGM (HR)

OHC:

Aim of Occupational Health Centre (OHC) is mainly preventing occupational hazards at working place and Triage care center for injuries. We are also providing rehabilitation of accidental occupational injuries.



Objective:

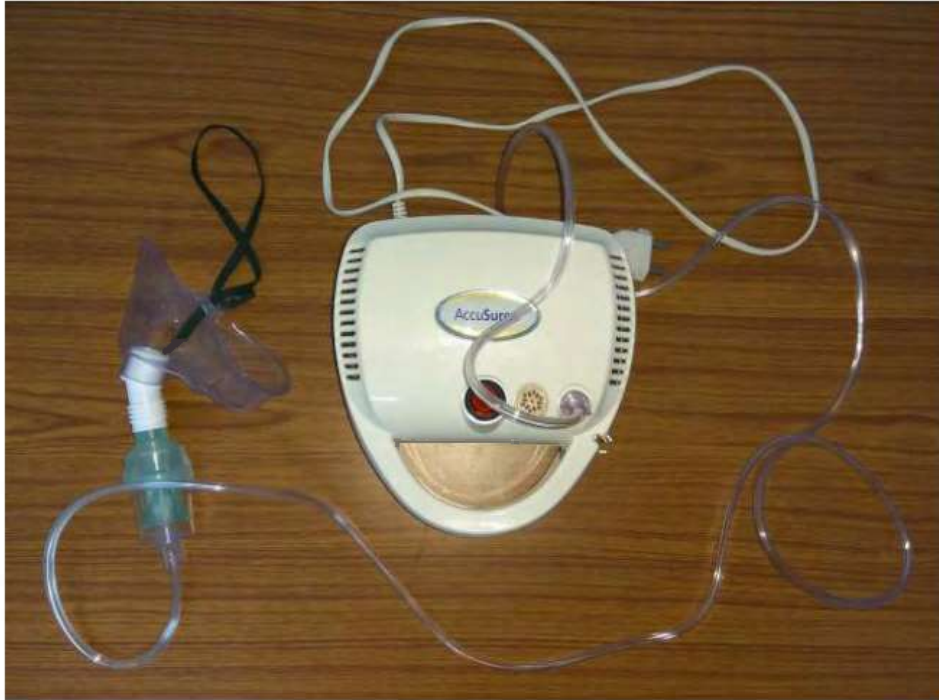
- i) To promote good health at working place.
- ii) To provide medical treatment & as well as minor surgical treatment like (Suturing & dressing)
- iii) Providing health education to the employees regarding (ear, eye safety etc..) during work time.
- iv) Providing first aid and other related training to the employees.

OHC & It's equipments:

OHC is managed by 4 doctors, 4 staff nurses. In our OHC we are having following equipments for patient purpose.

Nebulizer:

M/C used for treatment of COPD, Asthma, other pulmonary diseases. We are having one nebulizer. Nebulizer use O₂ , suspensions (dry) powder form.



ECG – is used to measure the position & size of chambers rate & regularity of heartbeats. It also used to detect cardiac diseases like (CAD, MI, AF, LVH) we are having 1 latest model ECG Machines.



Suction Apparatus:

A device used for removing liquids by suction liquids like (serous, mucus) from a body Cavity mainly (Abdomen & Oral cavity & Nasal cavity).

We are having 1 suction apparatus to handling any kind of accidental emergencies.



Infra Red Lamp:

Mainly used for pain over the body parts, mainly Neck pain & joint pain & neuropathic pain. Arthritic pain , we are having one Infra red lamp used for acute & chronic pain.



Otoscope:

This device mainly used to see the ear for any (perforation of TM, any kind of foreign body also detect by this device. This instrument used to mainly see the outer & middle ear complaints, we are having one Otoscope device with help of device we can remove the FB also. Aurul toileting also done.



BP Apparatus:

It is mainly used to measure the systolic & diastolic blood pressure of the person. It used detect hypertension & hypotension for further line of management. We are having 2 BP Apparatus.



Pharmacy:

The OHC has well stocked medicine storage room. We are having wide range of drugs, suture materials, emergency drugs like (Atropin, Hydrocortisone, Adrenaline) etc., we are having IV fluids for treatment of dehydration & hypotension & AGE (Diarrhoea).



Autoclave:

This device used to sterilize the cotton & gauze piece & suturing instrument like (needle holder, Artery forceps, toothed forceps. we are having one Autoclave machine.



O₂ Cylinder:

We are having two O₂ cylinder, one in our OHC ward another one in our Ambulance used for any head injury person & as well as breathing difficulty person. When SPO₂ decrease 95% . we will use this O₂ cylinder machine.



Ambulance:

A vehicle used for transportation of sick (or) injured persons from the injured place to OHC for further line of management for an injury (or) illness. We are having one Ambulance with O₂ cylinder.





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Master Health Check up Summary

NAME: Mr. Elanchozhan R TNPL 3928

Age : 40 years Sex : Male

UMR.No: 0308827

Consulting Date :16.12.2023

SUMMARY OF HISTORY : Mr. Elanchozhan R TNPL 3928 , 40 years old male came for master health checkup.

DIAGNOSIS

- Dyslipidemia

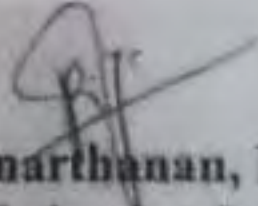
PRESCRIPTION

- CAP. LUMIA 60k 1 week x 8 weeks.

ADVICE

- Life style modification.

Transcribed by Sathyapriya. S


Dr. P. Janarthanan, MBBS, MD (Cardiology)
PG.DIP Endocrine & Diabetes (RCP London)



भारत सरकार

भारत सरकार /Government of India

वाणिज्य और उद्योग मंत्रालय/Ministry of Commerce & Industry

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन /Petroleum & Explosives Safety Organisation (PESO)

A और D - विंग, ब्लॉक 1-8, दूसरा तल, शास्त्री भवन, 26 हज्जोडस रोड, नुंगम्बक्कम
चेन्नई - 600006

A & D - Wing, Block 1-8, IInd Floor, Shastrl Bhavan, 26 Haddous Road, Nungambakkam, Chennai - 600006

ईमेल /E-mail : jtccechennai@explosives.gov.in

दूरभाष /Phone/Fax No : 044 -
28287118,28281023,28281041,28287119/28284848

दि/Date : 24/05/2022

सं /No : G/SC/TN/06/3229(G89479)

सेवा में /To,

M/s. M/s. TAMILNADU NEWSPRINT AND PAPERS LIMITED UNIT,
MONDIPATTI, K.PERIYAPATTI POST.,
Village/Town: Mondipattu,
City: Manapparal,
Taluka: Manapparal,
District: TIRUCHIRAPPALLI
State: Tamil Nadu
Pin : 621306

विषय /Sub : Survey No: 2/1,2,6/1,2,3, mondipatti, Village/Town: Mondipatti, City: Tiruchirappalli, Taluka: Manapparal, District: TIRUCHIRAPPALLI, State: Tamil Nadu, Pin : 621306 - में सिलेंडरों में CHLORINE, SULPHUR DIOXIDE गैस का भंडारण- गैस सिलेंडर नियम, 2016 के फॉर्म एफ के अंतर्गत - निरीक्षण एवं अनुज्ञप्ति का पुर्नआंकन करने के बारे में/Storage of CHLORINE, SULPHUR DIOXIDE in cylinders at Survey No: 2/1,2,6/1,2,3, mondipatti, Village/Town: Mondipatti, City: Tiruchirappalli, Taluka: Manapparal, District: TIRUCHIRAPPALLI, State: Tamil Nadu, Pin : 621306 - cover under Licence G/SC/TN/06/3229(G89479) granted in Form F of Gas Cylinders Rules, 2016 - Inspection & Endorsement of licence regarding.

महोदय/Sir(s),

कृपया इस कार्यालय के दि. 13/04/2022के ज्ञापन सं G/SC/TN/06/3229(G89479) और दि. 13/04/2022 को उपरोक्त परिसर का अधोहस्ताक्षरकर्ता/ इस कार्यालय के अधिकारी द्वारा को किए गए निरीक्षण का अवलोकन करें/ Please refer to the this office Memo No : G/SC/TN/06/3229(G89479) dated 13/04/2022 and inspection of the above premises by the undersigned /an officer of this office on 13/04/2022

The subject licence is returned herewith duly endorsed. The receipt of the licence may please be acknowledged.

कृपया नोट करें कि गैस सिलेंडर नियम, 2016 के नियम 55(5) के अनुसार, अनुज्ञप्ति के पुनः नवीकरण हेतु आवेदन this office कार्यालय को इस अनुज्ञप्ति की वैधता समाप्त होने के पूर्व (दिनांक 30 सितम्बर 2026 को या इससे पूर्व) जमा कर दें। दिनांक 30 सितम्बर 2026 के पश्चात परंतु दिनांक 30 सितम्बर 2027 से पूर्व प्राप्त नवीकरण आवेदन, गैस सिलेंडर नियम, 2016 के नियम 55(7) के अनुसार विलंब शुल्क के साथ ही विचाराधीन होगा। दिनांक 30 सितम्बर 2027 तक कोई नवीनीकरण आवेदन प्राप्त नहीं होने की स्थिति में यह अनुज्ञप्ति स्वतः निरस्त हो जाएगी। /Please note that your application for further renewal should reach this office on or before 30th September, 2026 along with all the documents as required under Rule 55(5) of Gas Cylinders Rules, 2016. Application for renewal of licence received after 30th September, 2026 but not later than 30th September, 2027 be considered only with penalty fee vide rule 55(7) (a)(b) of said Rules. The licence will automatically expire if no application is received upto 30th September, 2027.

भवदीय /Yours faithfully,

(डा. ए. शेख हुसैन)
(Dr. A SHEIKH HUSAIN)
विराट/Chief Controller

Controller of Explosives
कृते संयुक्त मुख्य विस्फोटक नियंत्रक
For Jt. Chief Controller of Explosives
चेन्नई/Chennai

[अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क तथा अन्य विवरण के लिए कृपया हमारी वेबसाइट <http://peso.gov.in> देखें।]
(For more information regarding status, fees and other details please visit our website <http://peso.gov.in>)

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Digitally signed by A SHEIKH HUSAIN
Reason: Licence No : G/SC/TN/06/3229
Location:South Circle Office(G89479)
Date:2022.05.24 12:32:03 +05'30

Endorsed after inspection



फॉर्म फ / FORM F
जी. सी. ई. एस. नियम 50, 51 और 54 देखें / (See Rules 50, 51 and 54)

Licence to store compressed gas in cylinders

वार्षिक शुल्क / Fee Rs. 2000/- per year

अनुज्ञप्ति संख्या / Licence No. : G/SC/TN/06/3229(G89479)

M/s. TAMILNADU NEWSPRINT AND PAPERS LIMITED UNIT-I, MONDIPATTI, K.PERIYAPATTI POST,, City: Manapparai, Taluka: Manapparai, District: TIRUCHIRAPPALLI, State: Tamil Nadu, Pin: 621306 को नीचे वर्णित और रेखांक संख्या G/SC/TN/06/3229(G89479) dated 13/04/2022 में दर्शित किए गए अनुज्ञाप परिसर में, भारतीय विस्फोटक अधिनियम, 1884 (1884 का 4) और उसके अधीन बनाए गए नियमों के उपबंधों तथा इस अनुज्ञप्ति की अन्य शर्तों के अधीन रहते हुए, केवल संपीड़ित गैस से भरे सिलेण्डरों को रखने के लिए ही विधिमान्य अनुज्ञप्ति दी जाती है। /

Licence is hereby granted to M/s. TAMILNADU NEWSPRINT AND PAPERS LIMITED UNIT-I, MONDIPATTI, K.PERIYAPATTI POST,, City: Manapparai, Taluka: Manapparai, District: TIRUCHIRAPPALLI, State: Tamil Nadu, Pin: 621306 valid only for the possession of cylinders filled with compressed gas in the licensed premises described below and shown in the plan No G/SC/TN/06/3229(G89479) dated 13/04/2022 subject to the provisions of the Explosives Act, 1884(4 of 1884) and the Rules made thereunder and to the further conditions of this licence.

यदि अनुज्ञप्ति 30 सितम्बर 2026 तक प्रवृत्त रहेगी। / The Licence shall remain in force till the 30th September 2026.

For Jt. Chief Controller of Explosives

Chennai

कृते संयुक्त मुख्य विस्फोटक नियंत्रक
चेन्नै

April 13, 2022

अनुज्ञाप परिसर का विवरण और अवस्थिति / DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

निम्नलिखित विवरण के अनुसार सिलेण्डरों में भरी गैस रखने के लिए अनुज्ञाप परिसर, जिसकी अभिन्यास सीमाओं और अन्य विशिष्टियों को संलग्न अनुमोदित रेखांक सं G/SC/TN/06/3229 dated April 13, 2022 में दिखाया गया है, में अवस्थित है और जिसमें एक भण्डारण शेड है। / The licensed premises, the layout boundaries and other particulars of which are shown in the attached approved plan No. G/SC/TN/06/3229 dated April 13, 2022 are situated at Mondipatti and consists of a storage shed for possession of the gas contained in cylinders as described here under:

	गैस का प्रकार /Type of Gas	मात्रा /Quantity
a)	विषैले/ Toxic	CHLORINE - 76 Nos., SULPHUR DIOXIDE - 24 Nos.
b)	गैर विषैले और गैर ज्वलनशील /Non-Toxic and Non Flammable	--NIL--
c)	गैर विषैले और ज्वलनशील /Non-Toxic and Flammable	--NIL--
d)	घुलित एसिटिलीन गैस Dissolved Acetylene Gas	--NIL--
e)	एलपीजी के अलावा गैर विषैले और ज्वलनशील द्रवित गैस /Non-Toxic & Flammable liquefiable gas other than LPG	--NIL--
f)	एलपीजी/ Liquefied Petroleum Gas	--NIL--

और प्लान संख्या SurveyNo : 2/1,2,6/1,2,3 गल्ली का नाम गांव : Mondipatti या नगर पुलिस थाना : Manapparai जिला : TIRUCHIRAPPALLI, राज्या : Tamil Nadu. / and is situated at SurveyNo : 2/1,2,6/1,2,3 Village/Town : Mondipatti Police Station : Manapparai District : TIRUCHIRAPPALLI, State: Tamil Nadu.

नवीकरण के पृष्ठांकन के लिए स्थान / SPACE FOR ENDORSEMENT OF RENEWALS

	नवीकरण की तारीख/Date of Renewal	समाप्ति की तारीख/Date of Expiry	अनुज्ञप्ति प्राधिकारी के हस्ताक्षर/Signature and stamp of the licensing authority
इस अनुज्ञप्ति को, विस्फोटक अधिनियम, 1884 या उसके अधीन बनाए गए गैस सिलेण्डर नियम, 2016 के उपबंधों या इस अनुज्ञप्ति की शर्तों का उल्लंघन न होने की दशा में, फीस में कोई छूट दिए बिना दस वर्ष तक नवीकृत किया जाएगा। / This licence shall be renewable without any concession in fee for ten years in the absence of contravention of the provision of the Explosives Act, 1884 or Gas Cylinders Rules, 2016, framed thereunder or of the conditions of the licence			

यदि अनुज्ञाप परिसर इससे उपाबद्ध विवरण और शर्तों के अनुरूप नहीं पाया जाता है और जिन नियमों और शर्तों के अधीन यह अनुज्ञप्ति दी गई है, उनमें से किसी का उल्लंघन होता है तो यह अनुज्ञप्ति रद्द की जा सकती है और अनुज्ञप्ति का धारक कारावास से, जिसकी अवधि दो वर्ष तक की हो सकेगी, या जुर्माने से, जो तीन हजार रुपये तक का हो सकेगा, या दोनों से, दण्डनीय भी होगा। / This licence is liable to be cancelled if the licenced premises are not found conforming to the description and conditions attached hereto and contravention of any of the rules and conditions under which this licence is granted and the holder of this licence is also punishable with imprisonment for the term which may extend to two years or with fine which may extend to three thousand rupees or with both.

ऐसा सिस्टम नियम, 2016 के अधीन विषाक्त गैस कंटेनरों / सिलेंडर के भरण एवं भंडारण के लिए अतिरिक्त शर्तों/ADDITIONAL CONDITIONS FOR FILLING AND/OR STORAGE OF TOXIC GASES CONTAINERS/CYLINDERS UNDER GAS CYLINDERS RULES, 2016.

1. परिसर में परिवर्तन स्विच के साथ एक प्रभावशाली अलार्म प्रणाली की व्यवस्था की जाएगी। आपात स्थिति में, परिसर में स्विच ऑपरेट करने पर नियंत्रण कक्ष में अलार्म गूना जा सकेगा।/An efficient alarm system with operating switch in the premises shall be provided. In case of emergency, the alarm can be heard in the control room by operating the switch in the premises.
2. विषाक्त गैस के रिसाव की आपात स्थिति के लिए एक आपदा प्रबंधन योजना तैयार की जाएगी। योजना द्वारा संबंधित अधिकारी की जिम्मेदारी तय की जाएगी, जिन्हें रिसाव की स्थिति में विषाक्त गैस उपकरणों को संचालित करने के विभिन्न पहलुओं के बारे में प्रशिक्षित किया जाएगा।/A Disaster Management Plan for operation in case of emergency of leakage of toxic gas shall be prepared. The plan shall fix responsibility on the concerned officers who shall be trained in the different aspects of handling toxic gas equipments in case of leakage.
3. आपात स्थिति में उपयोग के लिए परिसर में या इसके पास एक या अधिक पर्याप्त दबाव के हायड्रंट पॉइंट्स उपलब्ध कराए जाएंगे।/One or more Hydrant point(s) with adequate pressure shall be provided in or near the premises for use in emergency.
4. परिसर में कम से कम दो आत्म निहित श्वास तंत्र (सेल्फ कंटेंट ब्रीदिंग अपैरेटस) और दो कनस्टर प्रकार के गैस मास्क सहज सुलभ स्थान में रखे जाएंगे।/At least two numbers self contained breathing apparatus and two Canister type Gas Masks shall be kept in the premises in a readily accessible location.
5. परिसर में या इसके पास विषाक्त गैस के रिसाव का पता लगाने के लिए पोर्टेबल उपकरण उपलब्ध कराया जाएगा।/Portable devices for detection of toxic gas leakage shall be made available in or near the premises.
6. हवा की दिशा निर्धारित करने के लिए उपयुक्त स्थान पर एक वातदिग्दर्शक-मुर्ग उपलब्ध कराया जाएगा जिससे विषाक्त गैस के रिसाव की स्थिति में श्रमिकों को हवा के विरुद्ध दिशा में स्थानांतरित किया जा सके।/A weathercock shall be provided at a suitable location for determining wind direction so that in case of leakage of toxic gas, the workers can move against wind direction.
7. आपातकारी के पास विभिन्न उपकरण और औजार, जैसे सिलेंडर और टनरों के लिए वाल्व हुड, सिलेंडर वाल्व रिसाव के लिए चैन और योक असेंबली के लिए चेन और योक असेंबली सहित उपकरणों से मिलकर बनी आपातकालीन किट उपलब्ध होनी चाहिए।/Emergency kit consisting of various equipments and tools including valve hood assembly for cylinders and tonners, clamp for cylinder valve leaks and chain and yoke assembly for tonner valve leaks shall be available with the licensee.
8. रिसाव के बंद होने/लॉक-अप के मामले में, परिसर में कोई विषाक्त गैस युक्त सिलेंडर नहीं रखा जाएगा।/In case of closure/cock-up of the filling plant, no cylinder containing toxic gas shall be retained in the premises.
9. रिसाव के मामले में विषाक्त गैस के निष्प्रभावीकरण के लिए पर्याप्त सुविधाएं प्रदान की जाएगी।/Adequate facilities for neutralization of toxic gas shall be provided in case of leakage.
10. विषाक्त गैस परिसर में उचित सिलेंडर लदान (लोडिंग)/माल उतराई (अनलोडिंग) और हथलाई (हैंडलिंग) की व्यवस्था की जाएगी।/Proper cylinder loading, unloading and handling arrangements shall be made in the toxic gas premises.

for Jt. Chief Controller of Explosives
South Circle Office
कृते संयुक्त मुख्य विस्फोटक नियंत्रण
चेन्नै

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भारत सरकार/Government of India
वाणिज्य और उद्योग मंत्रालय/Ministry of Commerce & Industry
पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो) /Petroleum & Explosives Safety Organisation (PESO)
A और D - विंग, ब्लॉक 1-8, दूसरा तल, शास्त्री भवन, 26 हड्डोउस रोड, नुंगम्बक्कम
चेन्नै- 600006
A & D - Wing, Block 1-8, IInd Floor, Shastri Bhavan, 26 Haddous Road, Nungambakkam,
Chennai - 600006

ईमेल/E-mail : jtccochoennai@explosives.gov.in

फोन / फ़ैक्स नंबर./Phone/Fax No : 044 -
28287118,28281023,28281041,28287119/28284848

दिनांक/Dated : 11/07/2022

संख्या/No : S/SC/TN/03/212(S100682)

To,

M/s. M/s. TAMIL NADU NEWSPRINT & PAPERS LTD,
67 ,MOUNT ROAD,
GUINDY,
Chennai,
Taluka: Chennai,
District: CHENNAI,
State: Tamil Nadu
PIN: 600032

विषय/Sub : Plot No, UNIT-II, MONDIPATTI, MONDIPATTI, Manapparai, Taluka: Manapparai, District: TIRUCHIRAPPALLI, State: Tamil Nadu, PIN: 621306 स्थित OXYGEN, गैस के संपीड़ित पात्र / पात्रों में भंडारण के लिए स्थिर एवं गतिशील दाब पात्र (अज्वलित) नियम, 2016 के अधीन स्वीकृत अनुज्ञप्ति संख्या S/SC/TN/03/212 अनुज्ञप्ति निरीक्षण एवं पृष्ठांकन के बारे में/Storage of OXYGEN gas in pressure vessels at Plot No, UNIT-II, MONDIPATTI, MONDIPATTI, Manapparai, Taluka: Manapparai, District: TIRUCHIRAPPALLI, State: Tamil Nadu, PIN: 621306 - Licence No : S/SC/TN/03/212 grant in form LS-1A of SMPV(U) Rules, 2016- Endorsement of Licence Regarding

भवदीय/Sir(s),

कृपया Jt. Chief Controller of Explosives South Circle Office's के ज्ञापन सं S/SC/TN/03/212 (S100682) दिनांक 23/06/2022 का संदर्भ और अधोहस्ताक्षरता/ कार्यालय के अधिकारी द्वारा उपरोक्त परिसरों के किए गए निरीक्षण दिनांक 06/07/2022 का संदर्भ ग्रहण करें/ Please refer to the Jt. Chief Controller of Explosives South Circle Office's Memo No. S/SC/TN/03/212 (S100682) Dated 23/06/2022 and inspection of the above premises by an officer of this Department on 06/07/2022 .

इस विषय लाइसेंस के साथ इसे पृष्ठांकन किया जाता है। लाइसेंस की प्राप्ति कृपया स्वीकार कर लें।/The subject licence is forwarded herewith duly endorsed. The receipt of the licence may please be acknowledged.

देर शुल्क से बचने के लिए एसएमपीवी (यू) नियम, 2016 के नियम 55 के अंतर्गत अनुज्ञप्ति के पुनः नवीकरण हेतु आवेदन, इस कार्यालय को इस अनुज्ञप्ति की वैधता समाप्त होने के पूर्व (दिनांक 30 सितम्बर 2026 को या इससे पूर्व) जमा कर दें / Please note that your application for further renewal shall reach this office on or before 30th September, 2026 along with all the documents required under Rule 55 of the SMPV(U) Rules, 2016 to avoid late fee.

भवदीय/Yours faithfully,

((मनोज एन नंदनवार)
(Manoj N Nandanwar))
उप विस्फोटक नियंत्रक
Dy. Controller of Explosives
कृते संपुक्त मुख्य विस्फोटक नियंत्रक
For Jt. Chief Controller of Explosives
चेन्नै/Chennai

(For more information regarding status, fees and other details please visit our website <http://peso.gov.in>)

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Digitally signed by Manoj N Nandanwar
Reason: Licence No : S/SC/TN/03/212
Location:South Circle Office (S 100682)
Date:11-07-2022 10:40:49 AM



निरीक्षण द्वारा प्रमाणित
Endorsement

FORM LS-1A/प्ररूप - एलएस-1क

(See Rules 50, 51, 54 and 55)/(नियम 50, 51, 54 और 55 देखें)

Licence to Store Compressed gas in pressure vessel or vessels
दाब पात्र या पात्रों में संपीड़ित गैस भण्डारकरण के लिए अनुज्ञप्ति

स.मु.वि.नि.ब.अ. चेन्नै
C.C.E, S.C. Chennai

अनुज्ञप्ति सं/Licence No. : S/SC/TN/03/212(S100682)

फीस रुपए/Fee Rs. 50000/- per year/प्रति वर्ष

Licence is hereby granted to M/s. TAMIL NADU NEWSPRINT & PAPERS LTD, 67, MOUNT ROAD, GUINDY, Chennai, Taluka: Chennai, District: CHENNAI, State: Tamil Nadu PIN: 600032 valid only for the storage of compressed gas in 2 Number(s) of pressure vessels as indicated below in the licensed premises described below and shown in the plan No.S/SC/TN/03/212(S100682) dated 23/06/2022 subject to the provisions of the Indian Explosives Act, 1884 (4 of 1884) and the rules made thereunder and to the further conditions of this licence.

श्री M/s. TAMIL NADU NEWSPRINT & PAPERS LTD, 67, MOUNT ROAD, GUINDY, Chennai, Taluka: Chennai, District: CHENNAI, State: Tamil Nadu PIN: 600032 को नीचे वर्णित अनुज्ञप्त परिसरों में और रेखांकन संख्या S/SC/TN/03/212(S100682) dated 23/06/2022 में भारतीय विस्फोटक अधिनियम, 1884 (1884 का 4) और उसके अधीन बनाए गए नियमों तथा इस अनुज्ञप्ति की अन्य शर्तों पर 2 दाब पात्र / पात्रों में संपीड़ित गैस के भण्डारण के लिए अनुज्ञप्ति मंजूर की जाती है।

यह अनुज्ञप्ति 30 सितंबर 2026 तक प्रवृत्त रहेगी।

The Licence shall remain in force till the 30th September 2026.

Vessel No./वैसल नंबर	Name of Gas/ गैस का नाम	State of Gas/ गैस की स्थिति	Water Capacity in cubic meter/ जल क्षमता (घ.मी.)	Max. working Pre.(kg/cm ²)/ अधिकतम वर्किंग प्रेशर	Quantity Granted in kgs(Liquidified gas)/किलोग्राम में जारी मात्रा (लिक्विफाईड गैसेस)
22860-150-0063	OXYGEN	Gaseous	80.00	27.5	0
22860-150-0064	OXYGEN	Gaseous	80.00	27.5	0
Total Water capacity			120.00		

June 23, 2022

For Jt. Chief Controller of Explosives
SC, Chennai

कृते संयुक्त मुख्य विस्फोटक नियंत्रक
उर्फ

DESCRIPTION AND LOCATION OF THE LICENSED PREMISES/अनुज्ञप्त परिसर का विवरण और अवस्थिति

The licensed premises, the layout boundaries and other particulars of which are shown in the attached approved plan No. S/SC/TN/03/212 dated 23/06/2022 are situated at Manapparai(MONDIPATTI) and consists of 2 Number(s) vessel(s) for storage of :/अनुज्ञप्त परिसर, प्रदर्शित सीमा और अन्य विवरण जो संलग्न अनुमोदित रेखाचित्र क्र.S/SC/TN/03/212 दिनांक 23/06/2022 में दर्शाए गए हैं Manapparai(MONDIPATTI) पर स्थित हैं और इसमें 2 वैसल सम्मिलित हैं।

a) Flammable/Corrosive/Toxic Gases :/ज्वलनशील / संक्षारक / विषैली गैसों;

b) Non-Toxic Gases :/अविषैली गैसों : OXYGEN

and is situated at PlotNo : UNIT-II Village/Town :Manapparai(MONDIPATTI) Police Station : mannapparai District TIRUCHIRAPPALLI, State: Tamil Nadu, Pin : 62.

/प्लॉट संख्या PlotNo : UNIT-II गांव या नगर :Manapparai(MONDIPATTI) पुलिस थाना mannapparai जिला TIRUCHIRAPPALLI राज्य Tamil Nadu, Pin : 62 में स्थित है।

SPACE FOR ENDORSEMENT OF RENEWALS/नवीकरण के पृष्ठांकन के लिए स्थान






	Date of Renewal/ नवीकरण की तारीख	Date of Expiry/ अनुज्ञप्ति की समाप्ति की तारीख	Signature and stamp of the licensing authority/अनुज्ञापन प्राधिकारी के हस्ताक्षर और कार्यालय की मुद्रा
This licence shall be renewable without any concession in fee for three years in the absence of contravention of the			



rule 70 and every facility shall be afforded to such officer for ascertaining that the rules and the conditions of this licence are duly observed.

19. If the licensing authority calls upon the holder of a licence by a notice in writing to execute any repairs in the licensed premises which are, in the opinion of such authority, necessary for the safety of the premises, the holder of the licence shall execute the repairs within such period as may be specified in the notice.
20. Every vessel shall be outside any building and shall be supported on well designed calculations.
21. No artificial light capable of igniting flammable vapour shall at any time be present within nine meters of the vehicle and the loading or unloading points during the transfer of the compressed gas and no person engaged in such transfer shall smoke.
22. All electrically equipment such as motors switches, starters used for transfer of liquefied petroleum gas shall be of flameproof construction conforming to IS/IEC 60079-1 to 11 or of a type approved by the Chief Controller.
23. Smoking, naked lights, lamps, source of fire or any other stimulant capable of igniting flammable vapours shall not be allowed inside the premises. Every person managing or employed on or in connection with licensed premises shall abstain from any act whatsoever which tends to cause fire or explosion and which is not reasonably necessary and to the best of his ability, shall prevent any other person from doing such act.
24. Any accident, fire, explosion or untoward incident occurred within the licensed premises shall be immediately reported to the Chief Controller of Explosives, Controller, nearest police station and District Magistrate by quickest mode of communication.

For The Jt. Chief Controller of Explosives, South Circle, Chennai

CER Expenditure from April' 2024 to Sep' 2024

S.No	Activity	Actual Expense in Rs.	Photo
Health care and Medical service			
1	<p>Organised a special Eye screening camp in association with Aravind Eye Hospital, Madurai, for the benefit of public who are living in the villages around TNPL Unit -II, at Panchayat Union Middle school, Maravanur on 24th August 2024.</p> <p>Beneficiaries:</p> <p>Total Ops. = 245 Undergone IOL surgery = 110 and Provided free spectacles = 48 Persons.</p>	80855.00	
Socio Economic Development and Security			
2	Renovation of community hall at Chithanatham village.	2,29,848.00	
3	Constructed new passengers shelter at Pathiripatti Bus stop	4,25,800.00	
4	Sponsored Rs. 5 Lakhs to Trichy District Collector for organising a Grand Book Fair Festival 2024 from 27.09.2024 to 06.10.2024 at St. Johns Vestry School Ground, Trichy District.	5,00,000.00	
Cultural & Heritage			
5	Provided Kambu & Solam to Peacocks Sanctuary at Arulmigu Sri Subramaniya swamy Temple, Viralimalai, Pudukottai District	13,500.00	

6	<p>Provided paver block flooring to Karuppasamy, Sri Kannimar and Sri Ayyanar Temples and arranged structural shed to Karuppasamy Temple at Chithanatham village</p>	3,71,316.00	
Environment & Sanitation			
7	<p>Green belt planting at Chinnarediyapatti, Poongudipatti and Road side tree planting neary by Unit-II</p>	4,63,000.00	
Total		20,84,319.00	




Tamil Nadu Newsprint and Papers Limited

INTEGRATED MANAGEMENT SYSTEM POLICY

Tamil Nadu Newsprint and Papers Limited (TNPL), Tamil Nadu, India, manufacturers of Pulp, Paper, Paper Board, Cement and Paper Core Pipes, as part of implementing its Integrated Management System is committed to

- **Design, Manufacture and Supply** of quality products by adopting contemporary technologies for the overall efficiency in a clean environment.
- **Achieve** Quality, Energy, Environment, Health and Safety objectives through sustained R & D efforts and process improvements.
- **Ensure** continual improvements in the process and technology to attain consistent Quality, optimized Energy utilization, Environmental protection, sustaining Occupational Health and Safety Management Systems.
- **Comply** with all legal and other requirements.
- **Comply** and Report the Environmental performance of its facilities and compliance on all relevant environment legislation and regulation to the Board of Directors and stake holders, by forming a separate Environment Management Cell for analysing, taking counter measures.
- **Stimulate** rational usage of Water, Energy and other Natural Resources through technological improvements and behavioural aspects.
- **Minimize** waste and Maximize reuse/recycling.
- **Provide** safe and healthy work environment for the prevention of work-related injury and ill health.
- **Eliminate** hazards and reduce Occupational Health & Safety risks by conducting safety audit and risk assessment periodically.
- **Ensure** consultation and participation of workers or workers' representatives in sustaining Occupational Health and Safety Management System.
- **Enhance** customers satisfaction by supply of quality products at optimal cost and timely delivery.
- **Empower** employees to work towards contributing to and improving the Integrated Management System in the organization.
- **Integrate** Quality, Energy, Environment, Health and Safety requirements with business decisions by adopting the Manufacturing Excellence Model.

Issue No: 02
November 16, 2020


S. Sivashanmugaraja, I.A.S.,
Managing Director

ஒருங்கிணைந்த மேலாண்மை அமைப்பு கொள்கை

இந்திய திருநாட்டில், தமிழகத்தில் காகிதக் கூழ், காகிதம், காகித அட்டை, சிமெண்ட், காகித உருளை குழாய் ஆகியவற்றை உற்பத்தி செய்யும் தமிழ்நாடு செய்தித்தாள் காகித நிறுவனம், தனது ஒருங்கிணைந்த மேலாண்மை அமைப்பினை செயல்படுத்துவதின் ஒரு பகுதியாக கீழ்க்காணும் கொள்கைகளை கடைப்பிடிக்க உறுதி பூண்டுள்ளது.

- தூய்மையான சூழலில் தற்கால தொழில்நுட்பத்தை கடைபிடித்து முழுத்திறனூடன் கூடிய தரமான உற்பத்திப் பொருட்களை வடிவமைத்து, தயாரித்து, வாடிக்கையாளர்களுக்கு வழங்குதல்.
- தரம், ஆற்றல், சுற்றுச்சூழல், சுகாதாரம் மற்றும் பாதுகாப்பு ஆகியவற்றின் நோக்கங்களை நிலையான தொழில்நுட்ப ஆராய்ச்சி மற்றும் செயல்முறை மேம்பாடுகள் மூலம் சாதித்தல்.
- தனது செயல்முறை மற்றும் தொழில்நுட்பங்களில் தொடர்ச்சியான முன்னேற்றத்தை உட்பகுத்தி நிலையான தரம், உகந்த ஆற்றல் நுகர்வு, சுற்றுச்சூழல் பாதுகாப்பு, தொழில்சார் சுகாதாரம் மற்றும் பாதுகாப்பு மேலாண்மை அமைப்பு ஆகியவற்றின் நிலைத்தன்மையை உறுதிசெய்தல்.
- அனைத்து சட்டங்கள் மற்றும் தேவையான பிற விதிமுறைகளை கடைப்பிடித்தல்.
- தனது பல்வேறு இயக்க நிலையங்களின் சுற்றுச்சூழல் செயல்திறன் மற்றும் சுற்றுச்சூழலுக்கு தேவையான ஆய்வுகள், எதிர் நடவடிக்கைகள் மற்றும் இணக்கம் அல்லாத செயல்கள் ஏதேனும் ஏற்படின் அதை அறிக்கையாக இயக்குனர் குழுவும் மற்றும் பங்குதாரர்களுக்கு சமர்ப்பிக்க பிரத்யேக சுற்றுச்சூழல் மேலாண்மை குழுமத்தை உருவாக்கி அதன் மூலம் சுற்றுச்சூழல் தொடர்பான அனைத்துச் சட்டங்கள் மற்றும் விதிமுறைகளை கடைபிடித்தல்.
- மேம்பட்ட தொழில்நுட்பம் மற்றும் நடைமுறை அம்சங்களில் முன்னேற்றம் ஆகியவற்றின் மூலம் தண்ணீர், ஆற்றல் பயன்பாடு மற்றும் இதர இயற்கை ஆதார வளங்களை சரியான முறையில் உபயோகிக்க தேவையான உந்துதலை ஏற்படுத்துதல்.
- கழிவுகளை குறைத்தல் மற்றும் மறுசுழற்சி/மறுஉபயோகத்தை அதிகரித்தல்.
- பணிகள் தொடர்பான காயங்கள் மற்றும் உடல்நலக்குறைவைத் தடுப்பதற்கு பாதுகாப்பான மற்றும் ஆரோக்கியமான பணிச்சூழலை ஏற்படுத்துதல்.
- குறிப்பிட்ட கால இடைவெளியில் பாதுகாப்பு தணிக்கை மற்றும் ஆபத்து மதிப்பீடுகளை நடத்துவதின் மூலம் அபாயகரமான சூழலை நீக்குவதும் தொழில்சார் சுகாதார மற்றும் பாதுகாப்பு குறித்த அபாய நேர்வுகளைக் குறைத்தல்.
- தொழில்சார் சுகாதார மற்றும் பாதுகாப்பு மேலாண்மை முறையைத் தக்கவைத்துக்கொள்வதில் தொழிலாளர்கள் அல்லது தொழிலாளர் பிரதிநிதிகளின் ஆலோசனை மற்றும் பங்களிப்பை உறுதிசெய்தல்
- வாடிக்கையாளர்களின் திருப்தியை அதிகரிக்கும் வகையில் தரமான பொருட்களை உகந்த விலையில் உரிய நேரத்தில் அவர்களிடம் விநியோகித்தல்.
- நிறுவனத்தின் ஒருங்கிணைந்த மேலாண்மை அமைப்பினை மேம்படுத்த தேவையான பங்களிப்பு மற்றும் செயல்முறைகளை கடைப்பிடிக்க தேவையான அதிகாரங்களை ஊழியர்களுக்கு அளித்தல்.
- சிறப்பான உற்பத்தி மாதிரியை அடிப்படையாக கொண்டு தரம், ஆற்றல், சுற்றுச்சூழல், சுகாதாரம் மற்றும் பாதுகாப்பு ஆகியவற்றை பேணுவதற்கான தேவைகளை தனது வணிகரீதியான தீர்மானங்களுடன் ஒருங்கிணைத்தல்.



Date: 30/03/2024

ENVIRONMENT MANAGEMENT CELL

SL. NO	NAME OF THE EXECUTIVE	DESIGNATION	QUALIFICATION	RESPONSIBILITY
1	Mr. Girish A. Deshpande	GM (R&D – QC)	B.A.Sc. Pulp & Paper Science	Head – R&D and QC and Environmental Compliance & Co-ordination with PCB officials
2	Mr. C. Ramesh Das	GM (Energy)	B.O.E Boiler Operations B.E. Mechanical	Head of Energy Department
3	Mr. P. H. Sreesh	GM (Inst)	B.Tech. Instrumentation	Head of Instrumentation department and incharge for CEMS, CAAQMS & CEQMS at TNPL Unit - II
4	Mr. K. Thiruselvam	DGM (Pulp & SR)	B.Sc. Chemistry Diploma in Pulp & Paper Technology	Head for Hardwood Pulpmill & Chemical Recovery Plant
5	Mr. A. Velmurugaraj	DGM (HR)	MA Social Dynamics PG Diploma in Personnel Management and Industrial relations	Head of HR Department and Incharge for CER Activities
6	Mr. K.S. Rajkumar	AGM (Stores)	B.E. Mechanical	Head of stores and Disposal
7	Mr. N. Muruganatham	AGM (WTP &ETP)	M.Phil.Chemistry	Section Head for operation of ETP & WTP
8	Mr. L. Balasankar Rao	Chief Manager (Lab)	M.Sc. Chemistry	Air, Water Emission and Effluent Quality Monitoring in TNPL Unit 2
PLANTATION ACTIVITIES				
9	Dr. K. Jayakumar	DGM(Forestry)	Doctorate in Agronomy	Head – Forestry, Plantation, Coordinator for TNAU activities
10	Dr. P. Chezian	Chief Manager (Plantation)	Doctorate in tree and forest genetics	Development of new superior clones in exotic & indigenous pulp wood species for captive and farm forestry of TNPL
11	Mr. S. Sathiamoorthy	DM (Plantation)	M.Sc .Agri	Monitoring of Ground Water & Soil in association with TNAU scientists

P. S. Sathiamoorthy
30.3.2024
CGM BP (O I/C)



Tamil Nadu Newsprint and Papers Limited

(A Government of Tamil Nadu Enterprise)

Kagithapuram - 639 136, Pugalur Taluk, Karur Dist. Tamil Nadu, India. E- mail : pmd@tnpl.co.in
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Cost of ESP, NCG Collection and incineration at TNPL Unit II				
Status: Installed				
Sl.no	Description	Supplier Name	Cost in Rs. Incl. Tax	Commissioning date
1	DNCG - Scrubber for Pulp Mill	Valmet AB, Sweden	5,65,72,740	31-Jan-22
2		Valmet Technologies Private Limited, Chennai	50,93,470	
3	Supply and Erection of ESP for Recovery Boiler	Andritz Technologies Private Limited, Chennai	18,89,88,800	31-Jan-22
4			1,64,64,932	
5	Supply and Erection of ESP for Lime Kiln Plant	Andritz Technologies Private Limited, Chennai	7,08,00,000	11-Mar-22
6			92,00,318	
7	Supply and Erection of NCG (CNG and DNCG) in Recovery Plant	Andritz Technologies Private Limited, Chennai	17,03,00,000	16-Oct-23
		Total Value in Rs.	51,74,20,260	

GM (PROJECTS)



TNPL Corporate Office

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Phone: 044-22354415,16,18 22301094 to 97
E - mail: response@tnpl.co.in, Web: www.tnpl.com
Corporate ID No : L 22121 TN 1979 PL C 007799

TNPL Unit - II - Board Plant

Kagitha Nagar, Mondipatti, K.Periyapatti Post,
Manapparai Taluk, Tiruchirappalli District,
Tamil Nadu, India - 621 306.
Phone: 04332-261600 Cell: 94890 12793



TNPL – MAKER OF BAGASSE BASED ECO – FRIENDLY PAPER

Status of Environment Management Plan of EIA study report

I. AIR QUALITY MANAGEMENT PLAN

EMP 1

Due to utilization of the high calorific imported coal with sulphur content less than 1%, the specific SO₂ emission rate from the proposed facility will be two to three times lower than that of the conventional co- generation power plants that are operated on Indian coal. Dedicated Electrostatic Precipitators (ESP) will be installed for control of Particulate Matter (PM) emissions from the proposed boiler in the captive power plant. ESP will be designed to achieve emission norms of 30 mg/Nm³ as per MoEF&CC January 2017 regulations.

Compliance

As the scope on installation of new power boiler is under Phase-2 of expansion, the ESP will be installed along with the new boiler.

EMP 2

A dry limestone/ lime sludge injection system shall be installed to meet the SO₂ emissions. Lime stone demand will be about 4 T/T of SO₂ emissions from the facility and additional fly ash to the tune of 3 T/T of SO₂ will be generated from the proposed power boiler.

Compliance

As the scope on installation of new power boiler is under Phase-2 of expansion, the dry limestone/ lime sludge injection system will be installed along with the new boiler.

EMP 3

A 100 m tall stack will be installed to disperse the stack gases as per the minimum stack height norms. The predicted ground level concentrations will be complying with the NAAQ Standards.

Compliance

As the scope on installation of new power boiler is under Phase-2 of expansion, the 100 m tall stack will be installed along with the new boiler.

EMP 4

Stacks of height 90 m and 35 m will be installed for chemical recovery boiler and lime kiln respectively as per the minimum stack height norms.

Compliance

Stack of height 90 m & stack of height 54.8 m were installed for chemical recovery boiler & Lime Kiln stack respectively.

Chemical Recovery Boiler Stack – 90 m height



Lime Kiln Stack – 54.8 m height



EMP 5

Like the existing boiler, continuous online stack emission monitoring unit will be installed to monitor Particulate Matter, SO₂ and NO_x emissions for the proposed boiler.

Compliance

TNPL has provided Continuous online stack emission monitoring system for measuring Particulate Matter, SO₂ and NO_x emissions for the existing Power boiler, Recovery Boiler & Lime Kiln which are in operation. The same facility will be provided for the proposed boiler which will be installed under phase II of MEP.

II. FUGITIVE EMISSIONS CONTROL MANAGEMENT

EMP 1

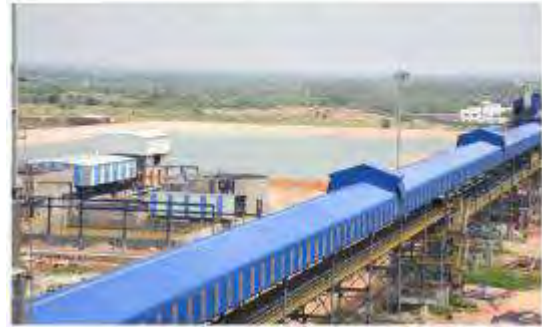
Existing Closed belt conveyors will be used to transport coal from stock yard to boiler house.

Compliance

Closed belt conveyors are being used to transport coal from stock yard to existing boiler which is in operation. The same facility will be extended for the proposed power boiler, which will be installed under part of MEP Phase II.



Closed hoods for coal conveyors



EMP 2

Existing Closed belt conveyors will be extended up to the new boiler.

Compliance

Closed belt conveyors has been provided for the existing boiler which will be extended for the proposed boiler under Phase II of MEP.

Closed transfer of coal between conveyors



EMP 3

Similar to the existing operations, ash will be transported by closed bulkers to potential users.

Compliance

The same facility will be extended for the proposed boiler under Phase II of MEP.



EMP 4

Adequate numbers of water sprinkling system at coal storage yard has been already installed and intensity of the water sprinkling will be done based on the amount of coal handled and meteorological conditions.

Compliance

Adequate numbers of water sprinkling system at coal storage yard is already installed. Based on the requirement, additional water sprinklers will be extended in phase II of expansion.



EMP 5

Unloading of coal trucks will be carried out with proper care, avoiding dropping of the materials from height. It is advisable to moisten the material by sprinkling water while unloading, handling and during storage.

Compliance

This practice is being followed from the inception of the unit and shall be continued on post MEP implementation also.



EMP 6

Existing Mobile road dust cleaning machines will be employed to collect coal fines if any.

Compliance

Mobile road dust cleaning machines is employed to collect coal fines.



EMP 7

High efficiency bag filters are installed at the coal yard, coal transfer points and preparation yards for the control of dust.

Compliance

Bag filters are installed in the Dust Extraction system to control dust on Coal Handling Plant.



EMP 8

Adequately designed greenbelt is developed for further control the fugitive emissions.

Compliance

The required greenbelt is designed as per the norms of CPCB and established well within the plant area. 1,28,880 no. of green belt trees with different species were planted in 131.01 acres to effectively control fugitive emission which covers 35 % of the total plant area developed and being maintained.



III. MANAGEMENT OF NON CONDENSABLE GASES (NCG) EMISSION

EMP 1 to 3

Emissions from digester relief and digester pulp discharge tanks will be connected to water stripping in the scrubber and the non- condensable gases will be fired in the lime kiln. A lime kiln of 250 TPD capacity is proposed to be installed under the MEP. Emissions from digester tank relief tanks will be connected to lime kiln Emissions from evaporator condenser, will be connected to lime kiln.

Compliance

BRIEF WRITE-UP ON DNCG & CNCG COLLECTION AND INCINERATION

As part of Mill Expansion Plan, TNPL installed a 400 TPD Hardwood Pulp mill, along with connected Chemical Recovery System. During the Pulping process, certain reduced Sulphur based Non-Condensable Gases (NCG) is generated which will create odorous environment, in and around the mill area. In order to have an odour free environment, a state of the art technology has been considered right at the concept stage of the project.

Accordingly, a full fledged NCG collection and incineration system has been installed which plays a vital role in helping the pulp mill meet strict environmental regulations as well as being a good neighbour in the surrounding community.

There are two main sources of NCG in a pulping process. Some sources emit a small, but highly concentrated amount (Concentrated NCG or CNCG), while others emit large volumes with low concentrations (Dilute NCG or DNCG). During the process, Dilute NCG is generated in the Pulp mill digester and the Black liquor storage areas, while Concentrated

NCG is generated in the Black liquor evaporation process. The DNCG and CNCG are collected and incinerated through exclusive systems, as described below:

CNCG & Methanol Generation and incineration

The foul condensate from the Black liquor Evaporation plant is stripped through LP steam or first effect vapour. After stripping the Foul condensate is received as "A" condensate, which is recycled back in the process and the stripper outlet gas (SOG) is further stripped through LP steam in a methanol column. From the stripper column, CNCG is generated and the methanol is recovered in liquid form.

Methanol generated is stored in a storage tank and then used as fired in the Lime Kiln.

In addition to the CNCG generated from the SOG stripping of Evaporation plant, the gases emanating from Vacuum pump shall also be collected and transferred to Lime Kiln through a steam ejector, for firing.

In case of Lime Kiln stoppage, the CNCG is routed through a flare system, where the gases are fired.

Collection and incineration of DNCG

All storage tanks from Evaporator plant (Weak Black Liquor, Spill Liquor, Condensate storage tanks, HBL tank) vents are connected through a flap valve to collect the DNCG. The DNCG shall be scrubbed with cooling water and then through a blower it is sent to the Chemical Recovery Boiler.

Similarly, all storage tanks from Reausticising plant (White Liquor tanks, Green Liquor tanks, Dregs tanks, Weak white liquor tank, Dilution tank, wash water tank) vents are connected to collect the DNCG, for subsequent firing in the Chemical Recovery Boiler.

The Pulp mill has a separate collection system for the DNCG gases from the Digesters, Pulp Discharge tank and the Black liquor storage tanks. The DNCG system forms part of the Hardwood digester. The system delivers the DNCG after necessary scrubbing and joins the DNCG collected from the Evaporator and Reausticizing area, and fired into the Chemical Recovery Boiler.

DNCG forms part of the secondary air in the Recovery Boiler. A DNCG fan in the Recovery Boiler receives gases from all the above areas and the gas pressure is raised to ensure entry of the DNCG without any interruption through the Secondary air duct. The DNCG fan speed is controlled by a Variable Frequency drive.

DNCG fan delivery first flows to the DNCG gas preheater. Gas is heated by both LP and MP steam gas preheater. Gas is preheated to match the secondary air duct temperature of 130-150 Deg C. After preheating gases are led to the secondary air duct.

EMP 4

Vents from bleaching tanks will be connected to a alkali scrubber.

Compliance

Vents from bleaching tanks were connected to a alkali scrubber.



IV. NOISE MANGEMENT PLAN

EMP 1

Steam turbine and turbo-generator in the co-generation plants will be provided with acoustic insulation and, also, will be placed in a closed room.

Compliance

Turbo – generator is provided with acoustic insulation and placed in closed room as shown.

Acoustic Insulation



EMP 2

Appropriate noise barriers/shields, silencers etc will be provided in the equipment, wherever feasible and necessary. As far as possible, noise emanating from noisy equipment shall be adequately attenuated by enclosures, insulations etc.

Compliance

Noise barriers/ shields, silencers etc., are installed in the system.



EMP 3

Ear plugs are being provided to workmen working near high noise generating sources.

Compliance

Ear Plugs are provided to the persons working near high noise generating area.



EMP 4

The existing greenbelt around the plant will further attenuate noise levels.

Compliance

Totally 8,11,783 nos. of trees are planted to reduce the impact of noise level.



V. WATER AND WASTEWATER MANAGEMENT

A) WATER CONSERVATION

EMP 1

Fresh Water for the proposed MEP will be sourced from River Cauvery through collector wells with the permission already obtained from State Government. Water reuse and recycling will be carried out in the plant to maintain water consumption less than 25 m³/t of Paper.

Compliance

Fresh water is being sourced from river Cauvery. Necessary approval is obtained from state government.

After Phase – 1 of MEP, around 1000 m³/day of water is recycled and reused in the process. Further specific consumption less than 25 m³/t of paper will be achieved after installation of Paper Machine of 165000 TPA which will be installed in Phase-2.

EMP 2

The fresh water requirement for the mill is about 7,700 m³/day which is equivalent to around 13 m³/t of paper with respect to current paper production. As a part of MEP further water conservation and recycling programs will be implemented to achieve specific water consumption less than 25m³/t post MEP with total fresh water consumption of about 20,700 m³/day. Continuous efforts shall be made to reduce the water consumption and thereby to reduce the waste water generation.

Compliance

The specific water consumption of 25m³/t post MEP will be achieved in Phase-2 MEP expansion. Further, TNPL is always taking initiative and implementing water conservation projects to achieve the best result in the pulp and paper segment.

B) WASTE WATER TREATMENT AND MANAGEMENT

EMP 1

Wastewater generated from the plant will be treated in a primary clarifier followed by extended aeration biological treatment plant and the treated effluent will meet the CPCB prescribed irrigation discharge standards. Total estimated wastewater quantity from the facility will be in the order of 18,000 m³/day during the post project scenario. It is proposed to augment the existing ETP to accommodate the additional wastewater to be generated from the expansion activities. The existing wastewater treatment plant can handle 9,000 m³/day of wastewater. It is proposed to augment the existing ETP to treat 12,000 m³/day board machine/ paper machine effluents. A separate ETP for treating wastewater from hardwood pulp mill, chemical recovery and power plant effluents with a capacity of 15,000 m³/day is proposed to be installed. After MEP Project, total ETP capacity shall be 27,000 m³/day for handling wastewater from existing operations and proposed project operations.

Compliance

After MEP Phase – I, the waste water generation is around 9480 m³/day. A new ETP of capacity 15MLD is installed to handle the waste water generated from Pulp mill and Chemical Recovery plant. Existing ETP is proposed to be augmented in Phase – II of expansion to handle around 12,000 m³/day of waste water from existing board machine and proposed paper machine.

New Waste Water Treatment Plant- 15 MLD



EMP 2

Dedicated STP is already installed for the colony and if required additional STP's will be installed and the treated water will be reused for green cover and horticulture applications.

Compliance

Dedicated STP is already installed and in operation in colony area.

The following are the STP details installed in Paper Board Plant and in Captive Co- Gen Plant.

Name of the Treatment Unit	No. of Units	Dimension	Area
STP's & Septic Tank Covered under Paper Board Unit			
STP #1 (Board machine)	1	20 KLD	Existing
STP #2 (Guest House)	1	20 KLD	Existing
STP#3(Pulpmill,FH area)	1	10 KLD	Phase – 1. Installation completed.
STP#4 (Admin area) - Expansion	1	20 KLD	Phase – 1. Installation completed.
Total STPs	4	70 KLD	-
Septic Tank #1 @ Stores Dept	1	4.02mx1.32mx2.53	Phase – 1. Installation completed.
STP's Covered under Captive Co-Gen Plant			
Captive Power Plant area (STP#1) - Existing	1	10 KLD	Existing

The entire STP outlet, after treatment will be utilized for on land gardening.

C) TREATED WASTE WATER MANAGEMENT

EMP 1

After utilization of considerable quantity of treated wastewater in the plant, the excess, unutilized treated wastewater will be used for irrigation/greenbelt/green cover development. Combined treated wastewater will be complying with the discharge standards prescribed by CPCB/SPCB for discharge for irrigation. As the areas around the plant are only with rain fed cultivation, farmers are expected to be benefited by using the treated wastewater for irrigation, as is being practiced currently in the Unit # 1 & 2. TNPL Unit 2 has already covered 650 acres of land for green development using existing treated wastewater.

Compliance

Total green belt area of is 674.18 acres out of which 623.89 acres under drip irrigation project with treated effluent water. Total Green belt Plantation is systematically planned and

established by planting 8,11,783 no. of tree saplings consisting various native and fast growing evergreen forest species. Treated effluent water is being used as prescribed by CPCB/SPCB for discharge for irrigation through drip system.. Measures are taken by meticulous planning and execution of the irrigation schemes for effective utilization of treated effluent water the development of the plantation area.



Master Data of Organisation		
Name of Organisation	TAMILNADU NEWSPRINT AND PAPERS LIMITED – UNIT II	
Name of corporate group (in case of multi site organization only)	-	
Street	Multilayer Coated Board Manufacturing Facility, Mondipatty, K.Periyapatti Post, Manapparai Taluk,	
Postcode / Town / Country	Tiruchirappalli- 621 306, Tamilnadu, India	
Contact	Mr. S Narayanan (AGM - QC); narayanan.s@tnpl.co.in ; Mobile: 8300452507 Mr. D.V.S.S.A. Bhanu Prasad; (Chief General Manager); bhanuprasad@tnpl.co.in ; Mobile: 9486038923	
E-Mail	narayanan.s@tnpl.co.in ; Mobile: 8300452507	
Phone	04332-261600	
System documentation: (Revision / Issue)	IMS/U2/AM & EnMS/U2/AM, Issue # 02, Latest review on 01-12-2023	
Shift operation	3-shift operation	
Language	English	
Peculiarities	None	
Multi Site Organisation		
Selection of sites to be audited by sampling procedure	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> n.a.
An adequate listing of all sites in the scope(s) including all valid and relevant information in each case is part of the audit file	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> n.a.
Audit profile		
Contract ID (ZE):	2.5-9347	
Standards under contract / Audit type	ISO 9001:2015 1.Surveillance Audit Onsite Audit	ISO 14001:2015 1.Surveillance Audit Onsite Audit
	ISO 45001:2018 1.Surveillance Audit Onsite Audit	ISO 50001:2018 1.Surveillance Audit Onsite Audit
Surveillance mode	Yearly surveillance	
Audit team leader	S. Senthivel (SS)	
E-Mail Audit team leader	ssenthivel@tuv-nord.com	
Audit team	R. Harikarthikeyan (HK)	
	Dilip Thivagar (DT)	
	Suresh TN (STN)	
Technical expert	-	
Trainee	-	
Observer	-	

Audited Standards	
ISO 9001:2015	1.Surveillance Audit
Certificate ID (TP): 44 100 1932582	Valid until: 27-09-2025
Scope: Development, Manufacture and Supply of Multilayer Uncoated and Coated Paper Boards	
Industry / Sector (EA, TB, ...) : 7.2	
Non-applicability of chapters: Nil	
No. of considered persons: 3252	No. of sites (incl. HQ): 1
Lead auditor: S. Senthilvel	Audit ID (ZA): 2.5-9347/2019
ISO 14001:2015	1.Surveillance Audit
Certificate ID (TP): 44 104 1932582	Valid until: 27-09-2025
Scope: Development and Manufacture of Multilayer Uncoated and Coated Paper Boards	
Industry / Sector (EA, TB, ...) : 07.0 R4	
Non-applicability of chapters: Nil	
No. of considered persons: 3252	No. of sites (incl. HQ): 1
Lead auditor: S. Senthilvel	Audit ID (ZA): 2.5-9347/2019
ISO 45001:2018	1.Surveillance Audit
Certificate ID (TP): 44 126 1932582	Valid until: 27-09-2025
Scope: Development and Manufacture of Multilayer Uncoated and Coated Paper Boards	
Industry / Sector (EA, TB, ...) : 07 R2	
Non-applicability of chapters: Nil	
No. of considered persons: 3252	No. of sites (incl. HQ): 1
Lead auditor: S. Senthilvel	Audit ID (ZA): 2.5-9347/2019
ISO 50001:2018	1.Surveillance Audit
Certificate ID (TP): 44 764 1932582	Valid until: 27-09-2025
Scope: Manufacture of Multilayer Uncoated and Coated Paper Boards	
Industry / Sector (EA, TB, ...) : 7	
Non-applicability of chapters: Nil	
No. of considered persons: 3252	No. of sites (incl. HQ): 1
Lead auditor: S. Senthilvel	Audit ID (ZA): 2.5-9347/2019

Definition of unit for duration and time		
Applied unit	Days	One audit day covers 8 audit hours
Audit Details		
Sites	TAMILNADU NEWSPRINT AND PAPERS LIMITED – UNIT II Multilayer Coated Board Manufacturing Facility, Mondipatty, K.Periyapatti Post, Manapparai Taluk, Tiruchirappalli- 621 306, Tamilnadu, India	
Audit date	11-13 December 2023	
Audit duration	11.5 person Days on site (incl. remote locations as applicable) inclusive 0,00 person Days on site for audit stage 1 (separate report)	

Application of methods and tools in remote auditing			
Conducted as a remote audit	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Partly	<input type="checkbox"/> Total
Technologies used for the remote audit	<input type="checkbox"/> MS Teams	<input type="checkbox"/> Cisco WebEx	<input type="checkbox"/> Zoom
	<input type="checkbox"/> Other on request of client: In this case, client takes over the responsibility for any required activity in information security.		

Details about the remote audit (if applicable)
<p>The audit was performed applying technology for information and communication (“remote”) at 0%. Effectiveness and efficiency of the remote-part was ensured by</p> <ul style="list-style-type: none"> <input type="checkbox"/> experienced application of engaged technology; <input type="checkbox"/> the consecutive processing of the single sessions with the individual units; <input type="checkbox"/> the online interviews with different people from diverse units and various hierarchical levels; <input type="checkbox"/> the separation of the audit team in individual online sessions; <input type="checkbox"/> reviewing an adequate sample of documented processes and/or information; <input type="checkbox"/> the discussion of appropriate charts, diagrams, slides or any other relevant information; <input type="checkbox"/> the presentation and discussion of photos, videos and audios of issues, being prepared on detailed guidance and governance of the audit team. <p>Details about reviewed information or documents, interviewed persons, content of videos & photos etc. are recorded in the report or (handwritten) notes.</p> <p>If the audit was performed partly remote, the corresponding sessions are identified unambiguously in the audit plan.</p>

Distribution/Confidentiality/Rights of ownership/Limitations/Responsibilities
<p>This report is sent to the certification body or bodies, the members of the audit team and the audit representative of the organisation. All documents (such as this report) regarding the certification procedure are treated confidentially by the audit team and the certification body. This audit report remains the property of the certification body.</p> <p>An audit is a procedure based on the principle of random sampling and cannot cover each detail of the management system. Therefore nonconformities of weaknesses may still exist which were not expressly mentioned by the auditors in the final meeting or in the audit report.</p> <p>The responsibility for continuous effective operation of the management system always rests solely with the audited and certified organisation.</p> <p>Salvo clause: The audit report will be left to the organisation at the end of the audit - subject to approval by the certification body. The independent veto process may cause modifications or additions. In these cases a modified revision will be sent to the audited organisation.</p>

Annex/Enclosures	
Annex/ corresponding audit documentation	<input type="checkbox"/> Questionnaire(s) / Checklist(s) <input type="checkbox"/> Additional annexes, number

Table of Results

Audit results							
Error! Reference source not found. : Error! Reference source not found.		ISO 14001:2015		ISO 45001:2018		ISO 50001:2018	
Clause	Rslt.*	Clause	Rslt.*	Clause	Rslt.*	Clause	Rslt.*
4.1	1	4.1	1	4.1	1	4.1	1
4.2	1	4.2	1	4.2	1	4.2	1
4.3	1	4.3	1	4.3	1	4.3	1
4.4	1	4.4	1	4.4	1	4.4	1
5.1	1	5.1	1	5.1	1	5.1	1
5.2	1	5.2	1	5.2	1	5.2	1
5.3	1	5.3	1	5.3	1	5.3	1
6.1	1	6.1	2	5.4	1	6.1	1
6.2	1	6.2	1	6.1	2	6.2	2
6.3	1	7.1	1	6.2	1	6.3	2
7.1	2	7.2	1	7.1	1	6.4	1
7.2	1	7.3	1	7.2	1	6.5	1
7.3	1	7.4	1	7.3	1	6.6	1
7.4	1	7.5	1	7.4	1	7.1	1
7.5	1	8.1	2	7.5	1	7.2	1
8.1	1	8.2	1	8.1	2	7.3	1
8.2	1	9.1	1	8.2	1	7.4	1
8.3	1	9.2	1	9.1	2	7.5	1
8.4	2	9.3	1	9.2	1	8.1	1
8.5	2	10.1	1	9.3	1	8.2	1
8.6	1	10.2	1	10.1	1	8.3	1
8.7	2	10.3	1	10.2	1	9.1	2
9.1	1			10.3	1	9.2	1
9.2	1					9.3	1
9.3	1					10.1	1
10.1	1					10.2	1
10.2	1						
10.3	1						
Additional requirements in accordance to ISO 17021:2015							Rslt.*
▪ internal audits and management review							1

Audit results								Table of Results
Error! Reference source not found. : Error! Reference source not found.		ISO 14001:2015		ISO 45001:2018		ISO 50001:2018		
Clause	Rslt.*	Clause	Rslt.*	Clause	Rslt.*	Clause	Rslt.*	
▪ review of actions taken on nonconformities identified in previous audit							1	
▪ responsiveness to complaints							1	
▪ effectiveness of the management system with regard to fulfilment of objectives							1	
▪ progress of planned activities aimed at continual improvement							1	
▪ the client's management system ability and its performance regarding meeting of applicable requirements							1	
▪ operational control of the client's processes							2	
▪ review of any changes including the management system documentation							1	
▪ use of marks and/or any other reference to certification – used in Letter heads							1	
Rslt.* (Result): 0 = not audited; 1 = fulfilled; 2 = basically fulfilled/ potential for improvement; 3 = not fulfilled/ nonconformity; - = not applicable/ excluded. Details: see section „Audit findings“								

Mandatory elements from A00VA02			
Temporary Sites			
a) Are temporary sites (i.e. installation sites, project locations etc.) available?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
b) If yes: which one are visited?	NA		

Objective evidences – Not applicable since this is 1. SA

In any regular audit the audit team shall see and review the following objective evidences. To confirm, the corresponding revision information is registered in column „Edition“ That can become applicable as well for some or all the listed objectives in special audits, e.g. for extensions or after transferring sites.
 At least in **initial/recertification or extension audits** (or when necessary) these objective evidences/documents are attached adequately to the audit file and uploaded into the release workflow. In any other audit it is accepted to record the revision information only.

Title/Content	Edition	Attached
Entry in professional or commercial register (or comparable evidence) - if applicable		<input type="checkbox"/>
Organization chart/evidence of organization		<input type="checkbox"/>
Company policy for audited management systems		<input type="checkbox"/>
Overview of management system documentation (e.g. table of contents or presentation of the structure of the management system documentation, process map)		<input type="checkbox"/>
Result of management review (e.g. cover sheet or table of contents with date and signature)		<input type="checkbox"/>
Current annual planning of internal audits and evidence of audit report(s) (e.g.: cover sheet with date and signature)		<input type="checkbox"/>
Standard-specific evidence, as applicable (e.g. ISO 14001: extract of environmental permit register; ISO 27001: statement of applicability, ISO 45001: accident statistics; ISO 50001: energy report as cover sheet with date and signature or evidence of continual energy performance improvement)		<input type="checkbox"/>

Confidential information in the attached evidences may be blacked.

Standard specific results

Additional standard specific audit results and/or information are recorded in corresponding „Supplemental audit reports“ (e.g. for ISO 27001 or ISO 50001).

Organisations profile

COMPANIES PROFILE CONTAINING FOLLOWING INFORMATION

TAMILNADU NEWSPRINT AND PAPERS LIMITED – UNIT II

Multilayer Coated Board Manufacturing Facility

Mondipatty, K.Periyapatti Post, Manaparai Taluk, Trichy, 621306 Trichurapalli / India

Scope of the management system is:

ISO 9001: Development, Manufacture and Supply of Multilayer Uncoated and Coated Paper Boards

ISO 14001 & ISO 45001: Development and Manufacture of Multilayer Uncoated and Coated Paper Boards

ISO 50001: Manufacture of Multilayer Uncoated and Coated Paper Boards

Total number of employees: 3252

Range of products: Cup Stock, Folding Box Board, Solid Bleached Sulphate Board, White Lined Chip Board, Grey Back Board (GSM Range : 160 to 450 g/m²);

Major clients: Parksons Packaging Limited, Mumbai, Nebula Home Products, Goa, Candid Private Limited, Mumbai, Uflex Private Ltd, Ahmadabad, Tamilnadu Textbook and Educational Service Corp, Chennai; Times Poly Graphics, Chadigarh; World Star Packaging, Delhi, Sneh Comprint Private Limited, Kolkatta, Wide Angle Packaging System Pvt Ltd., Kolkatta, Lovely offset Printers Pvt Ltd, Sivakasi, Focus Print and Pack, Chennai, Essa Garments Private Limited, Chennai, Box Board Suppliers, Mumbai.

Important processes / products / services:

Waste Paper Processing Plant (WPP): Waste Paper is slushed, detashed, screened, thickened and dispersed and stored in storage towers.

Hardwood Pulping: In hardwood pulping street, the wood logs are drawn from the wood yard and chipped in the drum chippers. The chips are taken into the Continuous digester for cooking, after cooking the pulp is screened, washed and then sent to a two stage Oxygen Delignification. After Oxygen Delignification, pulp is taken for Bleaching. The sequence adopted in ECF Bleaching is D0-EP-D1 to get the final brightness of around 85% ISO.

The pulp slurry from WPP and Hardwood Pulping is sent to paperboard manufacturing after refining and with required functional chemical additives. Paperboard is made continuously in wire part of paperboard machine with 4 layers and the layers are combined to form paperboard, after pressing in press part. It is dried in steam heated cylinders equipped with a Machine Glaze (MG) cylinder. The paperboard web is surface sized with starch, calandered & coated in coating section. Finally reeled as jumbo roll in pope section. The Jumbo Rolls are cut into child reels / sheets as per the customer required sizes during finishing operation and dispatched after packing.

Important environmental aspects and facilities (ISO 14001): Generation of waste water; Generation of plastic waste; Generation of Air emissions; Generation of solid wastes; Generation of Hazardous waste;

Facilities: Effluent Treatment plant to treat waste water to meet the discharge norms. The entire treated water is used in plantation in 575 acres of company owned land through drip irrigation; Plastic waste is sent to cement plants as fuel; Electrostatic precipitators installed to meet the discharge norms as specified by PCB. Fly ash generated is sent to cement plant as input material for cement manufacturing; Other solid wastes such as Mixed Liquid Suspended Solids (MLSS), Fiber wastes during processing. MLSS is sent to plantation dept to make biocompost. Fiber waste is sent to secondary card board manufacturers.

Hazardous wastes such as copper waste, waste Oil, etc are sent to recyclers approved by PCB for disposal.

Important occupational health & safety HAZARDS / risks (ISO 45001 / OHSAS): Fire hazard; Toxic gas – Cl₂; Machineries & Equipment handling; Hazardous chemicals – Sulphuric acid & HCl;

Significant permission aspects (LEGAL COMPLIANCE REQUIREMENT): Valid consent order for Air, Water, Hazardous waste authorisation, Factory licence and Submission of forms (returns) as per the time line verified and found effective

Legally required representatives (ISO 45001 / ISO 14001 / ISO 9001): Chairman & Managing Director Dr. M. Sai Kumar (IAS); Executive Director (Operations) i/c Mr. R. Srinivasan; CGM-Board Plant Mr. D.V.S.S.A. Bhanu Prasad; AGM HR Mr. Dhinakaran; ISO Coordinators - AGM (QC) - Mr. S. Narayanan for IMS and for EnMS Mr. Murale and Officer (R&D-QC) Mrs. V. Shanmuga Priya; Safety officer Mr. Senthilkumar & Mr. Godwin Rajakumar; Welfare officer Mr. Peroz Kumar; Medical officer Dr. Niranjana Devi;

This organisation is certified since 2019 for ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 and ISO 50001:2018 standards

Summary of Results

- **ASPECTS OF THE COMPANY AND/OR THE AUDIT TO BE HIGHLIGHTED**
- **ISO 9001 / ISO 14001 – STATEMENT ON THE IMPLEMENTATION OF THE STANDARD REQUIREMENTS**
 - **STRATEGICAL DIRECTION OF THE ORGANISATION (CONTEXT, STAKEHOLDER ANALYSIS) :** INTERNAL AND EXTERNAL ISSUES DEFINED IN IMS/U2/ENE/IEI, AVAILABILITY OF RAW MATERIAL, POWER, IMPORT OF COAL FOR FIRING, AWARENESS AMONG THE EMPLOYEES RELATED TO EHS REQUIREMENT, POWER CONSUMPTION MONITORING IN SHOP FLOOR
 - **RISK-BASED APPROACH (ANALYSIS OF RISKS AND OPPORTUNITIES) :** RISK AND OPPORTUNITIES IMS/U2/IM/R0 VERIFIED; RISK ASSESSMENT GUIDE LINE DEFINED. PROCESS WISE RISK ASSESSMENT CONDUCTED
 - **CONTROL OF EXTERNALLY PROVIDED PROCESSES :** CONTROL OVER OUTSOURCING PROCESS DEFINED. MONITORED THROUGH SUPPLIER PERFORMANCE – MANPOWER, TESTING AND CALIBRATION, UPS AND EQUIPMENT AMC, OPERATION AND MAINTENANCE OF UTILITIES
 - **FULFILMENT OF COMPLIANCE // LEGAL AND OTHER OBLIGATIONS :** VALID CONSENT ORDER FOR AIR, WATER, FIRE LISCENCE, FACTORY LISCENCE AND HAZARDOUS WASTE AUTHORIZATION RENEWAL APPLICATION VERIFIED

- **CONSIDERING THE LIFE CYCLE PERSPECTIVE WHEN DETERMINING THE SIGNIFICANT ENVIRONMENTAL ASPECTS** : LIFE CYCLE PERSPECTIVE CONSIDERED FOR EACH STAGE OF PRODUCTION PROCESS. END OF LIFE DISPOSAL UPDATED AND COMMUNICATED. SINCE THE PRODUCT IS RECYCLABLE, SAME IS COMMUNICATED
- **MEASUREMENT AND CONTINUAL IMPROVEMENT OF THE ENVIRONMENTAL / OH&S PERFORMANCE** : MONITORING AND MEASUREMENT PLAN EVIDENCED AND VERIFIED. CONTINUAL IMPROVEMENT PROJECTS IDENTIFIED AND COMPLETED (2022-23); TOTAL 9 ENERGY SAVING PROJECTS COMPLETED AND 10.18 LAKHS OF KWH SAVED;
- **ISO 45001 STATEMENT INDICATING THE IMPLEMENTATION OF THE STANDARD REQUIREMENTS**
 - **STRATEGICAL DIRECTION OF THE ORGANISATION (CONTEXT, UNDERSTANDING THE NEEDS AND EXPECTATIONS OF WORKERS AND OTHER INTERESTED PARTIES)** :
Defined in IMS/U2/AM/CON, Internal and External Issues identified. Data Security, Chlorine Sensor Failure, Abnormal power consumption, STP/ETP Overflow , Changes in Legal & Regulatory Requirement, Water Drawl from River during Summer . interested Parties needs and Expectation are addressed Management Board , Employees, Contractors, Customer, Legal & Regulatory bodies, Neighboring community are Addressed
 - **CONSULTATION AND PARTICIPATION OF WORKERS** : Procedure:IMS/U2/Safety/SOP-08, Consultation and Participation of Workers are conducted through Safety committee Meetings, conducted once in 3 months Latest conducted dt. 01/12/2023, Operators and Management representation are equal & Contractors Meeting monthly Conducted verified.
 - **HAZARD IDENTIFICATION AND ASSESSMENT OF RISKS AND OPPORTUNITIES** : HIRA IMS/U2/AM/PLA, Procedure Defined , HIRA report IMS/U2/EC-HIRA , Severity X Occurrence, Rating (1-5), risk category , Low Rsk, Acceptable Risk, Moderate, High Risk, Extreme/Not Acceptable Risk).
 - **PLANNING, ACTIONS TO ADDRESS RISKS AND OPPORTUNITIES** : Risk and Opportunity procedure IMS/U2/AM/PLA, IMS/U2/(Dept-Sec)/R0 Positive/Negative Input for risk assessment Internal & External Issues , process related risks are addressed, Risk control measures, Risk mltigation plan are evidenced.
 - **MANAGEMENT OF CHANGE** : Defined in IMS MANUAL: IMS/U2/AM, change Management Request : IMS/U2/MR/F-23 , for DNCG process and Change Management completed
 - **CONTRACTORS, OUTSOURCING** : Procedure: IMS/U2/PUR/SOP-01 Rev.02 defined, Contractor control evidenced and verified for Sri Balamalai Murugan Infra, . M/s. PKV Agencies, Chemfab Alkali Limited, External Service provider controls SOP defined.
 - **CONTINUAL IMPROVEMENT OF OH&S PERFORMANCE** : Leadership commitment on customer focus, compliance obligations and prevention measures to mitigate environmental pollution and concern /commitment to prevent injury to workers evident; DNCG collection system @ Recovery island which helps to reduce the Methene emission leads to Odour control in the Mill premises; Safety Campaign conducted in every two months found good
 - **CAPABILITY OF THE OH&SMS TO MEET ITS COMPLIANCE OBLIGATIONS** : Factory Llcense , Fire License , Building Stability Certificates , Form 21 & 22 submission, PESO Lincenses for Toxic Gases SO2, Cl2 are Evidenced with Validly verified.

STATEMENT ON THE AUDIT PARTICIPATION DURING CLOSING MEETING-

1. **THE MANAGEMENT LEGALLY RESPONSIBLE FOR OCCUPATIONAL HEALTH AND SAFETY : MR. D.V.S.S.A. BANU PRSAD (CGM-BP & FACTORY MANAGER), MR. A. VELMURUGARAJ (DGM-HR)**

2. **PERSONNEL RESPONSIBLE FOR MONITORING EMPLOYEES’ HEALTH : MR. A. VELMURUGARAJ (DGM -HR)**

3. **THE EMPLOYEES’ REPRESENTATIVE(S) WITH RESPONSIBILITY FOR OCCUPATIONAL HEALTH AND SAFETY; IF NECESSARY: DOCUMENTATION OF JUSTIFICATION IN CASE OF ABSENCE OF SINGLE AUDIT PARTICIPANTS DURING CLOSING MEETING:** All required participants were participated in the Closing meeting: Mr. S. Senthilkumar (AM-Safety), Mr. D. Godwin Rajkumar (Officer-Safety)

Conclusion

Taking into account the audit findings documented below, the organisation's size and structure, objectives, scope of the management system, processes and results achieved, the organisation has demonstrated that it operates its management system to ensure conformity with its own requirements, the requirements of interested parties, applicable legal requirements and appropriate requirements from the management system standards.

This includes in particular:the objective evidences,

- the policies and objectives and their implementation in the organisation,
- the processes existing in the management system and their interactions,
- the resource management,
- the measuring and analysis (incl. sample of indicators),
- the continual improvement process as well as
- the recording system (p.r.n. including standard specific objective evidences).

The implementation and the effectiveness of the management system and the processes for providing services/product realisation or to realize the objectives were assessed by the audit team by means of on-site inspection and examination of documented information on a random sample basis.

Audit findings		
Notes for the findings		
The evaluation of the audit findings basically follows the scheme shown below:		
Stage	Classification	Meaning
NC A	Major Nonconformity (Nonconformity A "major")	Nonconformities could be classified as major in the following circumstances: <ul style="list-style-type: none"> • if there is a significant doubt that effective process control is in place, or that products or services will meet specified requirements, • a number of minor nonconformities associated with the same requirement or issue could demonstrate a systemic failure and thus constitute a major nonconformity.
NC B	Minor Nonconformity (Nonconformity B "minor")	Nonconformities could be classified as minor, if these do not affect the capability of the management system to achieve the intended results.
OFI	Opportunity for improvement	Items which would allow optimisation of the management system in relation to the requirements of the relevant standard. It is recommended that the company implements these items.
GP	Positive aspects / Good Practice	Positive aspects of the management system worthy of special mention (see also point 4.3 if applicable).
CM	Comments	Special situation and information to be traced in next audit.

If applicable: Guidance for management of nonconformities

Identified nonconformities are each documented in a nonconformity report ("Management of a nonconformity"), which are part of this audit report as annexes.

The audit team uses the nonconformity reports after the audit to track the processing status and also documents in them the final assessment results for the nonconformities concerned.

The organization shall perform a root cause analysis for any nonconformity and define adequate corrective actions. Root cause analysis, corrective actions including action plan for implementation and - if applicable- objective evidences for performed corrections or containment actions shall be submitted electronically to nominated lead auditor in charge on time to agreed deadline (latest six weeks after last day of the audit). The lead auditor will review these documents and shall inform organisation about the result.

The auditee organisation shall implement the corrective actions as defined in the approved action plan and review the effectiveness of implemented actions.

In the case of major nonconformities (NC A) the lead auditor shall verify the complete and effective implementation of action plan until agreed date (latest three months after last day of the audit). On decision of the auditor depending on type and extent of identified nonconformity, this can be done in a follow up audit on site or in a desktop-review of submitted documentation (objective evidence).

For minor nonconformities (NC B) it can be agreed to perform the verification of effective implementation of action plan in the next regular audit.

If any nonconformity applies to more than one of the audited standards, it may be recorded in a common nonconformity report, but shall be counted in the audit report for each applicable standard. The number of nonconformity reports may therefore be less than the number of nonconformities.

Summary for nonconformities

Standard	Raised in this audit		To be verified from previous audit
	Number NC A	Number NC B	Number NC
Error! Reference source not found. : Error! Reference source not found.	0	0	0
Error! Reference source not found. : Error! Reference source not found.	0	0	0
Error! Reference source not found. : Error! Reference source not found.	0	0	0
Error! Reference source not found. : Error! Reference source not found.	0	0	0
Total	0	0	0

Total number of nonconformity-reports raised in this audit: 0

At least one of the nonconformities is graded as „generic“ and is counted in more than one corresponding audited standard.

During this audit the implementation of corrective actions and effectiveness of nonconformities of previous audit was verified. The records are attached to this audit file.

No	OFI (Opportunity for Improvement)	Area / Process	Standard: clause
1.	Preventive Maintenance check list is evidenced and verified. However, PM check list based upon the learnings from break down reports/activities may be included	Infrastructure	ISO 9001:2015 Clause # 7.1.3

2.	Incoming QC - scope to capture the Batch number of the product- chemical, starch, additive in the report. Sampling process can be revisited identifying the batch/Bag/drum no to ensure FIFO	Procurement	ISO 9001:2015 Clause # 8.4
3.	Life cycle assessment is evidenced with Raw Material Stage to End of Life Disposal Stage. However the End of Life Treatment may be specifically included for Coated Board product Out sourcing Service provider Annual performance evaluation is evidenced for all the Service providers. However the details of Incident Happened during Service period also may be included in the Annual Performance	Operational planning and control	ISO 14001:2015 ISO 45001:2018 Clause # 8.1
4.	Aspect & Impact, HIRA study need to be relooked to capture micro level activities Eg. ETP/STP – Handling of Chemicals, Collection of Water for testing	Aspect impact / HIRA	ISO 14001:2015 ISO 45001:2018 Clause # 6.1.2
5.	Reason for deviation identified in Energy performance indicator (EnPI) is explained and updated in monthly meetings. However same can be documented in Energy review meeting for better control	Energy review	ISO 50001:2018 Clause # 6.3

No	GP (Good Practice)	Area / Process	Standard: clause
1.	Leadership commitment on customer focus, compliance obligations and prevention measures to mitigate environmental pollution and concern /commitment to prevent injury to workers evident	Leadership and commitment	ISO 9001:2015 ISO 14001:2015 ISO 45001:2018 Clause # 5.1
2.	Continual improvement projects identified and completed (2022-23); Total 9 Energy saving projects completed and 10.18 Lakhs of units saved DNCG collection system @ Recovery island which helps to reduce the Methene emission, Odour control and reduction of Furnace oil consumption by 500 ltrs / day Soda Recovery Plant efficiency maintains as >98%	Continual improvement	ISO 50001:2018 Clause # 10.2

No	CM (Comment)	Area / Process	Standard: clause
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1.	Quality Plan evident- scope exist to identify the reaction plan in case of rejection	Inspection / NC product handling	ISO 9001:2015 Clause # 8.7
2.	Recipe for CCK evident- scope to define the approval, frequency of revalidation, issue and with revision number to control the process	Production	ISO 9001:2015 Clause # 8.5
3.	System of Monitoring & control of Unsafe Conditions may be improved Eg: Chipper house Earth Pit condition & Coal Yard - Eye Washer & Lightings	M&M	ISO 45001:2018 Clause # 9.1
4.	Objectives, Targets and Management programme can be identified and documented in Significant Energy Users area	Objectives	ISO 50001:2018 Clause # 6.2
5.	Identification of Legal requirement can be revisited and same can be incorporated in Legal register (EnMS/U2/LE/LR) Ex: TNERC Code and Regulations, Grid connected intrastate open access regulation 2014 Amended 2015. (However approval from TNERC is evidenced)	Evaluation of compliance with Legal and other requirement	ISO 50001:2018 Clause # 9.1.2

Closure and recommendations				
Closure result	ISO 9001:2015	ISO 14001:2015	ISO 45001:2018	ISO 50001:2018
Fulfilled	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Open nonconformities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Not fulfilled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Recommendations of audit team	ISO 9001:2015	ISO 14001:2015	ISO 45001:2018	ISO 50001:2018
Grant*/ Extension*/ Renewing*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Maintenance*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Suspension	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Restoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Refuse	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Withdrawal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

***) Grant / Extension / Renewing / Maintenance in the case of open nonconformities assumes that the nonconformities will be cleared as agreed**
Explanation of the terms:
 Renewing: New issue of the certificate for the re-certification.
 Restoring: End of the temporary invalidity of certificate after the suspension or after delayed re-certification.

Comments for next audit

If applicable, the final evidence of effectiveness and implementation of corrections and corrective actions for the nonconformities from this audit will be verified in the next audit.

The comments and opportunities for improvement will be taken up again.

The next audit is preliminarily scheduled for: Date: on or before 22 December 2024

Responsible for content

Name: S. Senthilvel

Date: 13 December 2023

Signature audit team leader: 

THE HINDU TIRUCHIRAPPALLI
TUESDAY, MAY 28, 2019

TNPL TAMILNADU NEWSPRINT AND PAPERS LIMITED
Unit II - Mondipatti, Manapparai Taluk, Trichy District,
Tamil Nadu, INDIA
Phone : 04332-261600 e-Mail : pmd@tnpl.co.in

PUBLIC NOTICE

This is to inform that the Ministry of Environment, Forest and Climate Change, New Delhi (MoEFCC) has accorded Environmental clearance for implementation of the Mill Expansion Plan of Tamil Nadu Newsprint and Papers Limited, in Mondipatti, Manapparai Taluk, vide its Order dated 04th April 2019.

Copy of the clearance letter is available with the Tamil Nadu Pollution Control Board (TNPCB) and may also be seen at the Website of TNPL www.tnpl.com.

EXECUTIVE DIRECTOR (OPERATIONS)

D/PR/440/Display/2019

TNPL - Adopts of bagasse based eco-friendly Paper

தினத்தந்தி

28-5-2019

தமிழ்நாடு சாத்திர்தான் மற்றும் காகித நிறுவனம்
 திருச்சி மாடட்டம், மண்பாளை வட்டம், மொண்டிப்படி
 கிளாமத்தில் அமைந்துள்ள தமிழ்நாடு செய்தித்தாள் காகித நிறுவன
 ஓலகு II ர் ஆலை விரிவாக்கத் திட்டத்தை நிறுவ, "மத்திய
 சுற்றுச்சூழல், வனம் மற்றும் பருவநிலை மாற்ற அமைச்சகம், புது தில்லி
 (MoEFCC New Delhi)", தனது 4 ஏப்ரல் 2019 தேதியிட்ட ஆணை
 மூலம் சுற்றுச்சூழல் அனுமதி வழங்கியுள்ளது என அறிவிக்கப்படுகிறது.
 மேற்படி ஆணையின் நகல், தமிழ்நாடு மாக் கட்டுப்பாடு வாரியத்தில்
 கடைக்கப் பெறும் மற்றும் காகித நிறுவனத்தின் இணையதளமான
www.inpl.com லும் பளித்து கொள்ளலாம்.
 செயல் இயக்குனர் (இயக்ககம்)

செ.ம.ஒ.எ.டி/440/வழங்கல்/2019



Tamil Nadu Newsprint and Papers Limited

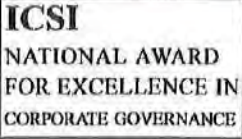
(A Government of Tamil Nadu Enterprise)

Mondipatti, K.Periyapatti Post, Manapparai Taluk - 621 306

Tiruchirappalli District, Tamil Nadu, India.

Phone : 04332 - 261600 Purchase : 04332 - 265102 Mktg : 04332 - 265265

HR : 04332 - 265275 Cell : 94890 12793 Grams : NEWSPRINT



ENV/TNPCB/UNIT II/53

21st May, 2019

**The Block Development officer (BDO),
Union Office,
Manapparai Taluk,
Trichy Dt.**

Sir,

SUB: Mill Expansion Plan - Installation of Paper Machine, Pulp Mill, Chemical Recovery Island and Augmentation of Co-Generation Plant and utilities by TNPL, Unit - II - Intimation on receipt of Environmental Clearance reg.

REF: F.No. J-11011/172/2017-IA-II(I) dated 04.04.2019.

We would like to inform that Ministry of Environment, Forest and Climate Change (MOEF&CC) has accorded "Environment Clearance" vide reference cited above for Mill Expansion Plan - Installation of Paper Machine, Pulp Mill, Chemical Recovery Island and Augmentation of Co-Generation Plant and utilities at Tamilnadu Newsprint and Papers Limited, Unit - 2 located in Mondipatti Village, Manapparai Taluk, Trichy District.

A copy of Environmental Clearance is enclosed for your information.

Thanking you

Yours Faithfully,

For TAMIL NADU NEWSPRINT AND PAPERS LIMITED,

(KUSHAL PAL SINGH)

CHIEF GENERAL MANAGER (BOARD PLANT)

வட்டார வளர்ச்சி அலுவலர் (ஊராட்சி)
மணப்பாறை

Corporate Office : 67, Mount Road, Guindy, Chennai - 600 032.

TNPL - The Corporate Identity Number : L 22121 TN 1979 PL C 007799

Fax : 044 - 22350834 / 22354614, Phone : 044 - 22354415 / 16 / 18, 22301094 - 97,

Grams : NEWSPRINT E-mail : response@tnpl.co.in/export@tnpl.co.in., Web : www.tnpl.com



Tamil Nadu Newsprint and Papers Limited

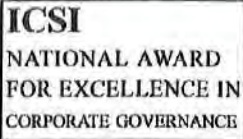
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Mondipatti, K.Periyapatti Post, Manapparai Taluk - 621 306

Tiruchirappalli District, Tamil Nadu, India.

Phone : 04332 - 261600 Purchase : 04332 - 265102 Mktg : 04332 - 265265

HR : 04332 - 265275 Cell : 94890 12793 Grams : NEWSPRINT



ENV/TNPCB/UNIT II/53

21st May, 2019

**The President,
Chithanatham Panchayat,
Chithanatham,
Manapparai Taluk,
Trichy Dt.**

Sir,

SUB: Mill Expansion Plan - Installation of Paper Machine, Pulp Mill, Chemical Recovery Island and Augmentation of Co-Generation Plant and utilities by TNPL, Unit - II - Intimation on receipt of Environmental Clearance reg.

REF: F.No. J-11011/172/2017-IA-II(I) dated 04.04.2019.


We would like to inform that Ministry of Environment, Forest and Climate Change (MOEF&CC) has accorded "Environment Clearance" vide reference cited above for Mill Expansion Plan - Installation of Paper Machine, Pulp Mill, Chemical Recovery Island and Augmentation of Co-Generation Plant and utilities at Tamilnadu Newsprint and Papers Limited, Unit - 2 located in Mondipatti Village, Manapparai Taluk, Trichy District.

A copy of Environmental Clearance is enclosed for your information.

Thanking you

Yours Faithfully,

For TAMIL NADU NEWSPRINT AND PAPERS LIMITED,


(KUSHAL PAL SINGH)

CHIEF GENERAL MANAGER (BOARD PLANT)


வட்டார வளர்ச்சி அலுவலர் (ஊராட்சி)
மணப்பாறை

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Tamil Nadu Newsprint and Papers Limited

(A Government of Tamil Nadu Enterprise)

Mondipatti, K.Periyapatti Post, Manapparai Taluk - 621 306

Tiruchirappalli District, Tamil Nadu, India.

Phone : 04332 - 261600 Purchase : 04332 - 265102 Mktg : 04332 - 265265

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ICSI

NATIONAL AWARD
FOR EXCELLENCE IN
CORPORATE GOVERNANCE

ENV/TNPCB/UNIT II/53

21st May, 2019

**The President,
Mondipatti Panchayat,
Mondipatti,
Manapparai Taluk,
Trichy Dt.**

Sir,

SUB: Mill Expansion Plan - Installation of Paper Machine, Pulp Mill, Chemical Recovery Island and Augmentation of Co-Generation Plant and utilities by TNPL, Unit - II - Intimation on receipt of Environmental Clearance reg.

REF: F.No. J-11011/172/2017-IA-II(I) dated 04.04.2019.

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A copy of Environmental Clearance is enclosed for your information.

Thanking you

Yours Faithfully,

For TAMIL NADU NEWSPRINT AND PAPERS LIMITED,

(KUSHAL PAL SINGH)

CHIEF GENERAL MANAGER (BOARD PLANT)

வட்டார வளர்ச்சி அலுவலர் (கார்ப்பரேட்)
மண்டிப்பாறை

Corporate Office : 67, Mount Road, Guindy, Chennai - 600 032.

TNPL - The Corporate Identity Number : L 22121 TN 1979 PL C 007799

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Tamil Nadu Newsprint and Papers Limited

(A Government of Tamil Nadu Enterprise)

Mondipatti, K.Periyapatti Post, Manapparai Taluk - 621 306

Tiruchirappalli District, Tamil Nadu, India.

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ICSI

NATIONAL AWARD
FOR EXCELLENCE IN
CORPORATE GOVERNANCE

ENV/TNPCB/UNIT II/53

21st May, 2019

**The President,
K. Periyapatti Panchayat,
K. Periyapatti,
Manapparai Taluk,
Trichy Dt.**

Sir,

SUB: Mill Expansion Plan - Installation of Paper Machine, Pulp Mill, Chemical Recovery Island and Augmentation of Co-Generation Plant and utilities by TNPL, Unit - II - Intimation on receipt of Environmental Clearance reg.

REF: F.No. J-11011/172/2017-IA-II(I) dated 04.04.2019.

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A copy of Environmental Clearance is enclosed for your information.

Thanking you

Yours Faithfully,

For TAMIL NADU NEWSPRINT AND PAPERS LIMITED,

(KUSHAL PAL SINGH)

CHIEF GENERAL MANAGER (BOARD PLANT)

மாட்டார் வளாச்சி அலுவலர் (ஊராட்சி)
மணப்பாறை

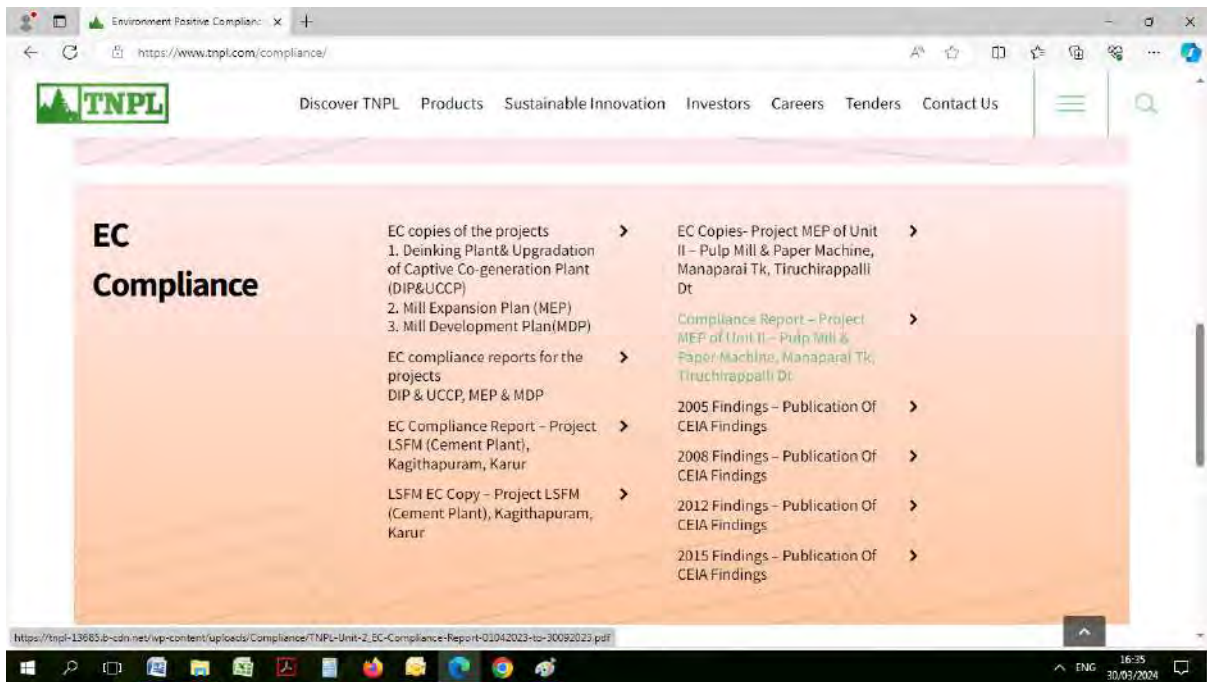
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Fax : 044 - 22350834 / 22354614, Phone : 044 - 22354415 / 16 / 18, 22301094 - 97,

Grams : NEWSPRINT E-mail : response@tnpl.co.in/export@tnpl.co.in., Web : www.tnpl.com

Photograph of EC Compliance uploaded in TNPL Website



ELECTRONIC DISPLAY BOARD AT TNPL UNIT - II ENTRANCE GATE



Screenshot depicting the submission of EC compliance for the period **Apr'23 to Sep'23** and **Oct'23 to Mar'24**.

The screenshot shows a web application interface for managing environmental clearances. The page title is 'List of Uploaded Compliances'. The navigation menu includes 'Environment Clearance', 'Forest Clearance', 'Wildlife Clearance', and 'CRZ Clearance'. The user is logged in as 'D.V.S.S.A. Bhanu Prasad, Project Proponent'. The table below lists the compliance records:

Sr.No.	Proposal No. / Name of Project	Compliance No./ EC Letter Number	State and District	Year of Compliance	Period of Compliance	Remarks	Uploaded Date	Status	View
1	IA/TN/IND/88943/2013 Mill Expansion Plan of Unit-2, Installation of Paper Machine, Pulp Mill, Chemical Recovery Island, and Augmentation of Co-Generation Plant and utilities at TNPL Unit2, Mondipatti, Tiruchy.	EC/M/COMPLIANCE/20354229/2024 SW/88939/2018	TAMIL NADU TIRUCHIRAPPALLI	2024	01 Jun(01 Oct - 31 Mar)	Submission of six monthly compliance report for the conditions stipulated in EC accorded by MOEFCC for the period from October 2023 to March 2024	28-05-2024	Under Examination	View Report View Documents
2	IA/TN/IND/88943/2013 Mill Expansion Plan of Unit-2, Installation of Paper Machine, Pulp Mill, Chemical Recovery Island, and Augmentation of Co-Generation Plant and utilities at TNPL Unit2, Mondipatti, Tiruchy.	EC/M/COMPLIANCE/17360810/2023 SW/88939/2018	TAMIL NADU TIRUCHIRAPPALLI	2023	01 Dec(01 Apr - 30 Sep)	Submission of six monthly compliance report for the conditions stipulated in EC accorded by MOEFCC for the period from April/ 23 to September'23	28-10-2023	Submitted Successfully	View Report View Documents



Tamil Nadu Newsprint and Papers Limited



(A Government of Tamil Nadu Enterprise)

Kagitha Nagar, Mondipatti, K.Periyapatti Post, Manapparai Taluk,
Tiruchirappalli District, Tamil Nadu, India - 621 306. Phone: 04332-261600 Cell: 94890 12793
Purchase : 04332 - 265102, Mktg : 04332 - 265265, HR - 04332 - 265275



ENV/TNPCB/UNIT II/224

18th September, 2024

To

**The Joint Chief Environmental Engineer,
Tamil Nadu Pollution Control Board,
25, SIDCO Developed Plot Estate,
Thuvakudy, Trichy – 620 105.**

Dear Madam,

**Sub: TNPL Double coated Multilayer Paper Board Plant & Captive Power Plant –
Environmental Statement (Form V) Furnished details – reg**

We enclosed the Environmental Statement pertaining to TNPL Double Coated Multilayer Paper Board Plant and Captive Power Plant for the financial year ending 31st March 2024, in Form V duly filled in with all relevant details as per Environmental (Protection) Act, 1986 and rules 1986.

This is for your kind information.

Thanking you,

For Tamil Nadu Newsprint and Papers Limited,

(DVSSA Bhanu Prasad)

CHIEF GENERAL MANAGER (OPERATIONS)

Cc: The District Environmental Engineer,
TNPCB

TNPL Corporate Office

67, Mount Road, Guindy, Chennai, TN, India - 600 032.
Phone: 044-22354415,16,18 22301094 to 97
E - mail: response@tnpl.co.in, Web: www.tnpl.com
Corporate ID No : L 22121 TN 1979 PL C 007799

TNPL Unit - I - Paper Plant

Kagithapuram - 639 136, Pugalur Taluk,
Karur Dist. Tamil Nadu, India.
Phone: (0091) 04324-277001 to 10
Cell : 94860 41341 to 41343

TNPL – MAKER OF BAGASSE BASED ECO – FRIENDLY PAPER





Tamil Nadu Newsprint and Papers Limited



(A Government of Tamil Nadu Enterprise)

Kagitha Nagar, Mondipatti, K.Periyapatti Post, Manapparai Taluk,
Tiruchirappalli District, Tamil Nadu, India - 621 306. Phone: 04332-261600 Cell: 94890 12793
Purchase : 04332 - 265102, Mktg : 04332 - 265265, HR - 04332 - 265275



ENV/TNPCB/UNIT II/224

18th September, 2024

To

**The District Environmental Engineer,
Tamil Nadu Pollution Control Board,
25, SIDCO Developed Plot Estate,
Thuvakudy, Trichy – 620 105.**

Dear Madam,

**Sub: TNPL Double coated Multilayer Paper Board Plant & Captive Power Plant –
Environmental Statement (Form V) Furnished details – reg**

We enclosed the Environmental Statement pertaining to TNPL Double Coated Multilayer Paper Board Plant and Captive Power Plant for the financial year ending 31st March 2024, in Form V duly filled in with all relevant details as per Environmental (Protection) Act, 1986 and rules 1986.

This is for your kind information.

Thanking you,

For Tamil Nadu Newsprint and Papers Limited,

(DVSSA Bhanu Prasad)

CHIEF GENERAL MANAGER (OPERATIONS)

Cc: The Joint Chief Environmental Engineer,
TNPCB

TNPL Corporate Office

67, Mount Road, Guindy, Chennai, TN, India - 600 032.
Phone: 044-22354415,16,18 22301094 to 97
E - mail: response@tnpl.co.in, Web: www.tnpl.com
Corporate ID No : I 22121 TN 1979 PL C 007799

TNPL Unit - I - Paper Plant

Kagithapuram - 639 136, Pugalur Taluk,
Karur Dist. Tamil Nadu, India.
Phone: (0091) 04324-277001 to 10
Cell : 94860 41341 to 41343

TNPL – MAKER OF BAGASSE BASED ECO – FRIENDLY PAPER



**ENVIRONMENTAL STATEMENT****(FORM – V)****FOR THE YEAR: 2023 -24****TAMIL NADU NEWSPRINT AND PAPERS LIMITED- UNIT II****Mondipatti Village,****K.Periyapatti Post, Manapparai Taluk.****Tiruchirappalli District – 621 306**

FORM - V

(See Rule: 14)

Environmental Audit Report for the financial year ending the 31st March 2024**PART – A**

- (i) Name and address of the Owner/occupier of the Industry, operation or process : TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II.
Mondipatti village, K.Periyapatti post,
Manapparai Taluk. Tiruchirappalli district
Pin code: 621 306
- (ii) Industry category
Primary:- (STC code) : Red
Secondary:- (SIC code)
- (iii) Production capacity – Units
- a) Double Coated Multilayer Paper Board : 200000 MT/Annum
- b) Elemental Chlorine Free (ECF) Chemical Wood Pulp : 140000 MT/Annum
- c) Power Generation : 50MW
- d) Steam : 180TPH
- (iv) Year of establishment : January 2016
- (v) Date of the last environmental statement submitted : 27.09.2023

PART - B

Water and Raw material consumption

A. PAPER BOARD PLANT

SI No	Description	UOM	Quantity
1.	Overall Water Consumption	KL/day	8961
2a)	Process Water Consumption - Board Machine	KL/day	4536
2b)	Process Water Consumption - Pulpmill & Soda Recovery Plant	KL/day	4404
	Total Process Water	KL/day	8940
3.	Water used for boiler feed	KL/day	0
4.	Water used for Cooling purpose	KL/day	0
5.	Domestic Water	KL/day	21

B. CAPTIVE CO GEN PLANT

SI No	Description	UOM	Quantity
1.	Overall Water Consumption	KL/day	1224
2.	Process Water Consumption	KL/day	919
3.	Water used for boiler feed	KL/day	284
4.	Water used for Cooling purpose	KL/day	
5.	Domestic Water	KL/day	21

Name of Product	Process Water consumption (except Domestic) per unit (MT) of products	
	During the last financial year (2022-2023) (1)	During the current financial year (2023-2024) (2)
Double Coated Multilayer Paper Board	18.0 M3 /MT	16.8 M3 /MT

(ii) RAW MATERIAL CONSUMPTION

Sl. No	Name of the raw material	Name of Products	Consumption of raw material per unit of output	
			During the Last Financial year (2022-23)	During the current Financial year (2023-24)
Unit of measurement			ADMT/MT of Paper Produced	
1.	Wood	Double Coated Multilayer Paper Board	4.375	4.392
2.	Own Hardwood Pulp		0.581	0.640
3.	Imported Hardwood Sulphate Pulp		0.030	0.000
4.	Imported Softwood Sulphate Pulp		0.018	0.023
5.	Imported BCTM Pulp		0.324	0.293
6.	Hardwood Wet lap Pulp		0.001	0.003
7.	Bagasse Wet lap Pulp		0.001	0.000
8.	Imported Waste Paper		0.007	0.000
9.	Indigenous Waste Paper		0.002	0.000

PRODUCTS MANUFACTURED

Double Coated Multilayer Paper Board : 195437 MT

Overall daily average Power Production : 13.49 MW

PART – C

POLLUTION DISCHARGED TO ENVIRONMENT / UNIT OF OUTPUT
(Parameter as specified in the consent issued)

(a) WATER

(i)	Pollutants	Quantity of pollutants discharged (MTs/day)	Quantity of pollutants discharged in (kgs/T) of Paper Board	Concentration of pollutants discharged in (mg/l) except % sodium	Percentage variation from prescribed in discharges standards with reasons
Water	TSS	0.3	0.6	39	Nil
	TDS	14.6	27.3	1844	Nil
	COD	0.7	1.4	94	Nil
	BOD	0.1	0.2	15	Nil
	Chloride	3.7	7.0	471	Nil
	Oil & Grease	0	0	0	Nil
	Sulphates	3.7	7.0	470	Nil
	Na (%)	0.3	0.5	32	Nil

*As per TNPCB Results

Effluent Quantity generation and disposal details:

SI No	Description	UOM	Quantity
01	Pulpmill	KL/day	2588
02	Soda Recovery Plant	KL/day	1393
03	Board Plant	KL/day	4606
04	Captive Co Generation Plant	KL/day	0
Total Effluent quantity generated		KL/day	8588
Total Effluent quantity treated		KL/day	8338
Process Evaporation Loss		KL/day	250
Combined treated Trade Effluent (On Land for irrigation)		KL/day	7933
Combined treated Trade Effluent (Recycling to process)		KL/day	405

(b) AIR

Board Plant (Pulp and Board Manufacturing Facility)

Recovery Boiler:

No of Boiler : 1 No
 Type of Fuel : Black Liquor solids & Furnace Oil
 Type of Firing : Black Liquor spray Guns

Stack attached to Recovery Boiler

Prescribed Norms: PM - 100 mg/NM³; SO₂ - 600 mg/NM³; NO_x - 300 mg/NM³;

SI No.	Emission Parameter	Average Quantity of pollutants emitted (Kgs per day)	Average Quantity of pollutants emitted in (Kg per ton of paper Board)	Average Concentration of pollutants emitted in mg/NM ^{3*}	% variation from prescribed in discharges standards with reasons
1	PM	27.8	0.05	21	Nil
2	SO ₂	191.9	0.34	145	Nil
3	NO _x	259.3	0.46	196	Nil

*As per TNPCB results

Average Quantity of Fuel Fired in Recovery Boiler:

Fuel Fired	Black Liquor dry solids	Furnace Oil
Quantity	30.91 (MT/hr)	0.090 (KL/hr)

Lime Kiln:

No of Unit : 1 No
 Type of Fuel : Furnace Oil
 Type of Firing : Oil Burner

Stack attached to Lime Kiln

Prescribed Norms: PM - 150 mg/NM³; SO₂ - 400 mg/NM³; NO_x - 500 mg/NM³;

SI No.	Emission Parameter	Average Quantity of pollutants emitted (Kgs per day)	Average Quantity of pollutants emitted in (Kg per ton of paper Board)	Average Concentration of pollutants emitted in mg/NM ³ *	% variation from prescribed in discharges standards with reasons
1	PM	16.8	0.03	19	Nil
2	SO ₂	143.2	0.26	162	Nil
3	NO _x	123.7	0.22	140	Nil

*As per TNPCB results

Average Quantity of Fuel Fired in Lime Kiln

Fuel Fired	Furnace Oil
Quantity	0.906 (KL/hr)

CAPTIVE POWER PLANT

Power Boiler:

No of Boiler : 2
 Type of Fuel : Coal, Raw Lignite and Wood Dust
 Type of Firing : Under Bed and Over Bed firing

Stack attached to: Power Boiler

Prescribed Norms: SPM - 50 mg/NM³; SO₂ - 600 mg/NM³; NO_x - 300 mg/NM³;

SI No.	Emission Parameter	Average Quantity of pollutants emitted (Kgs per day)	Average Quantity of pollutants emitted in (Kg per ton of paper Board)	Average Concentration of pollutants emitted in mg/NM ^{3*}	% variation from prescribed in discharges standards with reasons
1	SPM	165.3	0.30	22	Nil
2	SO ₂	2283.5	4.09	304	Nil
3	NO _x	1870.4	3.35	249	Nil

*As per TNPCB results

Average Quantity of Fuel Fired in Power Boiler:

Fuel Fired	Indigenous Coal	Imported Coal	Wood Dust
Quantity (kg/hr)	1385.2	14327.95	3258.64

PART - D
Hazardous Wastes

Name of Hazardous Wastes	TOTAL QUANTITY in MT	
	During the Last financial year 2022-2023	During the Current financial year 2023 - 2024
(a) Used or spent oil	9.84	5.89
(b) Exhaust Air or Gas cleaning residue	0	0
(c) Spent ion exchange resin containing toxic metals	0	0
(d) Chemical sludge from waste water treatment	5717	4732
(e) Lead concentration limit equal to (or) more than 5 mg/l	1.20	1.64
(f) Copper concentration limit equal to (or) more than 25 mg/l	6.68	11.64
(g) Waste exhibits any of the Hazardous characteristics listed in Class C due to the presence of any hazardous constituents in the substances or wastes-(Glass Wool)	0	0

Other Hazardous wastes

Name of Hazardous Wastes	TOTAL QUANTITY in MT	
	During the Last financial year 2022-2023	During the Current financial year 2023-2024
(a) Waste and scrap of paper / paper board of unbleached paper or paperboard or of corrugated paper or paperboard	Nil	Nil
(b) Waste and scrap of paper or paperboard of paper or paperboard, made mainly of mechanical pulp	Nil	Nil
(c) Waste and scrap of paper or paperboard of other, including but not limited to (1) laminated paperboard, (2) Unsorted scrap	Nil	Nil

PART – E

Solid Wastes Generation

DESCRIPTION	TOTAL QUANTITY in MT	
	During the last financial year 2022 - 2023	During the current financial year 2023 - 2024
Solid wastes generation		
<u>(a) From Process</u>		
Plastic Wastes From Board Plant	102.28	Nil
Wood Dust from wood handling Plant	15967	28465
Lime Grits	Nil	2299
<u>(b) From Pollution Control Facility</u>		
MLSS - ETP Secondary Sludge (OD Basis)	194	436
Bio sludge from STP (BD)	0.620	5.103
Boiler Economizer Wet Fly Ash	8144	2162
Boiler Fly ash from ESP	13064	11774
<u>(c) Solid Wastes Recycled/ Disposed / Sold Quantity</u>		
Plastic Waste to Cement manufacturing units	102.28	Nil
Wood Dust	15967	28465
Lime Grits to LSFM (TNPL Cement factory)	Nil	2299
MLSS - ETP Secondary Sludge as Manure	194	436
Bio sludge from STP as Manure	0.620	5.103
Boiler Economizer Wet Fly Ash for Brick manufacturing units	8144	2162
Boiler Fly ash from ESP recycled to LSFM (TNPL Cement factory)	13064	11774

PART – F

The characteristics of solid as well as Hazardous wastes and disposal practice adopted are given below.

Solid wastes

Sl. No	Description	Major constituents: (all values are on OD basis)	Mode of disposal
1	Plastic Waste generated from Waste Paper	Received various types of plastic wastes along with Waste Paper consignment	Disposed to cement Plant for Co Processing
2	Wood Dust from Chipper House	Ash : 2.4% Volatile Matter : 71.5% Fixed carbon : 18.9% Gross Calorific Value : 4000-6000 Kcal/Kg	Wood dust is used as Fuel in Power Boiler
3	Lime grits	Ash : 40 to 60% LOI : 40 to 60%	Used as Raw material in TNPL Cement Plant
4	Bio sludge from ETP-MLSS	Adsorbable Organic Halide - BDL	Composted and used as Manure
5	Boiler Economizer Wet Ash	Ash : 90-95% LOI : 3 - 5%	Disposed to Brick Manufacturing units
6	Boiler Fly ash from ESP	Ash : 88 to 92% LOI : 8 to 12%	Used as Raw material for TNPL Cement & other Cement plant.

HAZARDOUS WASTES

Sl. No	Description	Major Constituents	Mode of disposal
1.	(a) Used or spent oil	Chromium: 0.15 ppm Total Halogens: 3805 ppm Lead: 3.85 ppm Nickel: 0.18 ppm	Disposed to Authorized recyclers for Recover and Reuse
2.	(b) Exhaust Air or Gas cleaning residue	Chromium : 0.11 ppm Lead: 0.39 ppm Nickel: 0.23 ppm Zinc : 0.53 ppm Copper : 0.83 ppm	Disposed to CHWTSDF for Landfill
3.	(c) Spent ion exchange resin containing toxic metals	Chromium : 0.11 ppm Lead: 0.72 ppm Nickel: 0.008 ppm Zinc : 0.10 ppm Copper : <2 ppm	Captive utilization as a fuel in Power boilers for energy recovery in M/s. TNPL, Unit - II, captive Cogeneration Plant.
4.	(d) Chemical sludge from waste water treatment	Gross Calorific value: 2922 Kcal/kg (OD basis) Organics: 60-70% Inorganics: 30-40%	Captive utilization as a fuel in Power boilers for energy recovery in M/s. TNPL, Unit - II, captive Cogeneration Plant and at times send to cardboard manufacturers to be used as raw material.
5.	(e) Lead concentration limit equal to (or) more than 5 mg/l	Wastes mainly contains lead	Disposed to Authorized recyclers for Recover and Reuse
6.	(f) Copper concentration limit equal to (or) more than 25 mg/l	Wastes mainly contains copper and its alloy such as brass, bronze etc.,	Disposed to Authorized recyclers for Recover and Reuse
7.	(g) Waste exhibits any of the Hazardous characteristics listed in Class C due to the presence of any hazardous constituents in the substances or wastes- (Glass Wool)	Chromium : <0.1 ppm Lead: <0.1 ppm Nickel: <0.1 ppm Zinc : 0.61 ppm Copper : <0.1 ppm	Disposed to CHWTSDF for Landfill

TNPL UNIT II

GREEN BELT DEVELOPMENT/ IRRIGATION SCHEME

The area allocated for greenery development under Captive Power Plant, Board Plant and Additional areas pertaining to TNPL Unit-II is summarized as below:

Power Plant (Mondipatti)

Total extent of Land Area (in Hectares)	16.187
Green belt/Irrigation area developed (in Hectares) :	6.465

Board Plant (Mondipatti)

Total extent of Land Area (in Hectares)	106.872
Green belt/Irrigation area developed (in Hectares) :	46.555

Additional area in Chettichatram & K. Periyapatti

Total extent of Land Area (in Hectares)	231.129
Green belt/Irrigation area developed (in Hectares) :	210.663

Total Green Belt/Irrigation Area (in Ha): $5.665 + 36.155 + 210.663 = 272.949$ Hect.

i.e. Total area covered under plantation using treated effluent = 252.483 Hect.

TABLE A: Summary of TNPL Unit II Tree planting details as on 31/03/2024

Sl No	Area	Total area so far covered in Hectares	Total No. of trees so far planted
01	Captive Power Plant (Mondipatti)	6.465	28,290
02	Board Plant (Mondipatti)	46.555	1,00,590
03	Additional Area in Chettichatram & K. Periyapatti	210.663	6,82,903

*Out of 231.129 Hectares, 20.466 hectares are TNPL Unit – II Township. Remaining area of 210.663 Ha is under greenbelt area.

TABLE B:
Tree planted details in Captive Power Plant (Mondipatti) as on 31/03/2024

Sl. No	Name of the Tree	No. of Trees
1	Millingtonia (Maramalli)	520
2	Polyalthiya longifolia	48
3	Pongamia pinnata (Pungam)	305
4	Syzygium cumini (Jamun)	25
5	Terminalia catappa (Badam)	850
6	Thespesia populnea (Puvarasu)	80
7	Eucalyptus hybrid (Eucalyptus)	11899
8	Casuarina equisetifolia (Casuarina)	13744
9	Muntingia calabura (Singapore cherry)	16
10	Mimusops elengi (Mahilam)	21
11	Azadirctia indica (Neem)	47
12	Kigelia pinnata (Siva kundalam)	21
13	Conocarpus erectus (Button wood)	300
14	Peltophorum pterocarpum (Pheltophorum)	396
15	Cassia Fistula (Sarakondrai)	2
16	Deloxix regia (Gulmuhar)	16
	TOTAL	28290

TABLE C:

Tree planted details in Board Plant (Mondipatti) as on 31/03/2024

Sl. No	Name of the Tree	No. of Trees
1	Acrocarpus fraxinifolius (Pink Cedar)	810
2	Azadirachta indica (Neem)	954
3	Casuarina Hybrid (Casuarina)	48,796
4	Dalbergia sisoo (Sisu)	15,108
5	Delonix regia (Gulmour)	287
6	Eucalyptus Hybrid	30,614
7	Ficus benghalensis (Alam)	104
8	Ficus religiosa (Arasu)	108
9	Caryota mitis (Fishtail palm)	53
10	Lagerstroemia speciosa (Pride of India)	34
11	Tectona grandis (Teak)	637
12	Ficus Racemosa (Fig)	10
13	Terminalia arjuna (Arjun tree)	100
14	Bauhinia purpurea (Mantharai)	391
15	Thespesia populnea (Portia tree)	95
16	Simarouba glauca (Paradise tree)	95
17	Conocarpus erectus (Button wood)	319
18	Millettia pinnata (Pungan)	500
19	Millingtonia hortensis (Tree Jasmine)	215
20	Mimusops elengi (Magilam)	200
21	Muntingia calabura (Singapur jerry)	200
22	Peltophorum pterocarpum (Copperpod)	142
23	Terminalia catappa (Almond)	370
24	Wodyetia bifurcate (Foxtail palm)	110
25	Terminalia Mantaly (Carparking tree)	25
26	Albizia lebbeck (Indian siris)	28
27	Samanea saman(Rain Tree)	285
	TOTAL	100590

TABLE D:

Tree planted details in Additional Area in Chettichatram & K. Periyapatti as on 31/03/2024

S.No	Name of the Tree	No. of Trees
1	Acacia auriculiformis (Earleaf acacia)	10673
2	Ficus benghalensis (Alam)	209
3	Acacia mangium (Manguim)	28214
4	Phyllanthus emblica (Indian gooseberry)	3056
5	Ficus religiosa (Arasu)	65
6	Saraca asoca Ashoka	1
7	Terminalia catappa (Almond)	2380
8	Bambusa balcooa (Thorn less bamboo)	12881
9	Majidea zangueberica (Black pearl tree)	5
10	Senna siamea (Yellow cassia)	4760
11	Anacardium occidentale (Cashewnut)	2756
12	Casuarina equisetifolia (Costal Pine)	35154
13	Casuarina hybrid (Costal Pine)	221657
14	Casuarina junghuhniana (Inland casuarina)	72953
15	Cocos nucifera Coconut (AT)	799
16	Cocos nucifera Coconut (D x T)	302
17	Cocos nucifera Coconut (Dwarf-Orange)	482
18	Cocos nucifera Coconut (ECT)	1839
19	Cocos nucifera Coconut (T x D)	1625
20	Cocos nucifera Coconut (WCT)	448
21	Croscientia cujete (calabash tree)	5
22	Eucalyptus tereticornis (Eucalyptus)	55811
23	Gmelina arborea (Kumil)	240
24	Psidium guajava (Guava) / Artocarpus heterophyllus (Jack)/ Pithecellobium dulce/ Citrus limon (Lemon)	5905
25	Delonix regia (Gulmohar)	212
26	Madhuca longifolia (Iluppai)	211
27	Neolamarckia cadamba (Kadam)	15551
28	Diospyros Ebenum (Karungali)	8
29	Khaya senegalensis (Africa mahogany)	9150
30	Leucaena leucocephala (Leuceana)	10060
31	Swietenia mahagoni (Indian Mahagony)	10871
32	Mangifera indica (Mango)	10000
33	Melia dubia (Malaivembu)	28385

S.No	Name of the Tree	No. of Trees
34	Azadirachta indica (Neem)	11395
35	Terminalia arjuna (Neer marudhu)	5335
36	Cestrum nocturnum (Night queen tree)	5
37	Morinda citrifolia (Noni Tree)	5
38	Peltophorum pterocarpum (Copperpod)	30
39	Punica granatum (Pomegranate)	2000
40	Thespesia populnea (Poovarasu) / Pongamia pinnata (Pungan)	6557
41	Calophyllum inophyllum (Punnai)	5
42	Putranjiva roxburghii (Puthrajeevi)	5
43	Pterocarpus santalinus (Red sandal)	3000
44	Dalbergia latifolia (Rose wood)	2740
45	Santalum album (Sandal)	2271
46	Manilkara zapota (Sappota) / Annona squamosa (Seethapal)	907
47	Ceiba pentandra (Silk cotton)	2200
48	Grevillea robusta (Silver Oak)	700
49	Dalbergia sissoo (Sissoo)	64645
50	Sapindus emarginatus (Soap nut)	5
51	Averrhoa carambola (Star fruit)	5
52	Tamarindus indica (Tamarind)	2975
53	Tectona grandis (Teak)	20963
54	Albizia lebbeck (Vagai)	2777
55	Bixa orellana (Lipstic tree)	5
56	Conocarpus erectus (Button wood)	800
57	Syzygium aqueum Water apple	5
58	Musa paradisiaca (Banana)	3500
59	Borassus flabellifer (Toddy palm)	450
60	Khaya anthotheca (East African mahogany)	500
61	Vachellia nilotica (Gum arabic)	200
62	Terminalia chebula (Kadukkai)	400
63	Terminalia bellirica (Thandri)	1850
	Grand Total	6,82,903

PART – H

Additional measures / Investment proposals for Environmental Protection including Abatement of Pollution, Prevention of Pollution

Implementation Of Kurunkadugal- Karnampatti, Vadaseri Village

Sl. No.	Name and Address of the unit	Type and Category of industry	Land available in Industry premises/nearby Govt. land in which industry proposes to develop trees under "Kurunkadugal Scheme" (sq.m)	Name/Number of trees to be developed
1	Tamil Nadu Newsprint & Paper Limited, Unit-II Mondipatti Village, Manapparai, Tiruchchirappalli 621306	Sustainable producer of packaging board and Pulp	Karur District, Thogaimalai block, Vadaseri Revenue Village, Karanampatty hamlet. Panchayat Land Lat: 10.4315.96 Lon: 78.304.26 Extend : 32000 Sq.m	Tamarind (100) Jamun (100) Indian Elm (100) Pungam (100) Neem (150) Indian Almond (100) Banyan (100) Vagai (100) Arjuna (100) Butter tree (50) Poovarasu (50) Cluster Fig (50) Vetpalai (50) Sacred Fig (50)

Location of Karnampatti



- World Ozone Day was celebrated on 16th September 2023 by fixing Banners at the entrance gates of the mill. Pledge was taken by all the employees and workers to create awareness.



- Construction of Storm water drains of 2160 metres length & collection Tank were made to collect and reuse the rain water.



- Every half year Environmental Quality Assessment in the use of Paper Board Industry (TNPL Unit II) Waste Water for Agro-Forestry System is being done by Anbil Dharma lingam Agricultural College and Research Institute Tiruchirappalli - 620 009

- As a part of environment protection and to maintain hygiene in work place 5 colour coded bins were placed at various places of the unit



Details of CER activities for the year 2023-2024 are as follows:

According to the directions of Ministry of Environment, Forest and Climate Change [MoEF&CC], CER activities are being carried out in Unit-II under the following 5 sectors, since 2019.

1. Education
2. Health care and medical service
3. Socio economic development and security
4. Environment and sanitation
5. Culture and Heritage

During the financial year 2023-24, TNPL Unit-II has spent Rs.1 Crore and had done various programmes under CER.

1. Education sector :

- Organized sports events at nearby Govt. Higher secondary school (3 nos.), Govt. High schools (4 nos.), Panchayat union Middle schools (2 nos.) and panchayat Union Primary schools (15 nos.) with the help of P.E.T teachers. Distributed prizes and Certificates to the winners of the competitions at the respective schools.

Total Expenses: 4.485 Lakhs

- Provided 50 gm boiled cereals/pulses to X & XII standard students of nearby Government High/Higher secondary schools for attending special coaching classes after school working hours for the period of 4 months [Dec, Jan, Feb & Mar].

Total Expenses: 7.318 Lakhs

- Sponsored Rs. 50,000 to St. Joseph's College, Commerce department for organising National level Inter - School Management fest (JONEST - 2024).

Total Expenses: 0.500 Lakhs

- Sponsored Rs. 5 Lakhs to Trichy District Collector for organising a Grand Book Fair Festival 2023 from 24.11.2023 to 04.12.2023 at St. Joseph's School Ground for public and student community of Trichy District.

Total Expenses: 5.000 Lakhs

2. Health care and medical service :

- Organized free eye camp at Govt. High school, Pathiripatti in association with Aravind Eye hospital, Madurai for the nearby village public.

Total Expenses: 0.824 Lakhs



- Organized Free General Medical Camp at Vadakkuserpatti High school in association with Royal Care Super Specialty Hospital, Coimbatore for the public of 4 Panchayats.

Total Expenses: 2.635 Lakhs



3. Socio economic development and security

- Handed over a DD for Rs.11 lakhs to BDO, Thogaimalai (as public contribution) towards formation of Tar road at Pathripatti Panchayat on Tamilnadu Govt's Self Sufficiency Scheme.

Total Expenses: 11.000 Lakhs



4. Environment and sanitation

- Biodiversity Conservation, Restoration of water bodies, Soil Moisture Conservation, Tree Planting and Afforestation.

Total Expenses: 52.250 Lakhs





5. Culture and Heritage

- Provided Kambu & Solam to Peacocks Sanctuary at Arulmigu Sri Subramaniya swamy Temple, Viralimalai, Pudukottai District.

Total Expenses: 0.456 Lakhs



- Provided paver block flooring works around Sri Mariamman & Sri Madhuraiveeran temple at Mondipatti village.

Total Expenses: 2.577 Lakhs



- Provided Paver block flooring works and construction of Sump pit for Karagam lifting purpose for Sri Kalamman and Sri Karupasamy temples at Poduvarpatti village.

Total Expenses: 3.785 Lakhs



- Provided Paver block flooring works and Structural shed (2 nos.) for Sri Karuppasamy and Sri Murugan temple at kalingapatti village.

Total Expenses: 2.948 Lakhs



- Provided Lean to roof shed and Paver block flooring at Sri Muniappan, Sri Karuppasamy and Sri Kannimar temple at Oothupatti village.

Total Expenses: 4.949 Lakhs



- Provided paver block flooring in Sri Madhuraiveeran and Sri Vinayagar temple at Chettichatram village.

Total Expenses: 2.833 Lakhs



- Provided paver block flooring works for Sri Kalliamman temple at Ponnampatti village.

Total Expenses: 2.383 Lakhs





-----END OF THE REPORT----

Status Of Compliance - Conditions Of Consent Order No 2207243671275 Dated 15.07.2022

Under Section 21 Of **Air Act** Issued By TNPCB - **Consent To Operate For Expansion (Phase 1)**

M/s Tamil Nadu Newsprint And Papers Limited, Unit-II (**Paper Board Unit**) for the Period

April'2024 to September'2024

S.No	Additional Specific Condition	Compliance Details
1	The unit shall maintain and operate the equipments and APC measures for Phase I of the Expansion activity.	<p>The following machineries have been installed under Phase I of the Expansion activity and are being operated and maintained.</p> <ol style="list-style-type: none">1. ECF Hardwood Pulpmill of capacity 1,65,000 TPA .2. Recovery plant including Recovery Boiler to fire 1100 TPD of black liquor solids3. Lime Kiln of capacity 250 TPD  <p>Further, the details of APC measures are submitted along with the compliance report.</p>
2	The unit shall install non condensable gas collection and destruction system to mitigate all malodorous gases emitted within 3 months time as committed by the unit.	A full fledged NCG collection and incineration system is installed and in operation continuously. Details of the same are submitted along with the compliance report.
3	The unit shall provide adsorption system followed by wet scrubber system for deodorization purpose in the pulp section and odour destruction system in chemical recovery plant within 3 months time as committed.	<p>Scrubber System in Pulp Section: DNCG Scrubber :</p> <p>The diluted non condensable gases (DNCG) from the tanks and equipments from the digester until oxygen stage is collected and connected to a DNCG scrubber.</p> 

Status Of Compliance - Conditions Of Consent Order No 2207243671275 Dated 15.07.2022

Under Section 21 Of **Air Act** Issued By TNPCB - **Consent To Operate For Expansion (Phase 1)**

M/s Tamil Nadu Newsprint And Papers Limited, Unit-II (**Paper Board Unit**) for the Period

April'2024 to September'2024

S.No	Additional Specific Condition	Compliance Details
		<p>The scrubbed gases from DNCG scrubber is fired in the Chemical Recovery Boiler.</p> <p>Bleach Plant Scrubber: Bleach plant scrubbing system is installed and in operation to absorb both chlorine and chlorine dioxide vapours from bleach plant.</p>  <p>Scrubber System in Chemical Recovery Section: Primary and secondary venturi scrubbers are installed to control emissions from chemical recovery boiler.</p>  <p>A full fledged NCG collection and incineration system is installed and in operation continuously. Details of the same are submitted along with the compliance report.</p>
4	The unit shall identify all sources of odour pollution and odorous compound emitted from the process utility and shall provide appropriate odour control measures.	All sources of odour pollution and odorous compound emitted from Pulpmill and Chemical recovery plant are identified and a Full-fledged odour control system is put into operation and the same are submitted along with the compliance report.
5	The unit shall operate and maintain the Air	All the Pollution Control measures are being

Status Of Compliance - Conditions Of Consent Order No 2207243671275 Dated 15.07.2022Under Section 21 Of **Air Act** Issued By TNPCB - **Consent To Operate For Expansion (Phase 1)**M/s Tamil Nadu Newsprint And Papers Limited, Unit-II (**Paper Board Unit**) for the Period**April'2024 to September'2024**

S.No	Additional Specific Condition	Compliance Details
	Pollution Control measures efficiently and continuously so as to achieve the emission/AAQ standards prescribed by the Board.	operated and maintained continuously to maintain within the norms prescribed for emission/AAQ standards. Details of the same are submitted along with the compliance report.
6	The unit shall adhere to Ambient Noise Level standards prescribed by the Board.	Ambient Noise level survey is being carried out through independent labs possessing valid accreditation. Latest ROA reveals that the values are well within the prescribed limit and the same is a submitted along with the compliance report.
7	The unit shall connect the online continuous emission monitoring system provided for the parameters PM, NOx, SOx in the recovery boiler and the parameter PM in the lime kiln with CAC, TNPCB, Chennai and CPCB server within a month time.	The Online continuous emission monitoring system for the parameters PM, NOx, SOx in the recovery boiler and the parameter PM in the lime kiln are connected with CAC, TNPCB, Chennai and CPCB server and real time data are being electronically transmitted to relevant servers. Real time data for the month of Apr'24 to Sep'24 is submitted along with the compliance report.
8	The unit shall provide online continuous emission monitoring system for the parameter H2S in the recovery boiler and NOx, SOx and H2S in the lime kiln and connect the same to the CAC. TNPCB. Chennai and CPCB server within three months time.	The Online continuous emission monitoring system for the parameters H2S in the recovery boiler and the parameters NOx, SOx and H2S in the lime kiln are connected with CAC, TNPCB, Chennai and CPCB server and real time data are being electronically transmitted to relevant servers. Real time data for the month of Apr'24 to Sep'24 is submitted along with the compliance report.
9	The unit shall ensure the connectivity of the CAAQMS for the parameters PM10, PM2.5, NOx, SO2, and CO with CAC of TNPCB, Guindy, Chennai and provide proper data at all times.	The CAAQMS installed to monitor the parameters, viz., PM10, PM2.5, NOx, SO ₂ , and CO has been connected with CAC of TNPCB, Guindy, Chennai and the same is being operated continuously. The real time data being collected from the system is being electronically transmitted to CAC of TNPCB at regular intervals. Real time data for the month of Apr'24 to Sep'24 is submitted along with the compliance report.
10	The unit shall provide additional 1 No of CAAQMS for the parameters to monitor the parameters PM2.5, PM10, SOx, NOx, H2S, CH4, C12, HCNM, and HCT in the down wind direction and connect the same to the CAC, TNPCB, Chennai within six month time.	Additional new CAAQMS is commissioned in the location (First floor of the West gate) approved by The Assistant Director, AEL, TNPCB on 29.06.2023 and connected to TNPCB and CPCB servers. Real time data report of new CAAQMS for the month of Apr'24 to

Status Of Compliance - Conditions Of Consent Order No 2207243671275 Dated 15.07.2022

Under Section 21 Of **Air Act** Issued By TNPCB - **Consent To Operate For Expansion (Phase 1)**

M/s Tamil Nadu Newsprint And Papers Limited, Unit-II (**Paper Board Unit**) for the Period

April'2024 to September'2024

S.No	Additional Specific Condition	Compliance Details
		Sep'24 is submitted along with the compliance report.
11	All the recommendations made in the CREP for pulp and paper sector shall be strictly implemented.	Compliance to CREP Guidelines is submitted along with the compliance report.
12	The unit shall continue to develop and maintain the green belt within the premises and furnish green belt area earmarked/developed in the unit premises and furnish photographs every year.	TNPL has planted 7.87 lakhs tree saplings in 643.71 Acres earmarked for green belt development as per the details submitted along with the compliance report.
13	The unit's activity shall not invite any public complaint.	TNPL abides to this condition.

Status Of Compliance-Conditions Of Consent Order No 2207143671275 Dated 15.07.2022Under Section 25 Of **Water Act** Issued By TNPCB - **Consent To Operate For Expansion (Phase 1)**M/s Tamil Nadu Newsprint And Papers Limited, Unit-II (**Paper Board Unit**) for the period**April'2024 to September'2024**

S.No	Additional Specific Condition	Compliance Details
1	The unit shall not exceed the consented production capacity and the generation of sewage and trade effluent.	TNPL abides to the consented Production Capacity and generation of sewage and trade effluent quantity 1. Paper Board - 200000 MT/A 2. ECF Chemical Wood Pulp - 140000 MT/A 3. Trade Effluent - 10615 KLD 4. Sewage - 90KLD
2	The unit shall operate and maintain all the components of STP for the treatment of sewage efficiently and continuously and the treated sewage shall be utilized on industry's own land for gardening after satisfying the standards prescribed by the Board.	The components of STP are being operated and maintained continuously to treat the sewage and the entire treated sewage meeting the norms prescribed by TNPCB is utilized for gardening within the plant premises. Latest ROA of treated sewage carried out through independent labs possessing valid accreditation is submitted along with compliance report.
3	The unit shall operate and maintain the existing ETP (9 MLD) and new ETP for Expansion (15 MLD) efficiently and continuously for the treatment of trade effluent generated from this unit and the treated trade effluent shall be utilized for irrigation/recycled in its process after satisfying the standards prescribed by the Board. The unit shall utilize the treated trade effluent for irrigation purposes on its irrigation lands earmarked for the purposes.	Effluent Treatment Plant of 15 MLD is being operated continuously & efficiently to treat the trade effluent generated and the entire treated effluent meeting the norms prescribed by TNPCB. The treated effluent is fully utilized to irrigate 6.63 Lakhs of tree saplings in 674.64 Acres earmarked for green belt development including housing colony located in the Mondipatti Village and additional lands located in K. Periyapatti and Chettichatram through drip irrigation. Green Belt details are submitted along with compliance report.
4	The unit shall install EMFM at the raw water inlet pipe and also at appropriate locations so as to assess the quantity of trade effluent generated, treated and disposed for various purposes.	EMFM are available at the Raw Water Inlet and also at the below processes to access the trade effluent generated from such processes 1. Chipper House Area 2. Pulpmill Area

Status Of Compliance-Conditions Of Consent Order No 2207143671275 Dated 15.07.2022

Under Section 25 Of **Water Act** Issued By TNPCB - **Consent To Operate For Expansion (Phase 1)**

M/s Tamil Nadu Newsprint And Papers Limited, Unit-II (**Paper Board Unit**) for the period

April'2024 to September'2024


S.No	Additional Specific Condition	Compliance Details
		3. SRP 4. WPP 5. Board Plant EMFM are also available to assess the quantity of treated effluent, on land irrigation disposal and Internal recycle.
5	The unit shall ensure that under any circumstances does not discharge either treated or untreated trade effluent into nearby water bodies private lands outside the premises of the unit either directly or indirectly.	The entire trade effluent generated is being treated in Effluent Treatment Plant and the treated effluent meeting the norms prescribed by TNPCB is utilized to irrigate the tree saplings planted in the mill premises through drip irrigation / recycled in the process. Latest ROA of treated effluent carried out through independent labs possessing valid accreditation is submitted along with compliance report.
6	The unit shall comply with the Guidelines for Utilization of Treated Effluent in Irrigation issued by CPCB during September 2019.	Compliance to the Guidelines for Utilization of Treated Effluent in Irrigation issued by CPCB during September 2019 is submitted along with compliance report.
7	The unit shall ensure that utilization of treated trade effluent for green belt development shall not pollute the soil and ground water in and around the project area either directly or indirectly under any circumstances.	The quality of ground water quality is being monitored by TNAU, TNPCB, NABL accredited Laboratory and also the soil quality by TNAU periodically so as to ensure that utilization of treated trade effluent for green belt development shall not pollute the soil and ground water in and around the project area either directly or indirectly under any circumstances. Latest ROA of Ground Water carried out through independent labs possessing valid accreditation during Sep'24 is submitted along with compliance report.

Status Of Compliance-Conditions Of Consent Order No 2207143671275 Dated 15.07.2022

Under Section 25 Of **Water Act** Issued By TNPCB - **Consent To Operate For Expansion (Phase 1)**

M/s Tamil Nadu Newsprint And Papers Limited, Unit-II (**Paper Board Unit**) for the period

April'2024 to September'2024

S.No	Additional Specific Condition	Compliance Details
8	The unit shall maintain log book with proper entries for receipt of raw materials, chemicals used for process, quantity of water usage, quantity of effluent from all sources separately, solid waste generation, storage, disposal and quantity of product manufactured.	Logbooks are being maintained in respective departments for receipt of raw materials, chemicals used for process, quantity of water usage, quantity of effluent from all sources, solid waste generation, storage, disposal and quantity of product manufactured.
9	All pipes, valves, sewers and drains shall be leak proof. Floor washings shall be admitted in to the effluent collection system only and shall not be allowed to find their way to storm water drains or open areas.	All pipes, valves, sewers and drains are being checked periodically for any leakages. Floor washings are being admitted only to the effluent collection system.
10	The unit shall provide suitable arrangements for surface runoff, if any, will be collected and disposed through storm water drains.	Surface runoff water is being collected and disposed through storm water drains. 
11	The unit shall collect the water samples from 16 Nos. of piezo metric wells provided at the land areas earmarked for utilizing treated trade effluent and analyze the same so as to monitor aground water quality and furnish report to Board.	Piezo metric well water is being tested annually by TNPCB Laboratory and also through NABL accredited laboratory to monitor ground water quality. Latest ROA of Piezo metric well water samples carried out through independent labs possessing valid accreditation during Apr'24 is

Status Of Compliance-Conditions Of Consent Order No 2207143671275 Dated 15.07.2022

Under Section 25 Of **Water Act** Issued By TNPCB - **Consent To Operate For Expansion (Phase 1)**

M/s Tamil Nadu Newsprint And Papers Limited, Unit-II (**Paper Board Unit**) for the period

April'2024 to September'2024

S.No	Additional Specific Condition	Compliance Details
		submitted along with compliance report.
12	The unit shall furnish the annual report regarding monitoring of land earmarked for utilizing the treated trade effluent, obtained from TNAU on a yearly basis and shall comply with the recommendations made in the annual report of TNAU.	TNAU Annual Report for the period Apr'23 to Mar'24 is submitted along with compliance report.
13	The unit shall maintain the online continuous monitor for effluent parameters flow, pH, BOD, COD and TSS and ensure the connectivity with Water Quality Watch of TNPCB at all times.	Online continuous monitor for effluent parameters flow, pH, BOD, COD and TSS are connected with Water Quality Watch of TNPCB. Real Time data for the period Apr'24 to Sep'24 is submitted along with compliance report.
14	All the recommendations made in the CREP for pulp and paper sector shall be strictly implemented.	Compliance to CREP Guidelines is submitted along with compliance report.

Status Of Compliance-Conditions Of Consent Order No 2207143671275 Dated 15.07.2022

Under Section 25 Of **Water Act** Issued By TNPCB - **Consent To Operate For Expansion (Phase 1)**

M/s Tamil Nadu Newsprint And Papers Limited, Unit-II (**Paper Board Unit**) for the period

April'2024 to September'2024

S.No	Additional Specific Condition	Compliance Details
15	The unit shall comply with the conditions stipulated in the Hazardous Waste Authorization obtained under Hazardous and Other Waste (M&TM) Rules, 2016 and the hazardous wastes generated shall be properly handled and disposed as per the said Rules.	<ul style="list-style-type: none">➤ Hazardous Waste Authorization 24HFC45404642 dated 09.02.2024 valid till 31.03.2028. Further, the following activities are also being undertaken in compliance to the conditions stipulated in the HOWR'2016.➤ Inventory of Hazardous wastes are being maintained in Form 3.➤ Annual returns of Hazardous waste are being submitted in Form 4.➤ Form 8 (labelling) and Form 9 (TREM card) are being followed during disposal of Hazardous wastes.➤ Manifest system (Form 10) is being maintained during disposal of Hazardous wastes.
16	The unit shall collect and dispose the non-hazardous solid wastes then and there without accumulating inside the premises.	Non-Hazardous solid wastes are being collected then and there and disposed off regularly.
17	The unit shall comply with the conditions stipulated in the environmental clearance obtained from the MoEF&CC, New Delhi vide F.No.J-11011/172/2017-IA-II(I) dated 04.04.2019.	The conditions stipulated in the Environmental Clearance No. F.No.J-11011/172/2017-IA-II(I) dated 04.04.2019. are being complied. Further, the compliance report on this regard is being submitted once in six months to relevant statutory authorities, viz., MoEF&CC, SEIAA, CPCB and TNPCB by applicable mode of communication viz., by email, uploading in the Parivesh web portal, submission of hard copies. Latest EC Compliance Report for the period 01 st Oct 2023 to 31 st March 2024 is

Status Of Compliance-Conditions Of Consent Order No 2207143671275 Dated 15.07.2022

Under Section 25 Of **Water Act** Issued By TNPCB - **Consent To Operate For Expansion (Phase 1)**

M/s Tamil Nadu Newsprint And Papers Limited, Unit-II (**Paper Board Unit**) for the period

April'2024 to September'2024

S.N o	Additional Specific Condition	Compliance Details
		submitted on 28.05.2024. In addition, a copy of the EC along with latest compliance report of the same are being uploaded and maintained in TNPL web site. (www.tnpl.com).

Status Of Compliance-Conditions Of Consent Order No 2207243608442 Dated 15.07.2022

Under Section 21 Of **Air Act** Issued By TNPCB - **Consent To Operate For Expansion** (Phase 1)

M/s Tamil Nadu Newsprint And Papers Limited, Unit-II (**Captive Co Gen Plant**) for the Period
April'2024 to September'2024

S.No	Additional Condition	Compliance Details
1	The unit shall comply with the conditions mentioned in the Environmental Clearance issued by MoEF & CC vide F.No..J-11011/172/2017-IA-II (I) dated 04.04.2019.	<p>The conditions stipulated in the Environmental Clearance No. F.No.J-11011/172/2017-IA-II(I) dated 04.04.2019. are being complied. Further, the compliance report on this regard is being submitted once in six months to relevant statutory authorities, viz., MoEF&CC, SEIAA, CPCB and TNPCB by applicable mode of communication viz., by email, uploading in the Parivesh web portal, submission of hard copies.</p> <p>Latest EC Compliance Report for the period 01st Oct 2023 to 31st March 2024 is submitted on 28.05.2024. In addition, a copy of the EC along with latest compliance report of the same are being uploaded and maintained in TNPL web site. (www.tnpl.com).</p>
2	The unit shall operate and maintain the air pollution control measures efficiently and continuously so as to adhere to the Ambient Air Quality Emission standards prescribed by the Board.	All the Pollution Control measures are being operated and maintained continuously to maintain within the norms prescribed for under emission/AAQ standards. Details of the same are submitted along with compliance report.
3	The unit shall provide adequate air pollution control measures such as Electro Static Precipitator etc. to the additional boiler proposed to be installed for the expansion as reported.	As the scope of installation of new power boiler is under Phase-2 of expansion, the ESP will be installed along with the new power boiler.
4	The unit shall install Flue gas desulphurization (FGD) system based on lime/ammonia dosing to capture sulphur in the flue gases to meet the SO2 emissions standard of 100mg/Nm3.	As the scope of installation of new power boiler is under Phase-2 of expansion, Flue gas desulphurization (FGD) will be installed along with the new power boiler.

Status Of Compliance-Conditions Of Consent Order No 2207243608442 Dated 15.07.2022

Under Section 21 Of **Air Act** Issued By TNPCB - **Consent To Operate For Expansion** (Phase 1)





M/s Tamil Nadu Newsprint And Papers Limited, Unit-II (**Captive Co Gen Plant**) for the Period
April'2024 to September'2024

S.No	Additional Condition	Compliance Details
5	The unit shall install Selective Catalytic Reduction (SCR) system or the Selective Non-Catalytic Reduction (SCNR) system or low NOx Burners with Over Fire Air(OFA) system to achieve NOx emission standard of 100 mg/Nm ³ .	As the scope of installation of new power boiler is under Phase-2 of expansion, Selective Catalytic Reduction (SCR) system or the Selective Non-Catalytic Reduction (SCNR) system or low NOx Burners with Over Fire Air (OFA) system will be installed along with the new power boiler.
6	The unit shall adhere to the Ambient Noise level standards prescribed by the Board.	Ambient Noise level survey is being carried out through independent labs possessing valid accreditation. Latest ROA reveals that the values are well within the prescribed limit and the same is submitted along with compliance report.
7	The unit shall ensure that emission parameter satisfies the standards prescribed as per MoEF&CC's Notification issued from time to time.	TNPL abides that the emission parameter satisfies the standards prescribed as per MoEF&CC's Notification issued from time to time.
8	The unit shall carry out emission survey for all the consented sources of emission through TNPCB lab and furnish ROA to Board.	Ambient Air Quality, Ambient Noise Level and Boiler Stack survey is being carried out through TNPCB Laboratories and ROA is submitted along with compliance report.
9	The unit shall comply with the Notifications issued by CPCB from time to time for emission standards for thermal power plants.	TNPL complies with the Notifications issued by CPCB from time to time for emission standards for thermal power plants.
10	The unit shall ensure that coal is stored in a closed shed and ensure that there is no fugitive emission due to wind action during loading and unloading operation. .	Coal is being transported in closed trucks and stored in a closed impervious platform. Closed belt conveyors are being used to transport coal from stock yard to existing boiler. Enclosures are provided for transfer towers in coal Handling plant (CHP), Coal feeding shed, coal unloading shed, Cover sheet for all crusher house vibrating screens, covering for Lorry Tippler house etc.

Status Of Compliance-Conditions Of Consent Order No 2207243608442 Dated 15.07.2022

Under Section 21 Of **Air Act** Issued By TNPCB - **Consent To Operate For Expansion** (Phase 1)


M/s Tamil Nadu Newsprint And Papers Limited, Unit-II (**Captive Co Gen Plant**) for the Period
April'2024 to September'2024

S.No	Additional Condition	Compliance Details
		  <p>Closed hoods for coal conveyors</p>  <p>Closed Coal Shed</p> <p>Wind barriers have been provided for a length of 336 meters with a height of 12m along the compound wall of Plant to avoid fugitive emission due to wind action during loading and unloading operation.</p> <p>Mobile road dust cleaning machines is employed to collect coal fines.</p> 

Status Of Compliance-Conditions Of Consent Order No 2207243608442 Dated 15.07.2022

Under Section 21 Of **Air Act** Issued By TNPCB - **Consent To Operate For Expansion** (Phase 1)



M/s Tamil Nadu Newsprint And Papers Limited, Unit-II (**Captive Co Gen Plant**) for the Period
April'2024 to September'2024

S.No	Additional Condition	Compliance Details
11	<p>The Unit shall operate and maintain the following measures for control of fugitive emission.</p> <p>Coal handling plant:</p> <ul style="list-style-type: none">a. To store the coal in a complete closed shed to reduce the emission due to wind.b. Totally enclosed coal conveyors to prevent wind erosion.c. Dust extraction systems at various dust emanating sources such as coal crusher, coal bunker, ash silo and all transfer points.d. Water sprinklers at various places in coal handling areas for wetting of coal.e. Coal movement inside the plant by covered coal conveyors only.f. Black topped roads inside the plant to prevent dust emission due to vehicular movement. <p>Ash handling plant:</p> <ul style="list-style-type: none">a. Dust collectors at various 'places such as Electro Static Precipitators, Air pre heater, Economizers. Etcb. The total dust collection system should be a closed one to prevent	<p>TNPL operates and maintain the following measures for control of fugitive emission.</p> <p>Coal handling plant:</p> <ul style="list-style-type: none">a. Coal is being stored only in a closed impervious Shed.b. Closed belt conveyors are being used to transport coal from stock yard to existing boiler. Enclosures are provided for transfer towers in coal Handling plant (CHP), Coal feeding shed, coal unloading shed, Cover sheet for all crusher house vibrating screens, covering for Lorry Tippler house etc.c. Dust extraction systems are available at transfer points & the given dust emanating sources.  <ul style="list-style-type: none">d. Manual water Sprinklers, are operated in coal storage area and open area in Coal Yard.

Status Of Compliance-Conditions Of Consent Order No 2207243608442 Dated 15.07.2022

Under Section 21 Of **Air Act** Issued By TNPCB - **Consent To Operate For Expansion** (Phase 1)

M/s Tamil Nadu Newsprint And Papers Limited, Unit-II (**Captive Co Gen Plant**) for the Period
April'2024 to September'2024



S.No	Additional Condition	Compliance Details
	<p>exposure of fly ash to atmosphere .</p> <p>c. The dry fly ash loading system for ash silos to load the closed vehicle for transportation to cement plant</p>	 <p>e. Closed belt conveyors are being used to transport coal from stock yard to existing boiler.</p>  <p>f. Concrete roads are provided to avoid dust emission due to vehicular movements.</p>  <p>Ash handling plant:</p> <p>a. Dust collectors such as ESP, APH & economizers at various places are provided.</p> <p>b. All the Dust collection systems are closed to</p>

Status Of Compliance-Conditions Of Consent Order No 2207243608442 Dated 15.07.2022

Under Section 21 Of **Air Act** Issued By TNPCB - **Consent To Operate For Expansion** (Phase 1)

M/s Tamil Nadu Newsprint And Papers Limited, Unit-II (**Captive Co Gen Plant**) for the Period

April'2024 to September'2024

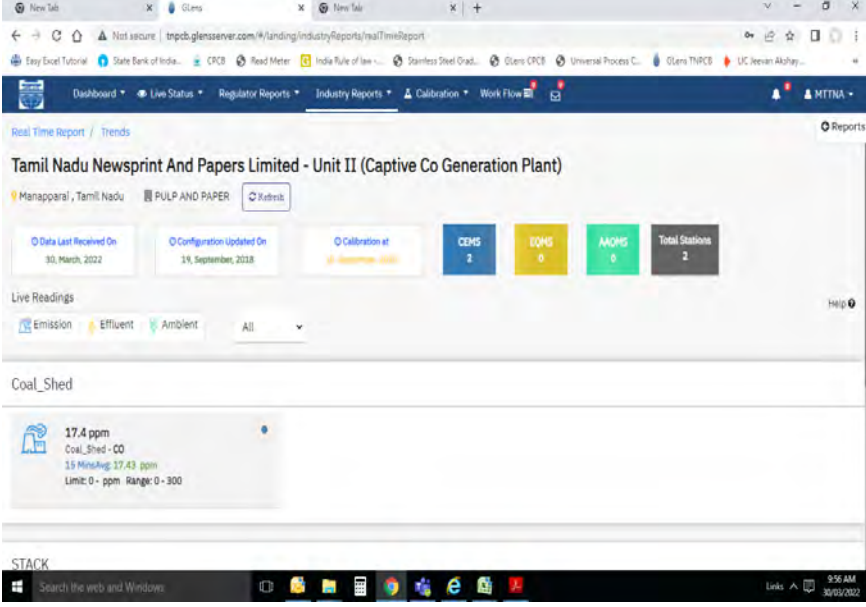
S.No	Additional Condition	Compliance Details
		<p>prevent exposure of fly ash to atmosphere.</p> <p>c. Fly ash transportation to cement plants being done only through closed bunkers.</p> 
12	<p>The unit shall maintain the CO detection mechanism provided at the coal yard and connected with Care Air Centre of TNPCB, Guindy. Chennai and provide proper data at all times.</p>	<p>CO detection system is provided at coal yard and is connected with Care Air Centre of TNPCB, Guindy and provides proper data all times. Screenshot depicting the same is given below.</p> 

Status Of Compliance-Conditions Of Consent Order No 2207243608442 Dated 15.07.2022

Under Section 21 Of Air Act Issued By TNPCB - **Consent To Operate For Expansion (Phase 1)**

M/s Tamil Nadu Newsprint And Papers Limited, Unit-II (Captive Co Gen Plant) for the Period


April'2024 to September'2024

S.No	Additional Condition	Compliance Details
		 <p>The screenshot displays a web-based monitoring interface. At the top, there's a navigation menu with options like 'Dashboard', 'Live Status', 'Regulatory Reports', 'Industry Reports', 'Calibration', and 'Work Flow'. The main heading is 'Tamil Nadu Newsprint And Papers Limited - Unit II (Captive Co Generation Plant)'. Below this, there are several status boxes: 'Data Last Received On: 30, March, 2022', 'Configuration Updated On: 19, September, 2023', and 'Calibration at: 19, September, 2023'. There are also three colored boxes for 'CDMS: 2', 'EQMS: 0', and 'AQMS: 0', and a 'Total Stations: 2' box. A 'Live Readings' section is visible with filters for 'Emission', 'Effluent', and 'Ambient'. The 'Coal_Shed' section shows a reading of '17.4 ppm' for 'Coal_Shed - CO', with a '15 MinsAvg: 17.43 ppm' and 'Limit: 0 - ppm Range: 0 - 300'. The 'STACK' section is partially visible at the bottom.</p>
13	<p>The unit shall ensure the connectivity of the CAAQMS for the parameters PM10, PM2.5, NOx, SO2 and CO with CAC of TNPCB, Guindy, Chennai and provide proper data at all times.</p>	<p>The CAAQMS installed to monitor the parameters, viz., PM10, PM2.5, NOx, SO₂, and CO has been connected with CAC of TNPCB, Guindy, Chennai and the same is being operated continuously. The real time data being collected from the system is being electronically transmitted to CAC of TNPCB at regular intervals. Real time data for the month of Apr'24 to Sep'24 is submitted along with compliance report.</p>
14	<p>The unit shall ensure the connectivity of the online continuous stack monitoring system for monitoring the parameters CO, PM, NOx, SO2 provided at the Boiler stack with CAC of TNPCB. Guindy. Chennai and provide proper data at all times.</p>	<p>The Online continuous stack monitoring system for the parameters CO, PM, NOx, SO₂ in the Boiler stack are connected with CAC, TNPCB, Chennai and CPCB server and real time data are being electronically transmitted to relevant servers. Real time data for the month of Apr'24 to Sep'24 is submitted along with compliance report.</p>
15	<p>The unit shall always comply with the EMP as reported in the EIA study report.</p>	<p>Compliance to the EMP as reported in the EIA study report is submitted along with compliance report.</p>

Status Of Compliance-Conditions Of Consent Order No 2207243608442 Dated 15.07.2022

Under Section 21 Of **Air Act** Issued By TNPCB - **Consent To Operate For Expansion** (Phase 1)

M/s Tamil Nadu Newsprint And Papers Limited, Unit-II (**Captive Co Gen Plant**) for the Period
April'2024 to September'2024

S.No	Additional Condition	Compliance Details
16	The unit shall transport the coal from Tuticorin port to the project site through covered trucks and ensure to take appropriate measures to control the emission during loading, unloading and transport.	Coal is being transferred only through closed trucks and all the measures have been taken to control the emissions during loading, unloading and transport. 
17	The unit shall comply with the risk mitigation measures as suggested in the risk assessment study report.	TNPL complies with the risk mitigation measures as suggested in the risk assessment study report.
18	The unit shall continue to develop and maintain the green belt with indigenous native tree species in accordance with CPCB guidelines within the premises and furnish exact green belt area ear marked / developed in the unit premises and furnish photographs along with latitude and longitude co-ordinates.	TNPL has planted 7.87 lakhs tree saplings in 643.71 Acres Acres earmarked for green belt development as per the details submitted as submitted along with compliance report.
19	The unit shall be liable to pay the consent fee and shall remit the difference in amount in case of any revision of consent fee by the Government.	TNPL abides to the given condition.

Status Of Compliance-Conditions Of Consent Order No 2207243608442 Dated 15.07.2022

Under Section 21 Of **Water Act** Issued By TNPCB - **Consent To Operate For Expansion (Phase 1)**

M/s Tamil Nadu Newsprint And Papers Limited, Unit-II (**Captive Co Gen Plant**) for the period

April'2024 to September'2024

S.No	Special Conditions	Compliance Details
1	The unit shall comply with the conditions stipulated in the environmental clearance obtained from the MoEF&CC, New Delhi vide F.No.J- 11011/172/2017-IA-II(I) dated 04.04.2019.	<p>The conditions stipulated in the Environmental Clearance No. F.No.J-11011/172/2017-IA-II(I) dated 04.04.2019. are being complied. Further, the compliance report on this regard is being submitted once in six months to relevant statutory authorities, viz., MoEF&CC, SEIAA, CPCB and TNPCB by applicable mode of communication viz., by email, uploading in the Parivesh web portal, submission of hard copies.</p> <p>Latest EC Compliance Report for the period 01st Oct 2023 to 31st March 2024 is submitted on 28.05.2024. In addition, a copy of the EC along with latest compliance report of the same are being uploaded and maintained in TNPL web site. (www.tnpl.com).</p>
2	The unit shall not exceed the consented production capacity and the generation of sewage and trade effluent.	<p>TNPL abides to the consented Production Capacity and generation of sewage and trade effluent quantity</p> <ol style="list-style-type: none">1. Steam - 180 TPH2. Power Generation - 50 MW3. Trade Effluent - 640 KLD4. Sewage - 8 KLD
3	The unit shall operate and maintain all the components of STP for the treatment of sewage efficiently and continuously and the treated sewage shall be utilized on industry's own land for gardening after satisfying the standards prescribed by the Board.	<p>The components of STP are being operated and maintained continuously to treat the sewage and the entire treated sewage meeting the norms prescribed by TNPCB is utilized for gardening within the plant premises. Latest ROA of treated sewage carried out through independent labs possessing valid accreditation is</p>

Status Of Compliance-Conditions Of Consent Order No 2207243608442 Dated 15.07.2022

Under Section 21 Of **Water Act** Issued By TNPCB - **Consent To Operate For Expansion** (Phase 1)

M/s Tamil Nadu Newsprint And Papers Limited, Unit-II (**Captive Co Gen Plant**) for the period

April'2024 to September'2024

		submitted along with compliance report.
4	The unit shall ensure that the entire quantity of trade effluent is recycled in the process / used for dust suppression after satisfying the disposal standards prescribed by the board.	TNPL ensures that the entire quantity of trade effluent generated from Captive Power Plant satisfying the disposal standards prescribed the board is recycled in the process / used for dust suppression.
5	The unit shall regularly analyze the treated sewage and treated trade effluent and furnish the ROA of the same to the board.	Treated Sewage and Treated trade effluent are being tested monthly through independent labs possessing valid accreditation. Latest ROA of treated sewage & treated effluent for the month of Sep'24 is submitted along with compliance report respectively.
6	The unit shall operate and maintain the EMFM with computer recorder arrangements in the inlet and the outlet of STP.	EMFM arrangements made at inlet and the outlet of STP.
7	The Unit shall maintain the EMFM with computer recorder arrangements provided for the generation, treatment and disposal of the trade effluent from each source and maintain the data at all times.	EMFM with computer recorder arrangements provided for the Generation, treatment and disposal of the effluent from Captive Power Plant.
8	The unit shall provide flow meters at the disposal point of trade effluent for recycling and web camera with night vision capability to monitor recycling of trade effluent and shall connect the same.	Flow meters are provided and the entire effluent generated from Captive Power Plant is recycled in the process itself. Hence not able to provide camera facility.
9	The unit shall comply with the conditions stipulated in the Hazardous Waste Authorization	➤ Hazardous Waste Authorization 24HFC45404642 dated 09.02.2024 valid till 31.03.2028. Further, the

Status Of Compliance-Conditions Of Consent Order No 2207243608442 Dated 15.07.2022

Under Section 21 Of **Water Act** Issued By TNPCCB - **Consent To Operate For Expansion (Phase 1)**

M/s Tamil Nadu Newsprint And Papers Limited, Unit-II (**Captive Co Gen Plant**) for the period

April'2024 to September'2024

	obtained under Hazardous and Other Waste (M&TM) Rules, 2016 and the hazardous wastes generated shall be properly handled and disposed as per the said Rules.	following activities are also being undertaken in compliance to the conditions stipulated in the HOWR'2016. <ul style="list-style-type: none">➤ Inventory of Hazardous wastes are being maintained in Form 3.➤ Annual returns of Hazardous waste are being submitted in Form 4.➤ Form 8 (labelling) and Form 9 (TREM card) are being followed during disposal of Hazardous wastes.➤ Manifest system (Form 10) is being maintained during disposal of Hazardous wastes.
10	The unit shall collect and dispose the non-hazardous solid wastes then and there without accumulating inside the premises.	Non-Hazardous solid wastes are being collected then and there and disposed off regularly.
11	The Unit shall maintain log book with proper entries for receipt of raw materials, chemicals used for process, quantity of water usage, quantity of effluent from all sources separately, solid waste generation / storage / disposal and quantity of products manufactured.	Log Book is being maintained for receipt of raw materials, chemicals used for process, quantity of water usage, quantity of effluent from all sources separately.
12	The Unit shall maintain good housekeeping both within the factory and in the premises.	Good housekeeping both within the factory and in the premises is being Maintained.
13	The Unit shall provide water meters at the inlet of the water supply connection for each of the purposes separately for assessing the quantity of water used and ensuring that such	Water meters provided the inlet of the water supply connection for each of the purposes separately for assessing the quantity of water.

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	meters are easily accessible for inspection and maintenance and for other purposes of the Act.	
14	The Unit shall not use 'use and throwaway plastics' such as plastic sheets used for food wrapping, spreading on dining table etc., plastic plates, plastic coated tea cups, plastic tumbler, water pouches and packets, plastic straw, plastic carry bag and plastic flags irrespective of thickness, within the Unit premises. Instead it shall encourage use of Eco friendly alternative such as banana leaf, areca nut palm plate, stainless steel, glass, porcelain plates / cups, cloth bag, Jute bag etc.	Single use throwaway plastics are not used in TNPL.
15	The unit shall be liable to pay the consent fee and shall remit the difference in amount in case of any revision of consent fee by the Government.	TNPL agrees to this condition.
16	The unit shall comply with the Notifications issued by CPCB from time to time for water consumption, effluent standards and Coal / Ash handling.	TNPL agrees to the condition.