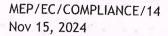


Tamil Nadu Newsprint and Papers Limited

(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



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-OA)

- 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, Ambatuur 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 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





	2 01 Dec(01	ompliance Report 024 Apr - 30 Sep) ledgement	
Proposal Name		Mill Expansion Plan of Un Machine, Pulp Mill, Chem Augmentation of Co-Gene TNPL, Unit2, Mondipatti,	nicalRecovery Island, and eration Plant and utilities at
Name of Entity / Corporat	e Office	TAMIL NADU NEWSPR	INT AND PAPERS LIMITED
Village(s)		N/A	
District		TIRUCHIRAPPALLI	
Proposal No.	IA/TN/IND/88943/2013	Category	Industrial Projects - 1
Plot / Survey / Khasra	N/A	Sub-District	N/A
No.	1 1/2 1	Entity's PAN	****2935J
State	TAMIL NADU	Entity name as per	Tamil Nadu Newsprint
MoEF File No.	SW/88939/2018	PAN	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 odour.	control of
Necessar mechanis		fnon - condensable gas (NCG) and incineration ar emissions. The details of the mechanism involved in xure.	Date: 16/11/2024
2	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall adhere to Zero Liquid D	vischarge.
Effluent generate tree sapli located in	d from the unit. The entire treated e ings in 643.67 Acres earmarked for	nd 15 MLD capacity was installed to treat the effluents ffluent is fully utilized to irrigate about 7.88 Lakhs of green belt development including housing colony I Chettichatram through drip irrigation. Green Belt Annexure.	Date: 16/11/2024
neral C	onditions		
Sr.No.	Condition Type	Condition Details	
		Emergency preparedness plan based on the Hazard i	
1	Human Health Environment	and Risk Assessment (HIRA) and Disaster Manageme implemented	

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

2	AIR QUALITY MONITORING AND PRESERVATION	Wind shelter fence and chemical spraying shall be proraw material stock piles.	ovided on the
	Submission: Complied shelter fence provided near the raw n	naterial stock piles. Photograph attached as Annexure.	Date: 16/11/2024
3	Statutory compliance	The project proponent shall obtain Consent to Establi under the provisions of Air (Prevention & Control of P 1981 and the Water (Prevention & Control of Pollution from the concerned State Pollution Control Board/ Con	ollution) Act Act, I 974
TNPL and Ca Numb Conse 15.07. of Exp Sectio Captiv	aptive Power Plant. 1a. Consent to O er 2207243671275 Dated 15.07.2022 nt to Operate (Phase - 1 of Expansion 2022 under Section 25 of Water act, pansion) for Captive Power Plant - O n 21 of Air act, Valid till 31.03.2027) for Mill Expansion in a phased manner for Board Plant perate (Phase - 1 of Expansion) for Board Plant - Order 2 under Section 21 of Air act, Valid till 31.03.2027. 1b. n) for Board Plant - Order Number 2207143671275 Dated Valid till 31.03.2027. 2a. Consent to Operate (Phase - 1 rder Number 2207243608442 Dated 15.07.2022 under . 2b. Consent to Operate (Phase - 1 of Expansion) for 143608442 Dated 15.07.2022 under Section 25 of Water opies are attached as Annexure.	Date: 16/11/2024
4	Statutory compliance	The project proponent shall obtain the necessary perm the Central Ground Water Authority, in case of drawl of / from the competent authority concerned in case of dra water required for the project.	of ground wat
TNPL a perio		Collector, Trichy for drawl of water from River Kavery for 5/2020 dated 26.09.2020 which has validity upto 1 as Annexure.	Date: 16/11/2024
5	Statutory compliance	The project proponent shall obtain authorization under Hazardous and other Waste Management Rules, 2016 a from time to time.	
Hazar	Submission: Complied	Hazardous and other Waste Management Rules, 2016 a from time to time.	
PPs Hazar	Submission: Complied dous Waste Authorization - Order Nu	Hazardous and other Waste Management Rules, 2016 a from time to time.	Date: Date: 16/11/2024 mission mission with tion) Rules as amended er 20 I 5 and connecte calibrated n labs

			• • • •
7	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall monitor fugitive emission premises at least once in every quarter through labs rec Environment (Protection) Act, 1986.	
Fugitiv indepe		out on monthly basis at seven Locations through tion. ROA for the period April 2024 to September 2024	Date: 16/11/2024
8	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion relevant to the main pollutants released (e.g. PM10 and reference to PM emission, and SO2 and NOx in referen NOx emissions) within and outside the plant area at lea locations (one within and three outside the plant area at 120° each), covering upwind and downwind directions	parameters l PM2.5 in nee to SO2 ar ast at four t an angle of
Out of install	ed and connected to TNPCB and CPC up after MEP Phase - 2. Supporting d	Quality monitoring systems (CAAQMS) has been CB servers. Remaining two CAAQMS installation will be locuments of CAAQMS installed is attached as	Date: 16/11/2024
9	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall submit monthly summary continuous stack emission and air quality monitoring a manual stack monitoring and manual monitoring of air /fugitive emissions to Regional Office of MoEF&CC, 2 CPCB and Regional Office of SPCB along with six-mo- monitoring report.	nd results of quality Zonal office of
Month Lime I out thr	Kiln, Recovery Boiler and also the re	quality monitoring and stack emissions of Power Boiler, sults of manual air and stack emission monitoring carried lid accreditation for the period April 2024 to September	Date: 16/11/2024
10	AIR QUALITY MONITORING AND PRESERVATION	Appropriate Air Pollution Control (APC) system sha for all the dust generating points including fugitive dus vulnerable sources, so as to comply prescribed stack er fugitive emission standards.	t from all
Appro emissi height road d	ons. ESPs were installed at power bo , Lime Kiln stack of 54.8m height. W	ystem is provided to control fugitive emission and stack iler stack of 100m height, Recovery Boiler stack of 90m /ater sprinkling arrangements at coal storage yard, mobile n for coal conveyors and dust extraction system at transfer is Annexure.	Date: 16/11/2024
11	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall install high volume, low NCG collection & destruction system to mitigate all m gases emitted.	
All the	Submission: Complied e requisite systems to control NCG ar ion. Detailed are attached as Annexu	nd malodorous gases installed and being kept in re.	Date: 16/11/2024
12	AIR QUALITY MONITORING AND	Emissions shall be controlled from chemical recovery through primary and secondary venturi scrubbers.	y section
		ision, Ministry of Environment, Forest and Climate Change,	Page

	Submission. Complied		Date:
All the	Submission: Complied emissions from chemical recovery ration system. Details are attached	y section are controlled though NCG collection and as Annexure	16/11/2024
13	AIR QUALITY MONITORING AND PRESERVATION	Pollution control system in the pulp and paper plant provided as per the CREP Guidelines of CPCB.	shall be
CREP	Submission: Complied guidelines issued by CPCB for lar ined. Details are attached as Anne	ge pulp and Paper Mills are being implemented and xure.	Date: 16/11/2024
14	AIR QUALITY MONITORING AND PRESERVATION	Sufficient number of mobile or stationery vacuum cl provided to clean plant roads, shop floors, roofs, regul	
PPs	Submission: Complied		Date:
Road s		eaners are engaged to clean the roads and shop floors nnexure.	16/11/2024
15	AIR QUALITY MONITORING AND PRESERVATION	In case of treatment process disturbances/failure of p equipment adopted by the unit, the respective unit sha and shall not be restarted until the control measures ar achieve the desired efficiency.	ll be shut dow
	Submission: Agreed to Comply agreed to comply with this conditi	on.	Date: 16/11/2024
16	AIR QUALITY MONITORING AND PRESERVATION	The company shall install Oxygen Delignification (C shall maintain AOX below 1 kg/tonne of paper produc	
DDg	Submission: Complied		Date:
Two st	age Oxygen Delignification (ODL) has been installed in Hardwood Pulpmill and AOX has been production. Details are attached as Annexure.	16/11/2024
17	AIR QUALITY MONITORING AND PRESERVATION	Elemental Chlorine Free (ECF) technology shall be kiln shall be installed to manage lime sludge	used and lime
DDs (Submission: Complied		Date:
Elemen	ntal Chlorine Free (ECF) bleaching	g technology is adopted in Hard Wood Pulpmill. Lime Kiln ne sludge. Details are attached as Annexure.	16/11/2024
18	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall install 24x7 continuous of monitoring with respect to standards prescribed in Env (Protection) Rules 1986 vide G.S.R. No. 546 (E) dated 2008 as amended from time to time and S.O. 3305 (E) 7thDecember 2015 (Thermal Power Plants) as amended time and connected to SPCB and CPCB online servers these system from time to time according to equipment specification through labs recognized under Environm Act, 1986 or NABL accredited laboratories.	vironment l 30th August dated ed from time to and calibrate t supplier
Contin		CEFMS) is installed for 24x7 monitoring of effluent which The system is being calibrated periodically. Supporting	Date: 21/11/2024
	Address: IA I	,	Page

19	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall monitor regularly ground at least twice a year (pre and post monsoon) at sufficie piezometers/sampling wells in the plant and adjacent a labs recognised under Environment (Protection) Act, 1 NABL accredited laboratories.	ent numbers of reas through
Groun three 1	nonths and Piezometer samples in se ossessing valid accreditation. ROA f	lysing well water samples in twelve locations once in even locations once in six months through independent for the period April 2024 to September 2024 is attached as	Date: 21/11/2024
20	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall submit monthly summar continuous effluent monitoring and results of manual e and manual monitoring of ground water quality to Reg MoEF&CC, Zonal office of CPCB and Regional Offic along with six-monthly monitoring report.	effluent testing
Month monite		luent monitoring and results of manual effluent tt labs possessing valid accreditation for the period April nexure.	Date: 21/11/2024
21	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall provide the ETP to meet prescribed in vide G.S.R. No. 546 (E) dated 30th Augu amended from time to time and S.O. 3305 (E) dated 7t 2015 (Thermal Power Plants) as amended from time to	ıst 2008 as hDecember
Efflue sludge treatm	e process with secondary clarifier, DA	primary clarifier, MBBR technology, Biological activated AF system and Pressure sand filter were installed towards as sections to meet the standards prescribed by the Board.	Date: 21/11/2024
Efflue sludge treatm	nt Treatment Plant of 15 MLD with e process with secondary clarifier, DA ent of effluent generated from variou	AF system and Pressure sand filter were installed towards	21/11/2024
Efflue sludge treatm Detail 22 PPs Sewag Pulpm Sewag of Sev	ent Treatment Plant of 15 MLD with je process with secondary clarifier, DA tent of effluent generated from various are attached as Annexure. WATER QUALITY MONITORING AND PRESERVATION Submission: Complied ge Treatment Plants (STPs) were proviill and FH area (10 KLD), Housing of ge water samples are analysed throug vage Treatment Plant and ROA carried	AF system and Pressure sand filter were installed towards is sections to meet the standards prescribed by the Board. Sewage Treatment Plant shall be provided for treatm	21/11/2024 eent of domest Date:
Efflue sludge treatm Detail 22 PPs Sewag Pulpm Sewag of Sev	ent Treatment Plant of 15 MLD with je process with secondary clarifier, DA tent of effluent generated from various are attached as Annexure. WATER QUALITY MONITORING AND PRESERVATION Submission: Complied ge Treatment Plants (STPs) were proviill and FH area (10 KLD), Housing of ge water samples are analysed throug vage Treatment Plant and ROA carried	AF system and Pressure sand filter were installed towards as sections to meet the standards prescribed by the Board. Sewage Treatment Plant shall be provided for treatm wastewater to meet the prescribed standards. vided at board units (70 KLD), Co- Gen Plant (10 KLD), Colony (60 KLD) for treatment of domestic wastewater. h independent labs possessing valid accreditation. Details ed out through independent labs possessing valid	21/11/2024 eent of domest Date: 21/11/2024 for each stock
Efflue sludge treatm Detail 22 PPs Sewag Pulpm Sewag of Sev accred 23 PPs	ent Treatment Plant of 15 MLD with je process with secondary clarifier, DA tent of effluent generated from various are attached as Annexure. WATER QUALITY MONITORING AND PRESERVATION Submission: Complied ge water samples are analysed throug vage Treatment Plant and ROA carried WATER QUALITY MONITORING AND PRESERVATION Submission: Complied Set Treatment Plants (STPs) were provide througe the period April 2024 to Set	AF system and Pressure sand filter were installed towards as sections to meet the standards prescribed by the Board. Sewage Treatment Plant shall be provided for treatm wastewater to meet the prescribed standards. vided at board units (70 KLD), Co- Gen Plant (10 KLD), Colony (60 KLD) for treatment of domestic wastewater. h independent labs possessing valid accreditation. Details ed out through independent labs possessing valid September 2024 is attached as Annexure. Garland drains and collection pits shall be provided f pile to arrest the runoff in the event of heavy rains and	21/11/2024 eent of domest Date: 21/11/2024 for each stock

Tempo	Submission: Complied rary Tyre washing facilities are provide d as Annexure.	ed at the entrance of the plant gate. Photograph	Date: 21/11/2024
25	WATER QUALITY MONITORING AND PRESERVATION	Ensure that there is no black liquor spillage in the an no use of elemental chlorine for bleaching in mill, ins preparation plant.	
TNPL tank ar oxide i	d from there it is taken to digester blow	or is collected at one place and pumped back to reject tank so there is no spillage in Pulpmill. Chlorine di no use of Elemental chlorine for bleaching. Details	Date: 22/11/2024
26	WATER QUALITY MONITORING AND PRESERVATION	Ensure that no spillage of foam in chemical recover discharge of foul condensate generated from MEE in recovery process directly to ETP.	
TNPL MEE i CNCG	s concentrated in stripping column and . CNCG is fired in lime kiln. Methanol	nical Recovery Plant. Foul condensate generated from pumped to methanol column to separate methanol and sent to storage tank and then pumped for firing in lime ETP. Details are attached as Annexure.	Date: 22/11/2024
27	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall practice rainwater harve maximum possible extent.	esting to
	Submission: Complied /ater Harvesting facilities available in t	he plant. Details are attached as Annexure.	Date: 22/11/2024
28	WATER QUALITY MONITORING AND PRESERVATION	Water meters shall be provided at the inlet to all unit the steel plants.	t processes in
Water	Submission: Complied meters are provided at the inlet of Pape ery Island and all unit processes. Photog	r Board Plant, Captive Power Plant, Pulpmill, graph is attached as Annexure.	Date: 22/11/2024
29	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall make efforts to minimis consumption in the steel plant complex by segregation practicing cascade use and by recycling treated water	n of used wate
	Submission: Complied adopts new advanced technology with r	maximum recycling of treated effluent.	Date: 22/11/2024
30	Noise Monitoring & Prevention	Noise level survey shall be carried as per the preser and report in this regard shall be submitted to Region Ministry as a part of six-monthly compliance report.	
Noise		pendent labs possessing valid accreditation. ROA of o September 2024 is attached as Annexure.	Date: 22/11/2024
31	Noise Monitoring & Prevention	The ambient noise levels should conform to the star prescribed under E(P)A Rules, 1986 viz. 75 dB(A) du and 70 dB(A) during night time.	

Noise l	Submission: Complied evels are carried out through NABL ac eters are within prescribed limits.	ccredited laboratory at eight locations. Monitored	Date: 22/11/2024
32	ENERGY PRESERVATION MEASURES	Provide solar power generation on roof tops of bui light system for all common areas, street lights, park project area and maintain the same regularly;	
Installe Roof to		a and 5 nearby villages. Further, 1.1 MW DC capacity ress. Purchase Order copy for supply, Installation and ttached as Annexure	Date: 22/11/2024
33	ENERGY PRESERVATION MEASURES	Provide LED lights in their offices and residential	areas.
Only L	Submission: Complied ED lights are placed in the office build raphs are attached as Annexure.	lings and residential areas of TNPL Unit - II.	Date: 22/11/2024
34	WASTE MANAGEMENT	Deinking sludge and fine sludge from ETP shall be through TSDF.	e disposed
	Submission: Complied s no deinking process in TNPL Unit - I	П.	Date: 22/11/2024
35	WASTE MANAGEMENT	Black Liquor shall be separately processed for reco and chemical in a Chemical Recovery Process.	overy of energy
A sepa		Recovery Boiler is installed and in operation to n black liquor. Details are attached as Annexure.	Date: 22/11/2024
36	WASTE MANAGEMENT	Sufficient number of colour coded waste collection constructed at shop floors in each shop to systematic and store waste materials generated at the shop floor Process waste) in designated coloured bins for value promoting reuse of such wastes and for good housek	ally segregate s (other than addition by
5 Nos.	Submission: Complied of colour coded bins are placed at various. Is. Details are attached as Annexure.	ous places to systematically segregate and store waste	Date: 22/11/2024
		100% utilization of fly ash shall be ensured. All th	e fly ash shall b
37	WASTE MANAGEMENT	provided to cement and brick manufacturers for furth and Memorandum of Understanding in this regard sh to the Ministry's Regional Office. (in case of CPP)	ner utilization
PPs S The en	Submission: Complied	and Memorandum of Understanding in this regard sl	ner utilization
PPs S The en	Submission: Complied tire fly ash is disposed to TNPL Cemer	and Memorandum of Understanding in this regard sl to the Ministry's Regional Office. (in case of CPP)	Date: 22/11/2024

	lous and Other waste (Management and	d Transboundary Movement) Rules, 2016.	22/11/2024
39	GREENBELT	Green belt shall be developed in an area equal to 33% area with a native tree species in accordance with CPC The greenbelt shall inter alia cover the entire periphery	B guidelines.
TNPL	Submission: Complied has planted 7.88 Lakhs of tree saplings the details submitted as Annexure.	in 643.67 acres earmarked for green belt development	Date: 22/11/2024
40	GREENBELT	The project proponent shall prepare GHG emissions the plant and shall submit the programme for reduction including carbon sequestration including plantation.	
Green	Submission: Complied House Gas (GHG) / scientific study for M/s. Howest Global, Coimbatore and t	carbon sequestration including plantation was carried he report is attached as Annexure.	Date: 22/11/2024
41	Human Health Environment	The project proponent shall carry out heat stress anal workmen who work in high temperature work zone and Personal Protection Equipment (PPE) as per the norms Act.	d provide
a) The Boilers	s are fully insulated, and work zone tem heat stress impact is not envisaged. c) A	operations that are exposed to very high temperature. b) aperatures are in line with the ambient temperatures Adequate hall ventilation (Fresh air fan) has been	Date: 22/11/2024
across as per t	the facility as per the Factories act. e) A	Cool drinking water dispensing stations are provided Appropriate PPEs has been provided for the employees Analysis is carried out at board machine. Heat Stress	22/11/2024
across as per t Analys	the facility as per the Factories act. e) A the Factory act. However, Heat Stress A	Appropriate PPEs has been provided for the employees	be done on a
across as per t Analys 42 PPs S Occupa Occupa hospita	the facility as per the Factories act. e) A the Factory act. However, Heat Stress A sis report is attached as Annexure. Human Health Environment Submission: Complied ational Health centre (OHC) is establish ational health surveillance of the worke sis for carrying out periodic health chec	Appropriate PPEs has been provided for the employees Analysis is carried out at board machine. Heat Stress Occupational health surveillance of the workers shall	be done on a
across as per t Analys 42 PPs S Occupa hospita being r	the facility as per the Factories act. e) A the Factory act. However, Heat Stress A sis report is attached as Annexure. Human Health Environment Submission: Complied ational Health centre (OHC) is establish ational health surveillance of the worke sis for carrying out periodic health chec	Appropriate PPEs has been provided for the employees Analysis is carried out at board machine. Heat Stress Occupational health surveillance of the workers shall regular basis and records maintained as per the Factori hed within the factory site and is in operation for ers on a regular basis. TNPL also tied up with reputed eks for the employees on regular basis and records are	l be done on a es Act. Date: 22/11/2024 f safety for and ion for
across as per t Analys 42 PPs \$ Occupa Occupa hospita being r 43 PPs \$	the facility as per the Factories act. e) A the Factory act. However, Heat Stress A sis report is attached as Annexure. Human Health Environment Submission: Complied ational Health centre (OHC) is establish ational health surveillance of the worke sols for carrying out periodic health chec naintained. OHC details and proof of h Human Health Environment Human Health Environment	Appropriate PPEs has been provided for the employees Analysis is carried out at board machine. Heat Stress Occupational health surveillance of the workers shall regular basis and records maintained as per the Factori hed within the factory site and is in operation for ers on a regular basis. TNPL also tied up with reputed eks for the employees on regular basis and records are ealth checkups are attached as Annexure. The proponent shall follow International Standards o CIO2 generation and storage system, and ozone plant, certification on regular basis may be submitted. Provis adequate safety for personnel in case of any accidental	l be done on a es Act. Date: 22/11/2024 f safety for and ion for
across as per t Analys 42 PPs \$ Occupa Occupa hospita being r 43 PPs \$	the facility as per the Factories act. e) A the Factory act. However, Heat Stress A sis report is attached as Annexure. Human Health Environment Submission: Complied ational Health centre (OHC) is establish ational health surveillance of the worke sols for carrying out periodic health chec naintained. OHC details and proof of h Human Health Environment Human Health Environment	Appropriate PPEs has been provided for the employees Analysis is carried out at board machine. Heat Stress Occupational health surveillance of the workers shall regular basis and records maintained as per the Factori hed within the factory site and is in operation for ers on a regular basis. TNPL also tied up with reputed ealth checkups are attached as Annexure. The proponent shall follow International Standards o CIO2 generation and storage system, and ozone plant, certification on regular basis may be submitted. Provis adequate safety for personnel in case of any accidental be in place	be done on a es Act. Date: 22/11/2024 f safety for and ion for leakage shou Date: 22/11/2024 ons contained ted 1st May

45	Corporate Environmental Responsibility	The company shall have a well laid down environmed duly approve by the Board of Directors. The environme should prescribe for standard operating procedures to be checks and balances and to bring into focus any infringements/deviation/violation of the environmentat /wildlife norms/ conditions. The company shall have of of reporting infringements / deviation / violation of the environmental/ forest I wildlife norms I conditions and shareholders I stake holders. The copy of the board res regard shall be submitted to the MoEF&CC as a part of report.	nental policy have proper al / forest defined system e d / or solution in this
A well Systen Annex	n which is duly approved by Managir	been developed as part of Integrated Management ag Director is in place. Copy of policy is Attached as e environmental norms or conditions is discussed in the	Date: 22/11/2024
46	Corporate Environmental Responsibility	A separate Environmental Cell both at the project an head quarter level, with qualified personnel shall be se control of senior Executive, who will directly to the he organization.	et up under the
		der the control of senior executive. Details are attached	Date: 22/11/2024
	nexure.		
as Ann	Corporate Environmental Responsibility	Action plan for implementing EMP and environmen along with responsibility matrix of the company shall shall be duly approved by competent authority. The ye earmarked for environmental protection measures shal separate account and not to be diverted for any other p wise progress of implementation of action plan shall b the Ministry/Regional Office along with the Six Mont Report.	be prepared an ear wise funds Il be kept in purpose. Year be reported to
47 PPs S The ac matrix environ	Corporate Environmental Responsibility Submission: Complied tion plan for implementing EMP and of the company were approved by co	along with responsibility matrix of the company shall shall be duly approved by competent authority. The ye earmarked for environmental protection measures shall separate account and not to be diverted for any other p wise progress of implementation of action plan shall b the Ministry/Regional Office along with the Six Mont Report.	be prepared an ear wise funds Il be kept in purpose. Year be reported to
47 PPs The ac matrix environ purpos	Corporate Environmental Responsibility Submission: Complied etion plan for implementing EMP and of the company were approved by co nmental protection measures were ke	along with responsibility matrix of the company shall shall be duly approved by competent authority. The ye earmarked for environmental protection measures shall separate account and not to be diverted for any other p wise progress of implementation of action plan shall b the Ministry/Regional Office along with the Six Mont Report.	be prepared an ear wise funds Il be kept in purpose. Year be reported to hly Compliand Date: 22/11/2024 y. Every three
47 PPs 5 The ac matrix environ purpos 48 PPs 5 TNPL Auditin study a	Corporate Environmental Responsibility Submission: Complied stion plan for implementing EMP and of the company were approved by co- nmental protection measures were ke e. Detailed EMP of EIA on EIA stud Corporate Environmental Responsibility Submission: Complied complies and certified with ISO 1400 ng of Environmental aspects and imp	along with responsibility matrix of the company shall shall be duly approved by competent authority. The ye earmarked for environmental protection measures shal separate account and not to be diverted for any other p wise progress of implementation of action plan shall b the Ministry/Regional Office along with the Six Mont Report. environmental conditions along with responsibility ompetent authority. The year wise funds earmarked for pt in separate account and not diverted for any other y report is attached as Annexure. Self-environmental audit shall be conducted annually	be prepared an ear wise funds Il be kept in purpose. Year be reported to hly Compliand Date: 22/11/2024 y. Every three out. Date:
47 PPs 5 The ac matrix environ purpos 48 PPs 5 TNPL Auditin study a	Corporate Environmental Responsibility Submission: Complied etion plan for implementing EMP and of the company were approved by co- nmental protection measures were ke e. Detailed EMP of EIA on EIA stud Corporate Environmental Responsibility Submission: Complied complies and certified with ISO 1400 ng of Environmental aspects and imp and accordingly Standard Operating p	along with responsibility matrix of the company shall shall be duly approved by competent authority. The yee earmarked for environmental protection measures shall separate account and not to be diverted for any other p wise progress of implementation of action plan shall b the Ministry/Regional Office along with the Six Mont Report. environmental conditions along with responsibility ompetent authority. The year wise funds earmarked for pt in separate account and not diverted for any other y report is attached as Annexure. Self-environmental audit shall be conducted annually years third party environmental audit shall be carried of the conducted annually set. D1:2015 certification Environment Management System. acts of each process activity being done. Significant	be prepared an ear wise funds Il be kept in purpose. Year be reported to hly Compliand Date: 22/11/2024 y. Every three out. Date: 22/11/2024

	ined. Details are attached as Annexu	ure.		
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.		
		rs dated 28.05.2019. A copy of the same is attached as	Date: 22/11/2024	
51	MISCELLANEOUS	The copies of the environmental clearance shall be project proponents to the Heads of local bodies, Panc Municipal Bodies in addition to the relevant offices of Government who in turn has to display the same for a date of receipt.	hayats and of the	
A copy	Submission: Complied of the environmental clearance was wledgement from the respective off	s submitted to the Heads of local bodies. ices is submitted as Annexure.	Date: 22/11/2024	
52	MISCELLANEOUS	The project proponent shall upload the status of constipulated environment clearance conditions, includir monitored data on their website and update the same basis.	ng results of	
Compli being u		nce conditions including results of monitoring data Is /ww.tnpl.com/compliance/ on half-yearly basis.	Date: 22/11/2024	
53	MISCELLANEOUS	The project proponent shall monitor the criteria pol namely; PM10, SO2, NOx (ambient levels as well as or critical sectoral parameters, indicated for the proje the same at a convenient location for disclosure to the on the website of the company.	stack emission cts and display	
			Date: 22/11/2024	
Electro	Submission: Complied nic display board depicting Real tin a, viz., near entrance gate. Photograp	ne emission monitoring data has been installed in public ph attached as Annexure.		
Electro	nic display board depicting Real tin		pproval of the land	
Electro domain 54 PPs S Consen	nic display board depicting Real tim a, viz., near entrance gate. Photograp MISCELLANEOUS Submission: Complied at to Operate (CTO) for Board Plant	The project proponent shall inform the Regional Of the Ministry, the date of financial closure and final ap project by the concerned authorities, commencing the	pproval of the land	

Complia 04.04.2 Plant in under P	019 accorded for TNPL Unit-II by cluding Recovery Boiler, Lime Kil hase -1 of Mill Expansion Plan. Re	arance F.NO.J-11011/172/2017-IA-II (I) dated MOEFCC, ECF Chemical Wood Pulpmill, Recovery In, One TG of capacity 20 MW was implemented emaining Printing and Writing Paper Machine, One ne TG of capacity 30MW will be taken up in due	Date: 22/11/2024		
56	MISCELLANEOUS	The Ministry may revoke or suspend the clearance implementation of any of the above conditions is not			
	ubmission: Agreed to Comply agreed to comply with this condition	n.	Date: 22/11/2024		
57	MISCELLANEOUS	The Ministry reserves the right to stipulate addition found necessary. The Company in a time bound man implement these conditions.			
	ubmission: Agreed to Comply agreed to comply with this condition	n.	Date: 22/11/2024		
58	MISCELLANEOUS	each financial year in Form-V to the concerned State Control Board as prescribed under the Environment	The project proponent shall submit the environmental statement fo 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.		
Enviror	ubmission: Complied mental Statement - Form V for the 024. Form V for the year 2023-24	e year 2023-24 is submitted to relevant authorities on is attached as Annexure.	Date: 22/11/2024		
59	MISCELLANEOUS	The project authorities must strictly adhere to the s by the State Pollution Control Board and the State G			
Adherir	ubmission: Complied ng to the stipulations made by TNP 2 and compliance report is attached	CB. CTO (Expansion) for the part of MEP obtained on d as Annexure.	Date: 22/11/2024		
60	MISCELLANEOUS	The project proponent shall abide by all the commin recommendations made in the EIA/EMP report, com during Public Hearing and also that during their press Expert Appraisal Committee.	mitment made		
TNPL a	ubmission: Complied bides by all the commitments and I EMP report as Annexure.	recommendations made in EIA/EMP report. Attached	Date: 22/11/2024		
61	MISCELLANEOUS	The Regional Office of this Ministry shall monitor the stipulated conditions. The project authorities sho cooperation to the officer (s) of the Regional Office I requisite data / information/monitoring reports.	uld extend full		
	ubmission: Agreed to Comply agreed to comply with this condition	n.	Date: 22/11/2024		
62	MISCELLANEOUS	The above conditions shall be enforced, inter-alia u provisions of the Water (Prevention and Control of P 1974, the Air (Prevention and Control of Pollution)	Pollution) Act,		
	Addroso: IA Di	vision Ministry of Environment Forest and Climate Change	Page		

		(Manager Public Lia and Rules	nent (Protection) Act, 1986, Hazardous and O nent and Transboundary Movement) Rules, 2 ability Insurance Act, 1991 along with their a s and any other orders passed by the Hon'ble High Courts and any other Court of Law rela atter.	2016 and the mendments Supreme Cour
	ubmission: Agreed to Comply greed to comply with this condition	on.		Date: 22/11/2024
63	MISCELLANEOUS	status of t on the we	ject proponent shall submit six-monthly report the compliance of the stipulated environment tobsite of the ministry of Environment, Forest t environment clearance portal.	al conditions
TNPL su condition		24. Screenshot	mpliance of the stipulated environmental depicting the submission of EC compliance ttached as Annexure.	Date: 22/11/2024
64	MISCELLANEOUS	result in r	ling factual data or submission of false/fabric evocation of this environmental clearance an provisions of Environment (Protection) Act,	d attract action
	ubmission: Agreed to Comply greed to comply with this condition	on.		Date: 22/11/2024
65	MISCELLANEOUS	Tribunal,	peal against this EC shall lie with the Nationa if preferred, within a period of 30 days as pro 6 of the National Green Tribunal Act, 2010.	
	Ibmission: Agreed to Comply greed to comply with this condition	on.		Date: 22/11/2024
		Visit R	emarks	
ast Site V	Visit Report Date:		06/05/2024	
dditiona	l Remarks:			
		n the complianc	ted by project proponent. In no way is this do e of the project. This is strictly for the project e purpose.	
	A delega - 1 A D	indoion Minister - P	Environment, Forest and Climate Change,	Page



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 Recausticising 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 Recausticizing area, and fired into the Chemical Recovery Boiler.



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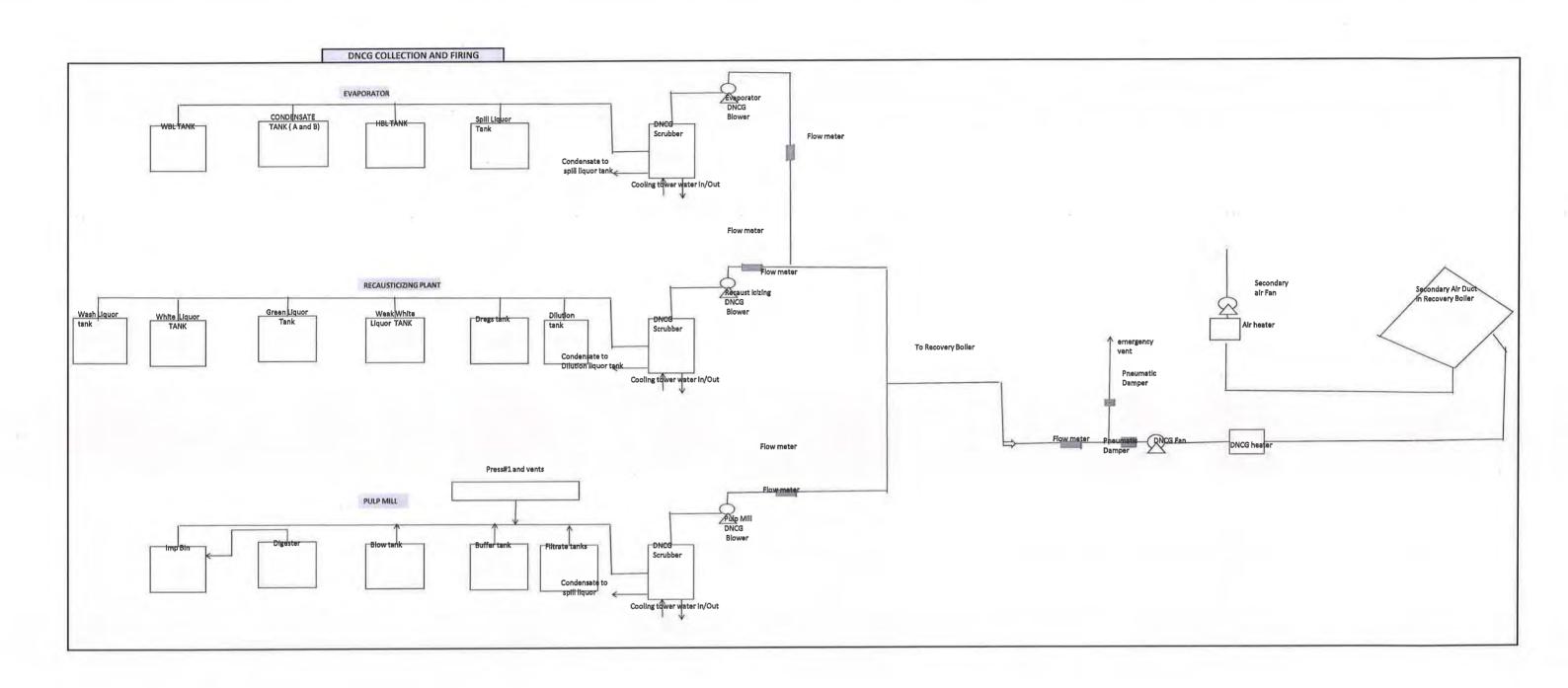
DNCG forms part of the secondary air in the Recovery Boiler. A DNCG fan in the Recovery Boiler receives gases from all the above areas and the gas pressure is raised to ensure entry of the DNCG without any interruption through the Secondary air duct. The DNCG fan speed is controlled by a Variable Frequency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

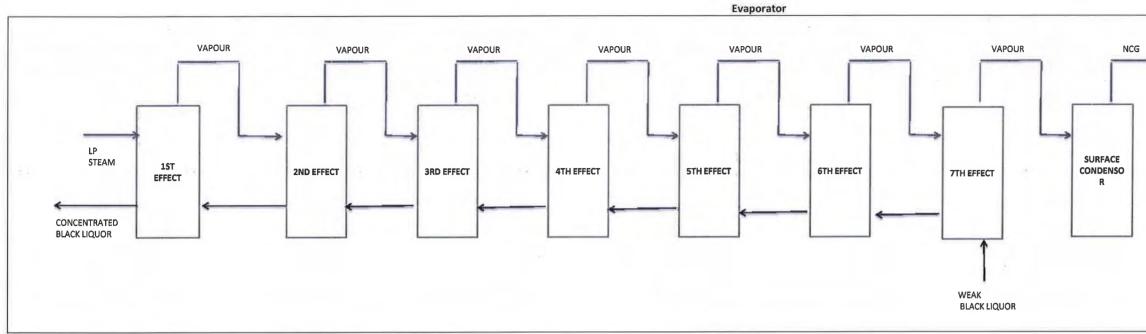
A brief schematic diagram of the above systems is attached.

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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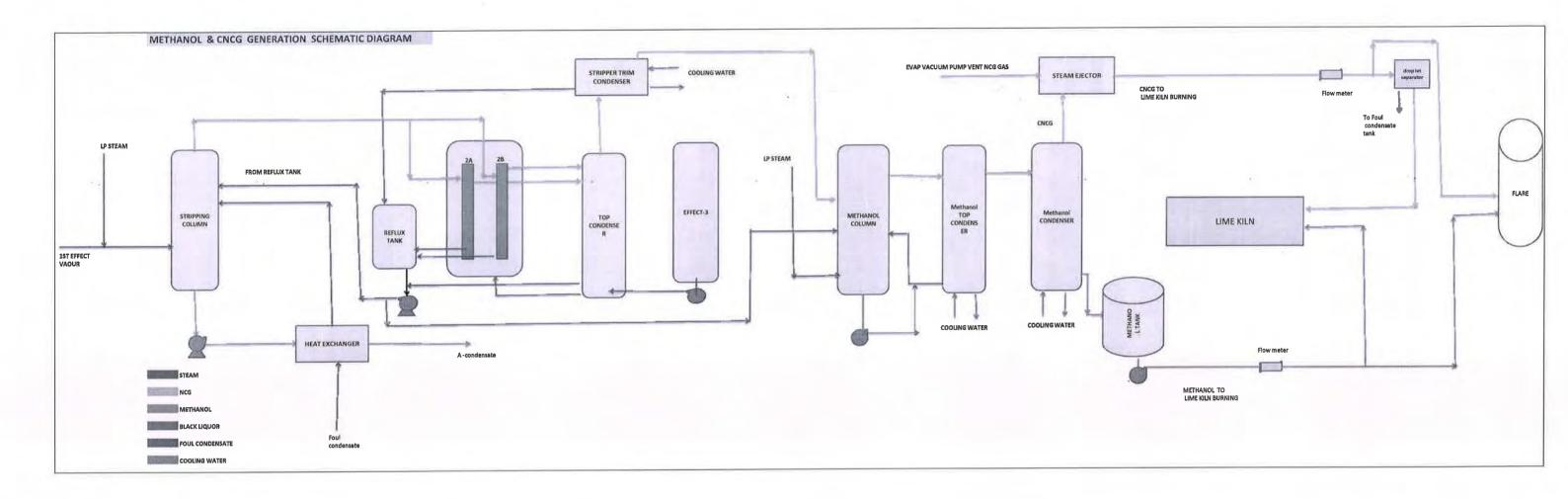


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* MANUAL VALVE 4 NCG TO LIME KILN EJECTOR MANUAL VALVE VACUUM PUMP (1 RUNNING+ 1 STANDBY)

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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:

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	

Power Plant (Mondipatti)

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

SI 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 Chetttichatram & 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:

SI. 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	Azadircta indica (Neem)	47
12	<i>Kigelia pinnata</i> (Siva kundalam)	21
13	Conocarpus erectus (Button wood)	300
14	Peltophorum pterocarpum (Pheltophorum)	396
15	<i>Cassia Fistula</i> (Sarakondrai)	2
16	<i>Deloxix regia</i> (Gulmuhar)	16
	TOTAL	28290

Tree planted details in Captive Power Plant (Mondipatti) as on 30.09.2024

TABLE C:

SL.		No. of Trees
NO	Name of the Tree	
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

Tree planted details in Board Plant (Mondipatti) as on 30.09.2024

TABLE D:

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)	197657
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	<i>Cocos nucifera</i> Coconut (T x D)	1625
20	Cocos nucifera Coconut (WCT)	448
21	Croscentia cujete (calabash tree)	5
22	Eucalyptus tereticornis (Eucalyptus)	55811
23	Gmelina arborea (Kumil)	240
	<i>Psidium guajava</i> (Guava) / <i>Artocarpus</i> <i>heterophyllus</i> (Jack)/ Pithecellobium	
24	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
34	Azadirachta indica (Neem)	11395
35	<i>Terminalia arjuna</i> (Neer marudhu)	5335
36	Cestrum nocturnum (Night queen tree)	5

37	<i>Morinda citrifolia</i> (Noni Tree)	5
38	Peltophorum pterocarpum (Copperpod)	30
39	Punica granatum (Pomegranate)	2000
	Thespesia populnea (Poovarasu) /	
40	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	<i>Santalum album</i> (Sandal)	2271
	Manilkara zapota (Sappota) / Annona	
46	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	<i>Terminalia bellirica</i> (Thandri)	1850
	Grand Total	6,58,903

View on Flora



Coconut plantation (Cocus 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

View of Fauna



Sickle bush



Jackal jujube



Cat Snake



Grey slender loris



Tawny coster



Camelian



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 DA

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 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 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, 4/1 to 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, 43/1 to 10, 44/1 to 6, 45/1 to 4, 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, 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 Digitally signed by RAMASAMY RAJAMANICKAM RAJAMANICKAM Date: 2022.07.15 21:40:39 +0530'

For Member Secretary, Tamil Nadu Pollution Control Board, Chennai

То

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 DA

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 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 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, 43/1to 10, 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.

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

То

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 DATE

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., 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.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. ,

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

То

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

1

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 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.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 Pate: 2022.07.15 21:49:17 For Member Secretary,

Tamil Nadu Pollution Control Board, Chennai

То

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

1

அனுப்புநர்::

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

பெறுநா::

கண்காணிப்புப் பொறியாளர், பொதுப்பணித்துறை (நீஆது), நடுக்காவிரி வடிநில வட்டம், திருச்சிராப்பள்ளி-20

		ந.க.அ1 /15426/ 2020	நாள்: 26.09.2020
அய்யா,			
	பொருள்::		பட்டம் – தமிழ்நாடு செய்திதான் காகித அற்றிலிருந்து தனது தொழிற்தாலை

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) நடுகாவிரி வடிநிலவட்டம், கடித எண்: 62ஆ-வபி-வ7-கோ.TNPL/2020 நாள்:18.07.2020.

- அரசாணை (நிலை) எண்.18, பொதுப்பணி (எண்.2) துறை, நாள்: 22.01.2015.
- அரசாணை (நிலை) எண்.227, பொதுப்பணி (W2) துறை நாள்:20.11.2017.
- ஸ்ரீரங்கம் உதவி ஆட்சியர் அவர்களின் கடித எண்:A2/3378/2020 நாள்:15.09.2020.

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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 ஆற்றிலிந்து 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 தொடர்து பார்வை 4-ல் காணும் ஸ்ரீரங்கம் உதவி ஆட்சியரின் அறிக்கை பெறப்பட்டு பரிசீலனை செய்யப்பட்டது.

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

- மேலும் தண்ணீர் மற்றும் காற்று சட்டங்களின் கீழ், 31.03.2020 வரை செல்லத்தக்க தமிழ்நாடு மாசுக்கட்டுபாட்டு வாரியம் வழங்கிய இசைவு ஆணையின் நகலை தமிழ்நாடு செய்தித்தாள் மற்றும் காகித நிறுவனம் சமர்ப்பித்துள்ளது.
- 2. மேற்படி நிறுவனம் நாளொன்றிற்கு 23.10MLD தண்ணீர் எடுத்துவருகிறார்கள். மேலும் காகிதம் தயாரிக்க பயன்படுத்தப்பட்ட கழிவுநீர் நவீன முறையில் கத்திகரிப்பு செய்யப்பட்டு இறுதியாக கிடைக்கப்பெறும் நீர் வண்டல் தேங்கும் அமைப்பில் சேகரிக்கப்பட்டு கிடைக்கும் நீரும்,வண்டலும் அருகாமையில் உள்ள விளைநிலங்களுக்கு இலவசமாக வழங்கப்படுகிறது.
- 3. தமிழ்நாடு செய்தித்தாள் மற்றும் காகித 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.

- 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 தண்ணீா் எடுத்துக்கொள்ள 31.10.2020 முதல் 31.10.2025 வரை ஐந்து வருடங்களுக்கு ஒப்பந்த காலத்தினை நீட்டித்து நாள்:20.11.2017-ல் அரசாணை பொதுப்பணி (W2) (ត្រាលា) எண்.227. துறை நிபந்தனைகளுக்கு உட்பட்டு அனுமதி வழங்கலாம் என்பதை தெரிவிக்கபட்டுள்ள தெரிவித்துக்கொள்கிறேன்.

> ஒம்/-சு.சிவராசு, மாவட்ட ஆட்சித் தலைவர், திருச்சிராப்பள்ளி.

/உத்தரவுப்படி/

மாவட்ட ஆட்சித் ருக்காக. கிருச்சிராப்பள்ளி.

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 1), 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 6, 4/1to 3, 5/1 to 3, 6/1 to 4, 7/1, 2 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, 19
- 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 up to 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 <u>PURCHASED BY THE ACTUAL USERS</u> (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 W	lastas parmittad for progurament and reguling.

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

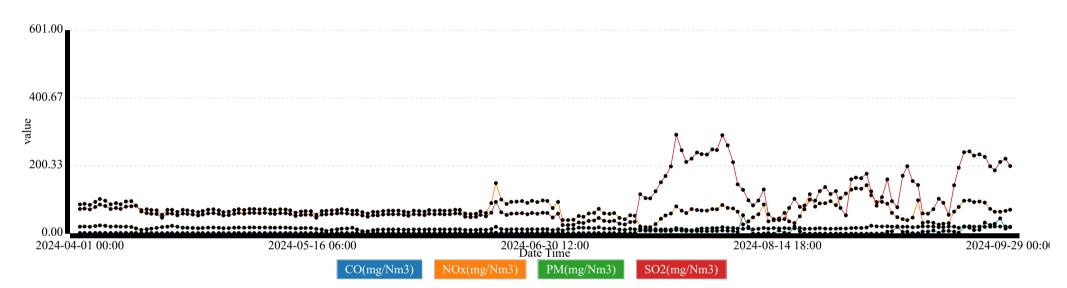


Tamil Nadu Newsprint And Papers Limited - Unit II (Captive Co Generation Plant), Manapparai

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







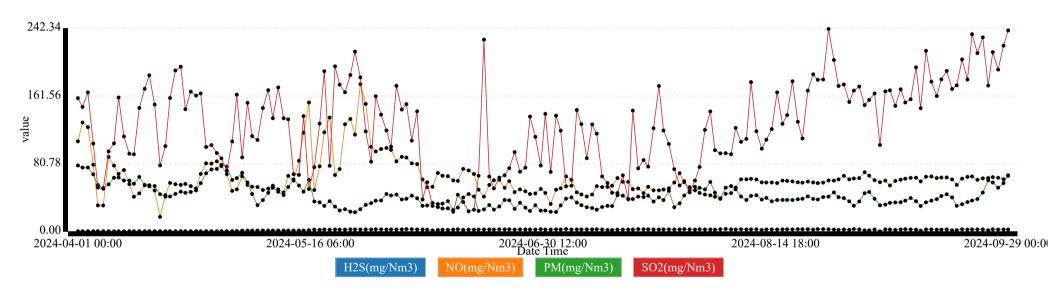
SRP_Boiler-daily - Average Data

Average Report

Tamilnadu Newsprint and Papers Limited UNIT II, Trichy

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

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







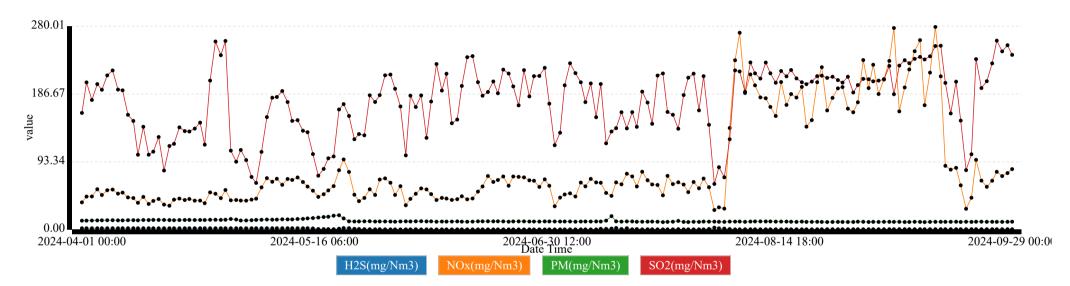
Lime_Kiln-daily - Average Data

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









CALIBRATION REPORT FOR GAS ANALYZER

TNPL, UNIT - II.			Model: S710 - MULTOR		SICK INDIA PVT LTD			
Date: 25.01.2024			Equipr	nent Number: 1. S7	10(S.N.716189)	Done by: Bhuvaneshw Witness by: Mr. Rajeysh		
Analy	zer Location:	Stack – CEM	IS					
Analy	zer Range: 0 -	- 200 mg/m3						
Onlin	e Result: 11 m	g/m3						
Isokir	netic Sampling	Result: 13 i	mg/m3					
Calib	ration Due Dat	e: 24.01.202	5					
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/m3	0.01 mg/m3	-0.000 %	0.002 mg/m3	0.4 %
2	Factory Call	Nil	SPM	00.00 % of the full scale (140 mg/m3)	145 mg/m3	0.19 %	140 mg/m3	0.4 % (Factor 10)







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
				SO2	N2(99.999%)	436	432	0.09%
1	Zero	112280`	31.12.2024	NO	N2(99.999%)	0.10	0.0	0.08%
				CO	N2(99.999%)	0.23	00	0.11
		N44407005		SO2	432 PPM	436	432	-0.91%
2	Span	Span M1407005 31.12.2024 NO	292 PPM	289	292	1.03%		
				CO	282 PPM	285	282	-1.05





DURAG INDIA

Calibration Report D-R 290 2G

Date: 03.05.2024

REV 1/45/4010029021620193101

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

Stack Name	Recovery Boil	ler
Device Type	Measuring Head	Reflector
Model Number	D-R 290 M	D-R 290 R11
Serial Number	1287788	1288780
Calibration Pathlength	Flange to Flange	distance is 6400 mm

Parameter Details:					
Raw signal	Optical Density	Optical Density			
Raw signal range	0 to 2.0 OD	0 to 2.0 OD			
Analog signal output	Dust concentration.	Dust concentration.			
Dust concentration range	0 to 200 mg/m3	0 to 200 mg/m3			
Integration time	30 Sec.	30 Sec.			
Calibration Details:	1				
Calibration cycle	Output	Tolerance			
Zero point	10.0 %	-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 STRUM 19-12 Indational

DURAG INDIA INSTRUMENTATION PRIVATE LIMITED

Authorite Stanature

28-8/1, K.I.A.D.B, Peenya 1st Stage | Peenya, Bengaluru 560 058 | Karnataka, India | Plione +91 80 66980 700 | Intel attail durag.com

PAN: AACCD1792R | CIN-U33130KA2005PTC039133 | MSMED Reg No. 290201111591 | GSTIN Reg No. 29AAC003792R121 Commissionerabi: Bengaluru North West I Div: North West Div-1, Range; BNWD1

Bank details: ICICI Bank Amited I Rajajinaga: Branch, Bengahich / Current a/c: 029605004006 Bank Code/MICR: 5602290231SWIFT: ICICINBBC151RTGS/NFF1/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 /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, S02, 02
Power Supply	230 VAC +/-10(50HZ)

PARAMETER DETAILS:

Parameter Type	Signal	Input	Value
NO			48014
302			28179
02			10054

AVAILABLE CYLINDER DETAILS:

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

Calibration Check: ZERO Calibration

Gas Gas	Feeding Gas Conc.	NO Before calibration	NO After calibration	502 Before calibration	SO2 After calibration
N2	99.999%	1.2 PPM	0 56W	6 PFM	0 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
02	21%	10.01%	14.5%	10.01%

NO, SOZ Zero calibration: Found ok

NO, SO2 Span calibration: Found ok

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Signature of Fuji Engineer

Remark:

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

Page 1of 1



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

	Before Calibration							After Ca	libration			
etter		Zero			Span			Zero			Span	
Parameter	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
H25	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.

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DURAG INDIA

Calibration Report D-R 290 2G

Date: 02.05.2024

REVIAL MINE29026-2019 HT

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

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	fistance is 1852 nm

Parameter Details:						
Raw signal	Optical Density	Optical Density				
Raw signal range	10 to 2.0 OD	10 to 2.0 OD				
Analog signal output	Dust concentration.	Dust concentration.				
Dust concentration range	0 to 200 mg/m3	0 to 200 mg/m3				
Integration time	30 Sec.	30 Sec.				
Calibration Details:	1					
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 Either Light source or Main PCB in Measuring Head of dust monitor.

For Durag India Instrumentation Private Limited

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DURAG INDIA INSTRUMENTATION PRIVATE LIMITED

28-B/1, K I.A.D.B. Peenya 1st Stage I Prenya, Brigatura 560 (158 I Karnataka, India I Phone 491.80 53980 700 Linfo3ndia@durag.com

FAN: AACCD3792R | CIN:U33130KA2006PTC039133 | MSMED Reg No: 290201111591 | GSTIN Reg No: 29AAC2D3792R1ZT Commissionerate: Benjaluru-North West | Div: North West Div-3, Range:BNWD1

Bank details: ICICI Bank Limited I Rujajinagal Branch, Bengaluru I Current a/c: 029605004006 Bank Code/MICE: 560229023 I SWIFT: ICICINBBCTS / RTG5/NEFT/FSC/ICIC0000296 10 FURSIVO

Date: 20/ 03/2024

Certificate Number: NA

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

CALIBRATION REPORT

Room Temperature: 25' C

Continuence rounder, 1471	TECOM A COMPACT AND D
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-YYYYZDE-YEYAA
SERIAL NUMBER	N1P1206
Measuring Gas	NO, S02, 02
Power Supply	230 VAC +/-10(50HZ)

PARAMETER DETAILS:

Parameter Type	Signal Input Value
NO	47743
.302	28074

AVAILABLE CYLINDER DETAILS:

Cylinder TYPE	Cylinder TYPE
Zero Gas N2	99,999%
Span Gas NO	479 PPM
Span Gas SO2	472 PPM
02 Lower	1.6 #
02 Higher	20.5%

Calibration Check: ZERO Calibration

Feeding	Feeding Gas	NO Before	NO After calibration	SO2 Before	SO2 After
Gas	Conc.	calibration		calibration	calibration
N2	99.999%	12 PPM	O PPM	H PPM	O 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

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Signature of Fuji Engineer

Remarks:

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

Page 1of 1



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

	Before Calibration				After Calibration							
etter		Zero			Span			Zero			Span	
Parameter	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
H25	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.

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www.ctllabs.in

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					
mple 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 (NO2)	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

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 molign, defame and for any malicious purpose. The Report is meant only far 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





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TEST REPORT

CTL/CH/N-21504/2024-25 & 03.05.2024
N-21504/24-25
M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 621 306, Tamil Nadu.
Laboratory
Indoor Air
Indoor Air Quality
FINISHING HOUSE AREA
24.04.2024
27.04.2024
CTL/QSP/F-89 & CTL/SOP/AIR/024
1 No
RDS Sampler S.No:2932-DTL-2020
27.04.2024
03.05.2024

Test Results:

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

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
i 1 :	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m³	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

Authorised Signatory

Page 1 of 1

G. MANIKANDAN Head - Environment Division (CHEMICAL)

The Report shall not be used to malign, deforme and far any malicious purpose. The Report is meant only for sale 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





www.ctllabs.in

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
hmple 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 1	SUSPENDED PARTICULATE MATTER(SPM)	JS 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)	lS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.051	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppn	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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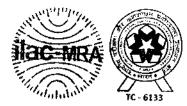
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G. MANIKANDAN Head - Environment Division (CHEMICAL)

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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 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,				
Name of the Customer					
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				
ample 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 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*
./	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 R	eport No & Date	CTL/CH/N-21507/2024-25 & 0	3.05.2024					
Sampl	le Number	N-21507/24-25						
Name	of the Customer	M/S. TAMIL NADU NEWSPRINT	AND PAPERS LIM	ITED - UNIT II,				
Addre	SS	Mondipatti Village, K.Periyapatti	Post, Manapparai T	aluk,				
		Trichy District - 621 306, Tamil N	ladu.					
Sampl	e Drawn by	Laboratory	<u> </u>					
Sampl	e Name	Indoor Air						
Sampl	e Description	Indoor Air Quality						
Sampl	ing Location	HARDWOOD CHIPPER SCREEN AREA 24.04.2024 27.04.2024 CTL/QSP/F-89 & CTL/SOP/AIR/024 1 No RDS Sampler S.No:2611-DTI-2019 27.04.2024 03.05.2024						
Sampl	e Drawn on							
ിന്നpl	e Received on							
Sampl	ing Plan & Procedure							
Sampl	e Quantity							
Equipr	nent used for Sampling							
Analys	sis Started on							
Analys	sis Completed on							
<u>Test Re</u>			·· ·· ··					
The abo	we sample tested as received, and	results are as follows:	1					
SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*			
1	SUSPENDED PARTICULATE	IS 5182 (Part 4) - 1999	mg/m ³	1.120	15*			

	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*
Γ	4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
Ì	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

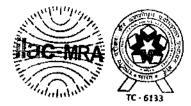
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TEST REPORT

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 11,	
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	
imple 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 BDL - Below Detection Limit(D.L - Detection Limit)

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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 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II, Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,				
Name of the Customer					
Address					
	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				
imple 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 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 BDL - Below Detection Limit(D.L - Detection Limit)

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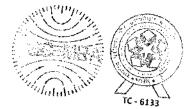
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TEST REPORT

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 (NO2)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.032	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	քբա	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	0.011	0.05*

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

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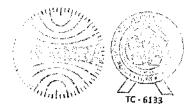
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TEST REPORT

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,				
	Tríchy 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				

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 (SO2)	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 BDL - Below Detection Limit(D.L - Detection Limit)

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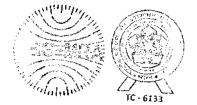
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TEST REPORT

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:	30.03.2024				

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	നു/m ³	0.227	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m³	0.024	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.042	g *
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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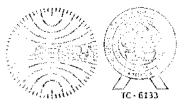
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TEST REPORT

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, Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,				
Address					
	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				

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

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
	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	ррт	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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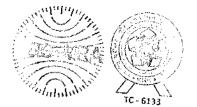
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TEST REPORT

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*
F 1	SUSPENDED PARTICULATE MATTER(SPM)	iS 5182 (Part 4} - 1999	nıg/m³	0.983	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg∕m³	0.029	13*
3	OXIDES OF NITROGEN (NO₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.052	Ģ*
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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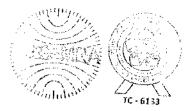
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TEST REPORT

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		

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

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.187	15*
2	SULPHUR DIOXIĐE (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 BDL - Below Detection Limit(D.L - Detection Limit)

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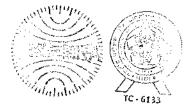
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TEST REPORT

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,			
	Tríchy 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/m³	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	րբա	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-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 11,			
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			

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

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1 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				
<u>Test Results:</u>					

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)	lS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.028	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	թթու	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	nıg/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-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			
Equipme : used for Sampling	RDS Sampler S.No:2933-DTL-2020			
Analysis Started on	27.06.2024			
Analysis Completed on	03.07.2024			

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 (SO2)	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	թթո	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 - Belum Detection Limit(D.L - Detection Limit)

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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	1/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT 11,				
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 Ovantity	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	ŲNITS	RESULTS	LIMITS*
F 1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.478	15*
2	SULPHUR DIOXIDE (SO2)	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	թթա	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0,0001)	0.05*

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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				

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	1.090	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	ррт	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-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, Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,					
Address						
	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	թրու	BDL(DL:1.0)	50*
5	Lር (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-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	ррт	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

Name of the CustomerM/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,AddressMondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.Sample Drawn byLaboratorySample NameIndoor AirSample DescriptionSecondary Fugitive Emission MonitoringSample Drawn on29.07.2024Sample Received on01.08.2024Sample Quantity1 NoEquipment used for SamplingRDS Sampler S.No:2023-DTD-2016Analysis Started on01.08.2024	Test Report No & Date	CTL/CH/N-26953/2024-25 & 07.08.2024		
AddressMondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu.Sample Drawn byLaboratorySample NameIndoor AirSample DescriptionSecondary Fugitive Emission MonitoringSample Drawn on29.07.2024Sample Received on01.08.2024Sample QuantityTrL/QSP/F-89 & CTL/SOP/AIR/024Sample Quantity1 NoEquipment used for SamplingRDS Sampler S.No:2023-DTD-2016Analysis Started on01.08.2024	Sample Number	N-26953/24-25		
Trichy District - 621 306, Tamil Nadu.Sample Drawn byLaboratorySample NameIndoor AirSample DescriptionSecondary Fugitive Emission MonitoringSampling LocationCOAL STORAGE AREASample Drawn on29.07.2024Sample Received on01.08.2024Sample QuantityI NoEquipment used for SamplingRDS Sampler S.No:2023-DTD-2016Analysis Started on01.08.2024	Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT 11,			
Sample Drawn byLaboratorySample NameIndoor AirSample DescriptionSecondary Fugitive Emission MonitoringSampling LocationCOAL STORAGE AREASample Drawn on29.07.2024Sample Received on01.08.2024Sampling Plan & ProcedureCTL/QSP/F-89 & CTL/SOP/AIR/024Sample Quantity1 NoEquipment used for SamplingRDS Sampler S.No:2023-DTD-2016Analysis Started on01.08.2024	Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,		
Sample NameIndoor AirSample DescriptionSecondary Fugitive Emission MonitoringSampling LocationCOAL STORAGE AREASample Drawn on29.07.2024Sample Received on01.08.2024Sampling Plan & ProcedureCTL/QSP/F-89 & CTL/SOP/AIR/024Sample Quantity1 NoEquipment used for SamplingRDS Sampler S.No:2023-DTD-2016Analysis Started on01.08.2024		Trichy District - 621 306, Tamil Nadu.		
Sample DescriptionSecondary Fugitive Emission MonitoringSampling LocationCOAL STORAGE AREASample Drawn on29.07.2024Sample Received on01.08.2024Sampling Plan & ProcedureCTL/QSP/F-89 & CTL/SOP/AIR/024Sample Quantity1 NoEquipment used for SamplingRDS Sampler S.No:2023-DTD-2016Analysis Started on01.08.2024	Sample Drawn by	Laboratory		
Sampling LocationCOAL STORAGE AREASample Drawn on29.07.2024Sample Received on01.08.2024Sampling Plan & ProcedureCTL/QSP/F-89 & CTL/SOP/AIR/024Sample Quantity1 NoEquipment used for SamplingRDS Sampler S.No:2023-DTD-2016Analysis Started on01.08.2024	Sample Name	Indoor Air		
Sample Drawn on29.07.2024Sample Received on01.08.2024Sampling Plan & ProcedureCTL/QSP/F-89 & CTL/SOP/AIR/024Sample Quantity1 NoEquipment used for SamplingRDS Sampler S.No:2023-DTD-2016Analysis Started on01.08.2024	Sample Description Secondary Fugitive Emission Monitoring			
Sample Received on01.08.2024Sampling Plan & ProcedureCTL/QSP/F-89 & CTL/SOP/AIR/024Sample Quantity1 NoEquipment used for SamplingRDS Sampler S.No:2023-DTD-2016Analysis Started on01.08.2024	Sampling Location	COAL STORAGE AREA		
Sampling Plan & ProcedureCTL/QSP/F-89 & CTL/SOP/AIR/024Sample Quantity1 NoEquipment used for SamplingRDS Sampler S.No:2023-DTD-2016Analysis Started on01.08.2024	Sample Drawn on	29.07.2024		
Sample Quantity1 NoEquipment used for SamplingRDS Sampler S.No:2023-DTD-2016Analysis Started on01.08.2024	Sample Received on	01.08.2024		
Equipment used for SamplingRDS Sampler S.No:2023-DTD-2016Analysis Started on01.08.2024	Sampling Plan & Procedure	CTL/QSP/F-89 & CTL/SOP/AIR/024		
Analysis Started on 01.08.2024	Sample Quantity	1 No		
	Equipment used for Sampling	RDS Sampler S.No:2023-DTD-2016		
Analysis Completed on 07.08.2024	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

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

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TEST REPORT

CTL/CH/N-26957/2024-25 & 07.08.2024
N-26957/24-25
M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 621 306, Tamil Nadu.
Laboratory
Indoor Air
Secondary Fugitive Emission Monitoring
FINISHING HOUSE AREA
30.07.2024
01.08.2024
CTL/QSP/F-89 & CTL/SOP/AIR/024
1 No
RDS Sampler S.No:2932-DTL-2020
01.08.2024
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/m³	0.086	15*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m³	0.01	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m³	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*

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*Occupational Safety and Health Standards

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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				
Analysis completed on	07.08.2024				

Test Results:

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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 (NO2)	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 (۲۵)	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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G. MANIKANDAN Head - Environment Division (CHEMICAL)

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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:

Verified by

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

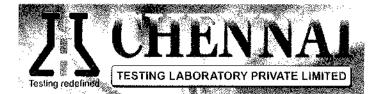
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G. MANIKANDAN Head - Environment Division (CHEMICAL)

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TEST REPORT

Test Report No & Date CTL/CH/N-26955/2024-25 & 07.08.2024				
N-26955/24-25				
M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT 11,				
Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,			
Trichy District - 621 306, Tamil Nadu.				
Laboratory				
Indoor Air				
Sample Description Secondary Fugitive Emission Monitoring				
Sampling Location HARDWOOD CHIPPER SCREEN AREA				
29.07.2024				
01.08.2024				
CTL/QSP/F-89 & CTL/SOP/AIR/024				
1 No				
RDS Sampler S.No:2611-DTI-2019				
01.08.2024				
07.08.2024				
	 N-26955/24-25 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II, Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu. Laboratory Indoor Air Secondary Fugitive Emission Monitoring HARDWOOD CHIPPER SCREEN AREA 29.07.2024 01.08.2024 CTL/QSP/F-89 & CTL/SOP/AIR/024 1 No RDS Sampler S.No:2611-DTI-2019 01.08.2024 			

<u>Test Results:</u>

AL Verified by

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

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
I 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 (NO2)	lS 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

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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)	lS 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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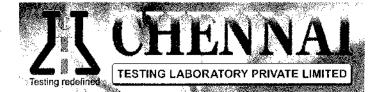
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TEST REPORT

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				
Sampl e 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 (SO2)	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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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/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	

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

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	l\$ 5182 (Part 4) - 1999	mg/m ³	0.269	15*
2	SULPHUR DIOXIDE (SO _z)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.024	13*
3	OXIDES OF NITROGEN (NO2)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.043	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ррт	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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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

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

SL.NO	PARAMETERS	METHÓÐS	UNITS	RESULTS	LIMITS*
1 1	SUSPENDED PARTICULATE MATTER(SPM)	IS 5182 (Part 4) - 1999	mg/m ³	0.072	15*
2	SULPHUR DIOXIDE (\$0 ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m³	0.012	13*
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m³	0.020	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ppm	BDL(DL:1.0)	50*
5	LEAD (Pb)	NłOSH 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

CTL/CH/N-28106/2024-25 & 02.09.2024					
N-28106/24-25					
M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT 11,				
Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,					
Trichy District - 621 306, Tamil Nadu.					
Laboratory					
Indoor Air					
Secondary Fugitive Emission Monitoring					
CHEMICAL ADDITIVE AREA					
22.08.2024					
24.08.2024					
CTL/QSP/F-89 & CTL/SOP/AIR/024					
1 No					
RDS Sampler S.No:2611-DTI-2019					
24.08.2024					
02.09.2024					
	N-28106/24-25M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,Trichy District - 621 306, Tamil Nadu.LaboratoryIndoor AirSecondary Fugitive Emission MonitoringCHEMICAL ADDITIVE AREA22.08.202424.08.2024CTL/QSP/F-89 & CTL/SOP/AIR/0241 NoRDS Sampler S.No:2611-DTI-201924.08.2024				

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	0.338	15*
2	SULPHUR DIOXIDE (SO ₂)	I\$ 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 BDL - Below Detection Limit(D.L - Detection Limit)

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TEST REPORT

CTL/CH/N-28107/2024-25 & 02.09.2024	
N-28107/24-25	
M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,	
Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,	
Trichy District - 621 306, Tamil Nadu.	
Laboratory	
Indoor Air	
Secondary Fugitive Emission Monitoring	
ASH HANDLING AREA	
21.08.2024	
24.08.2024	
CTL/QSP/F-89 & CTL/SOP/AIR/024	
1 No	
RDS Sampler S.No:2000-DTC-2016	
24.08.2024	
02.09.2024	
	 N-28107/24-25 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II, Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu. Laboratory Indoor Air Secondary Fugitive Emission Monitoring ASH HANDLING AREA 21.08.2024 24.08.2024 CTL/QSP/F-89 & CTL/SOP/AIR/024 1 No RDS Sampler S.No:2000-DTC-2016 24.08.2024

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

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	I\$ 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)	(S 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.038	g*
4	CARBON MONOXIDE (CO)	NIOSH 6604	ррт	BDL(DL:1.0)	50*
5	LE <u>^.D</u> (Pb)	NIOSH 7082	mg/m³	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-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, К.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	

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 (NO2)	lS 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	ng/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

CTL/CH/N-28109/2024-25 & 02.09.2024	
N-28109/24-25	
M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,	
Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,	
Trichy District - 621 306, Tamil Nadu.	
Laboratory	
Indoor Air	
Secondary Fugitive Emission Monitoring	
SRP - CAUSTICIZER AREA	
21.08.2024	
24.08.2024	
CTL/QSP/F-89 & CTL/SOP/AIR/024	
1 No	
RDS Sampler S.No:2613-DTI-2019	
24.08.2024	
02.09.2024	
	 N-28109/24-25 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II, Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu. Laboratory Indoor Air Secondary Fugitive Emission Monitoring SRP - CAUSTICIZER AREA 21.08.2024 24.08.2024 CTL/QSP/F-89 & CTL/SOP/AIR/024 1 No RDS Sampler S.No:2613-DTI-2019 24.08.2024

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

SLNO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
	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 (NO2)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.030	9*
4	CARBON MONOXIDE (CO)	NIOSH 6604	քրո	BDL(DL:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	mg/m³	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-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

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

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1 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)	N10SH 6604	րրա	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

CTL/CH/N-29772/2024-25 & 03.10.2024	
N-29772/24-25	
M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,	
Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,	
Trichy District - 621 306, Tamil Nadu.	
Laboratory	
Indoor Air	
Secondary Fugitive Emission Monitoring	
COAL STORAGE AREA	
19.09.2024	
22.09.2024	
CTL/QSP/F-89 & CTL/SOP/AIR/024	
1 No	
RDS Sampler S.No:2610-DTI-2019	
23.09.2024	
03.10.2024	
	 N-29772/24-25 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II, Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu. Laboratory Indoor Air Secondary Fugitive Emission Monitoring COAL STORAGE AREA 19.09.2024 22.09.2024 22.09.2024 CTL/QSP/F-89 & CTL/SOP/AIR/024 1 No RDS Sampler S.No:2610-DTI-2019 23.09.2024

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

GROUP : ATMOSPHERIC POLLUTION

SŁ.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	lS 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:

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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	թթու	BLQ(LOQ:1.0)	50*
5	LEAD (Pb)	NIOSH 7082	ing/m ³	BLQ(LOQ:0.0001)	0.05*

*Occupational Safety and Health Standards

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

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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*
7	SUSPENDED PARTICULATE MATTER(SPM)	I\$ 5182 (Part 4)	mg/m ³	0.241	15*
2	SULPHUR DIOXIDE (SO ₂)	1\$ 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:

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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

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)	NIOSII 7082	mg/m³	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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TEST REPORT

Test Report No & Date	CTL/CH/N-29770/2024-25 & 03.10.2024 N-29770/24-25 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,				
Sample Number					
Name of the Customer					
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

010001	Interior indiate of the street				
SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
1	SUSPENDED PARTICULATE MATTER(SPM)	lS 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	րթա	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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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	Monđipatti 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 Beawn 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	ONDES OF NITROGEN (NO ₂)	IS 5182 (Part 6)	ng/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

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

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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 11,		
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		

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

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS*
	SUSPENDED PARTICULATE MATTER(SPM)	l\$ 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	Å≰
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:

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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 - ili

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







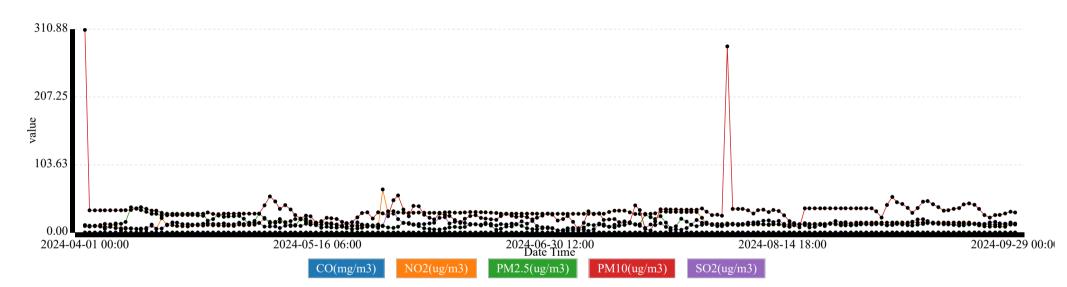
AAQMS-daily - Average Data

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







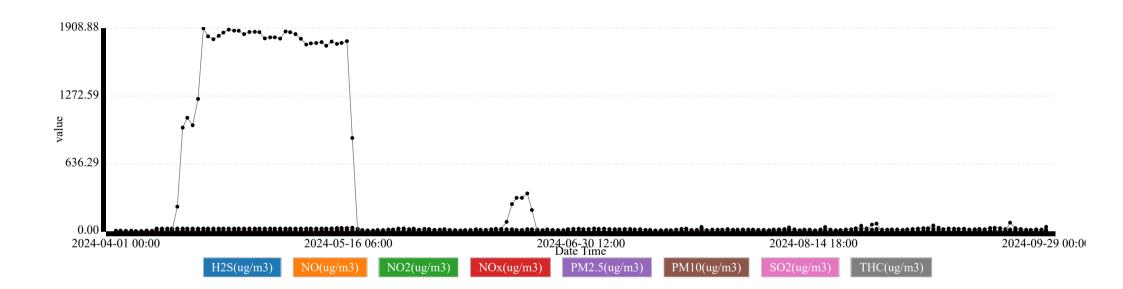
UNITII_WEST_GATE-daily - Average Data

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







Certificate No: CTL/CAAQMS/003		
Customer Name & Address	Date of Calibration	18.9.2024
M/s Tamilnadu Newsprint and Paper Ltd,unit –		
II, Mondipatti village,K.periyapatti	Calibration Due Date	17.9.2025
post,Manapparai		
Taluk,Trichy-621306		

Details of Unit under Calibration

Description	SO2 An	alyser		Make	OPSIS	
Range	0-1000	µg/m3		Model	AR500S	
Resolution	+/- 1.0			Operating Range	0-1000 μg/m3	
Serial Number	NA	NA		Condition of UUC	Good	
Cylinder Sl No	HSN2	804		Cylinder Expiry Date	15.9.2025	
Location Top of				security Gate		
Environmental Condition						
Temperature (°C)	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



Customer Name & Address	Date of Calibration	18.9.2024			
M/s Tamilnadu Newsprint and Paper Ltd,unit –II, Mondipattivillage,K.periyapatti post,Manapparai	Calibration Due Date	17.9.2025			
Taluk,Trichy-621306	Analyser Make/Model	OPSIS/AR500S			
	Range	0-1000(µg/m3)			
Results of calibration					

Parameter	CEM S Value (µg/ m3)	Reference Value(µg/m3)	Relative Accuracy(%) Acceptance criteria(≤10%)	Bias (%) Acceptance criteria(≤4%)	Bias Adjustmentfactor
Sulphur dioxide(SO2) (µg/m3)	13.6	15.6			
	10.8	16.7			
	13.1	18.2			
	13.7	13.4			
	12.1	15.2	0.54	0.24	1.302
	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 converted in to CPCB.

Signature anny



Certificate No: CTL/CAAQMS/004		
Customer Name & Address	Date of Calibration	18.9.2024
M/s Tamilnadu Newsprint and Paper Ltd,unit –II, Mondipatti		
village,K.periyapatti post,Manapparai	Calibration Due Date	17.9.2025
Taluk,Trichy-621306	· · · · · ·	

Details of Unit under Calibration

Description	NO2 Analyser M			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 Sl No	HSN2804			Cylinder Expiry Date	15.9.2025	
Location	Top of Secu			rity Gate		
	Environmental Condition					
Temperature (°C)	32			Pressure (mbar)	1011	
Humidity (%RH)	67					

Results of Calibration

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



Customer Name & Address	Date of Calibration	18.9.2024 17.9.2025			
M/s Tamilnadu Newsprint and Paper Ltd, unit –II, Mondipatti village, K. periyapatti post, Manapparai	Calibration Due Date				
Taluk,Trichy-621306	Analyser Make/model	OPSIS/AR500S			
	Range	0-1000(μg/m3)			
Results of Calibration					

Certificate No: CTL/CAAQMS/004

Parameter	CEMS Value(µg/m3)	Reference Value(µg/m3)	Relative Accuracy(%) Acceptance criteria(≤10%)	Bias (%) Acceptance criteria(≤4%)	Bias Adjustment factor
Nitrogen Dioxide(NO2)	16.3	17.8			
	15.2	19.9			
	15.7	20.1			
	16.8	21.2			
	15.6	22.3	0.47	0.18	1.21
	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 converted in to CPCB.

Signature anny



Certificate No: CTL/CAAQMS/005		Page No:1 of 1
Customer Name & Address	Date of Calibration	18.9.2024
M/s Tamilnadu Newsprint and Paper Ltd,unit –II, Mondipatti		
village,K.periyapatti post,Manapparai	Calibration Due Date	17.9.2025
Taluk,Trichy-621306		

Details of Unit under Calibration

Description	CO Analyser M			Make	OPSIS	
Range	0-62.5mg/m3			Model	AROPS30	
Resolution	+/- 1.0			Operating Range	0-62.5mg/m3	
Serial Number	NA			Condition of UUC	Good	
Cylinder Sl No	HSN28	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 Calibr	ration (ppm)	Span Ca	libration (ppm)	Error (%)
	Standard value	Measured Value	Standard value	Measured Value	
Carbon monoxide as CO	0	0	10	10.5	5.0



Customer Name & Address	Date of Calibration	18.9.2024	
i/s Tamilnadu Newsprint and Paper Ltd,unit –II, Mondipa Ilage,K.periyapatti post,Manapparai	Calibration Due Date	17.9.2025 OPSIS/OPS30	
Taluk, Trichy-621306	Analyser Make/model		
	Range	0-62.5(mg/m3)	

Certificate No: CTL/CAAQMS/005

Parameter	CEMS Value(µg/m3)	Reference Value(µg/m3)	Relative Accuracy(%) Acceptance criteria(≤10%)	Bias (%) Acceptance criteria(≤4%)	Bias Adjustment factor
Carbon monoxide analyser(CO) (mg/m3)	0.40	0.23			
	0.35	0.29			
	0.41	0.33			
	0.44	0.38			
	0.42	0.42	- 0.04	-0.18	0.75
	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 converted in to CPCB.

Signature





Certificate No: CTL/CAAQMS/001

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

Details of Unit under Calibration

Description	PM10 An	PM10 Analyser		Make		OPSIS
Range	0-1000µg	g/m3		Model		SM200
Resolution	+/- 1.0		Operating Range		0-1000 μg/m3	
Serial Number	NA	NA		Condition of UUC		Good
Cylinder Sl No	NA	NA		Cylinder Expiry Date		NA
Location			Top of S	ecurity Gate		
Environmental Condition						
Temperature (°(C)	32		Pressure (mb	ar)	1011
Humidity (%RH)	67				



Certificate No: CTL/CAAQMS/001		
Customer Name & Address	Date of Calibration	18.9.2024
M/s Tamilnadu Newsprint and Paper Ltd,unit–II, Mondipattivillage,K.periyapatti post,Manapparai	Calibration Due Date	17.9.2025
Mondipattivillage,K.periyapatti post,Manapparai Taluk,Trichy-621306	Analyser Make/Model	OPSIS/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			
	46.7	43.4			
	46.4	47.8			
	46.0	45.6			
	46.6	44.5	0.05	-0.28	0.975
	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 converted in to CPCB.

Signature

CHENNAL 600 032

samme



Certificate No: CTL/CAAQMS/002					
Customer Name & Address	Date of Calibration	18.9.2024			
M/s Tamilnadu Newsprint and Paper Ltd,unit –II, Mondipatti village,K.periyapatti post,Manapparai	Calibration Due Date	17.9.2025			
Taluk,Trichy-621306					

Details of Unit under Calibration

Description	PM2.5 Analyser N		Make		OPSIS	
Range	0-1000	0-1000 μg/m3		Model		SM200
Resolution	+/- 1.0		Operating Range		0-1000 μg/m3	
Serial Number	NA		Condition of UUC		Good	
Cylinder Sl No	NA		Cylinder Expiry Date		NA	
Location	Location Top of Secur			ity Gate		
			Enviro	onmental Conc	lition	
Temperature (°C)	32		Pressure (mb	par)	1011	
Humidity (%RH)		67				
ι				1		

Signature

Danny





Date of Calibration	18.9.2024
Calibration Due Date	17.9.2025
Analyser make/model	OPSIS/SM200
Range	0-1000 (μg/m3)
Results of Calibration	
	Calibration Due Date Analyser make/model Range

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			
	11.7	13.9			
	11.3	14.6			
	10.9	15.2			
	11.5	16.3	0.43	0.19	1.268
	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 converted in to CPCB. Signature

Danny CHENNA 600 033

Tan	niinadu Nev	wsprint an	d Papers Li	imited UN	ІТ ІІ		
Online AAQ Monitoring (Main Gate) - April'2024							
Date	AAQMS-CO (mg/Nm [*])	AAQMS- NO2 (µg/m ³)	AAQMS- PM2.5 (Mg/m ³)	AAQMS- PM10 {µg/m ⁵ }	AAQMS-SD) (µg/m²)		
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	14.25		
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		
Мах	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 Analayser Maintenance

GENERAL MAÑAGER R&D AND QC TAMILNADU NEWSPRINT AND PAPERS LIMITED (BOARD DA 15KON) MONDIPATTI, K.PERIYAPATTI (PO), MANAPPARAI (TK.), TRICHY (DT)-621396.

Ол	line AAQ M	lonitoring	(Main Gate	e) - Mav'2	024
Date	AAQMS-CO (mg/Mm ⁴)	AAQMS- NO2 (µg/m ³)	AAQMS- PM2.5 (µg/m ³)	AAQMS- PM10 (wg/m ³)	AAQMS-SO: (µg/m ¹)
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	9.22	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
Мах	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

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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

Idi	nilnadu Nev		-		
Date	AAQMS-CO (mg/Nm ²)	AAQ Monii AAQMS- NO2 (µµ/m³)	AAQMS- Jun AAQMS- PM2.5 (µg/m ³)	e'2024 (M AAQMS- PM10 (µg/m ³)	AAQMS-SO (µg/m²)
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
07-05-2024	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	30.45	4,97	29.28	22.71
10-06-2024	0.34	31.06	6.31	27.36	23.75
11-05-2024	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

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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.

Tan	iinadu New	sprint and	Papers Ur	nited UNI	TII		
Online AAQ Monitoring (Main Gate) - July'2024							
Date	AAQMS-CO (mg/Nm ³)	AAQMS- NO2 (μg/m ⁵)	ΑΑQM5- PM2.5 (μg/m ³)	AAQMS- PM10 (µg/m ³)	AAQMS-SO: (µg/m ⁵)		
01-07-2024	0.37	28.94	6.98	27.59	6.8		
02-07-2024	0.38	28.88	3.53	18.64	34		
03-07-2024	0.36	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		
05-07-2024	0.38	28.66	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	12.05	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

-	nilnadu Nev				
Onli	ne AAQ Mo				2024
Date	AAQMIS-CO (mg/Nm ²)	AAQMS- NO2 (µg/m ⁵)	AAQMS- PM2.5 (µg/m ³)	AAQMS- PM10 (µg/m ³)	AAQMS-SO: (µg/m ³)
01-08-2024	0.38	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	284.54	11.55
05-08-2024	0.38	13.06	13.78	36.32	12.39
06-08-2024	0.3B	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	33.84	31.57	18.81
13-08-2024	0.4	12.65	13.4	34.71	16.19
14-08-2024	0.39	12.74	12.85	33.07	13.05
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
17-06-2024	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	12.2	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	0.42	15.42	12.7	37.26	14.28
31-08-2024	0.41	15.42	12.97	37.28	13.63
Мак	0.5	15.4	14.6	284.6	18.8
Min	0.4	12.6	8.1	8.3	5.3
Avg	0.4	13.3	11.9	40.5	13.9

* On 04.08.2024 PM10 Analayser Maintenance

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GENERAL MANAGER R&D AND OC TAMILMADU NEWSPRINT AND PAPERS LIMITED (BOARD DM/SION) MONDIPATTI, K.PERIYAPATTI (PO), MANAPPARAI (TK.), TRICHY (DT)-621306.

	nfinadu Nev	-	-		
Date	AAQ Moni AAQMS-CO (mg/Nm ³)	itoring (Ma AAQMS- NO2 (µg/m ³)	AAQMS- PM2.5 (µg/m ³)	AAQMS- PM10 (µg/m ³)	AAQM5-50; (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
05-09-2024	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	42.65	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
Мак	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

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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.

		print and Pap		
Date	UNITIL_WEST_ GATE-	UNITIL_WEST_G ATE- PM2.5(ug/m3)	UNITI WEST	UNITH WEST GATE-
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	6.6	1.6
09-04-2024	3.76	15	30	1.58
10-04-2024	5.41	25	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	15.05	30.12	135
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	25.97	30.15	1.65
20-04-2024	1.25	15.08	30.17	1.53
21-04-2024	1.34	15.07	30.24	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
Мак	11.9	15.2	30.2	1.8
Min	1.3	0.0	0.0	1.3
Avig	4.1	11.5	23.4	1.6

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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.

Onli	ne AAQ Mor	nitoring (West	Gate) - May	2024
Date		UNITIL WEST_G ATE-		UNITA_WEST, GATE-
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	25.07	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	1.61
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

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GENERAL MANAGER RSD AND QC TAMILNADU NEWSPRINT AND PAPERS LIMITED (DOARD DIVISION) MONDIPATTI, K.PERMAPATTI (PO), MANAPPARAI (TK.), TRICHY (DT)-621306.

		print and Pap		
Date		NITOTING (West UNITIL_WEST_G ATE- PM2:5(ug/m3)		
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
09-05-2024	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
13-05-2024	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	168
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
21-05-2024	0.43	7.15	22.99	1.58
22-06-2024	1.15	5.81	20.25	1.64
23-06-2024	1.36	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	7.16	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

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GENERAL MANAGER R&D AND QC TAMILNADU NEWSPRINT AND PAPERS LIMITED (BOARD DMISION) MONDIPATTL K.PERIYAPATTI (PO), MANAPPARAI (TK.), TRICHY (DT)-021308.

Onl	ine AAQ Mo	nitoring (West	t Gate) - July':	2024
Date	UNITII_WEST_ GATE- NOx(ug/m3)	UNITI)_WEST_G ATE- PM2.5(ug/m3)	UNITH WEST G ATE- PML0(ug/m3)	UNITIL_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	29.43	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	6.65	18.99	3.04
31-07-2024	0.68	6.63	19.47	2.94
Мак	8.3	3.0	31.1	17.7
Min	0.0	3.8	12.0	1.4
Ave	1.2	5.9	21.2	3.6



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

Onli	ne AAO Mor	itoring (West	Gate) - Augus	st'2024
Date		UNITIL_WEST_G ATE- PM2.5(ug/m3)	UNITIL_WEST_G	
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	2.61
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	32.06	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	1.85	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	15	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.S	32.1	3.1
Min	0.7	4.0	12.9	2.8
Ave	2.3	6.5	20.1	2.9

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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.

Ta	amilnadu New	sprint and Pa	pers Limited L	JNIT II
Onli	ne AAQ Monit	oring (West G	ate) - Septem	ber'2024
Date	Ate- ATE- ATE- ATE- ATE- NOx(ug/m3) PM2.5(ug/m3) PM10(ug/m3)		UNITIL_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	096	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	2.82
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	21.79	6.45	27.71	2.77
Max	11.8	20.7	36.9	3.1
Min	0.3	4.4	16.7	2.4
Avg	1.7	7.3	24.9	2.7

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





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TEST REPORT

Test R	eport No & Date	CTL/CH/N-21494/2024-25 & 03.	05.2024					
Sampl	e Nutuber	N-21494/24-25						
Nане	are of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,							
Addre	Address Mondipatti Village, E.Periyapatti Post, Magapparai Taluk.							
		Trichy District - 621 306, Tamil Nadu.						
Sumpl	e Drawn by	Laboratory						
Sampl	e Name	Amhieux Air						
Sampl	e Description	Amhlent Air Quality						
Sampl	ing Location	BACKSIDE OF WORK SHOP (NEAR	COMPOUND WA	LL)				
Sampl	e Ditatwa an	24.04.2024 & 09 40 to 25.04 2024 8	0940					
Sample	e Received on	27.04 2024						
Sampling Plan & Procedure CTL/QSP/F-D9 & IS 5182 (Part V) and (Part XIV)								
Lample Quantity 1 No								
Equipr	went used for Sampling							
Analys	is Started on	27 04.2024	27 04.2024					
-	is Completed on	03 05.2024			_			
	emental Condition							
	e Humidity	57%						
	Temperature	35°C						
	frection .	ESE						
	r Condition	Clear Sky						
<u>Test Re</u> The abo	suma: ve sample tested as received, and re	suits are as follows:						
SLNO	PARAMETERS	METHODS	UNITS	RESULTS	NAAOST			
	PARTICULATE MATTER (PM++)	195102 Paix 24 - 2019						
			ng∕m°	26.7	60			
2	PARTICULATE MATTER (PM _{2B})	IS 5182 Part 23 - 2006 (R.2017)	÷⊯/m²	62.3	100			
3	SULPHUR DIGXIDF (SO,)	IS 5182 Part 2 - 2003 (R.2017)	µg/ro ³	116	80			

2	PARTICULATE MATTER (PMan)	IS 5182 Part 23 - 2006 (R.2017)	i-s(∕m)*	62.3	100
3	SULPHUR DIOXIDF (SO ₄)	IS 5182 Part 2 - 2003 (R-2017)	µg/m²	116	90
4	OXIDES OF NITROGEN (NO2)	15 5182 Part 6 - 2006 (R.2017)	µg/ю ¹	26.5	80
5	0204E (0,)	CTL/SOF/AIR/08 - 2016	Mg/m ³	38.2	180
. 6	LEAD (Fb)	15 5162 PART 22 - 2004 (R.2019)	μg∕/m ²	BOT(OF W1)	L
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg∕m*	BOL(OL:1-15)	4
\$	AMMONIA (NH.)	IS 5182 Part 25 - 2010	µg/m³	<u>25.7</u>	400
9	ARSENIC (AS)	CTL/SOP/AIR/06-2016	ng/m²	80u(0L 1.0)	6
10	NICKEL (Ni)	15 5182 Part 26 - 2020	ng/m²	ADL(DL:5.0)	24
11	BENZENE (C,H.)	IS \$182 PART 11 - 2006 (R.2017)	µ2/m ²	BDL(DL:1.0)	5
12	BENZO(a)HYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL-0.5)	<u>t</u>
23	HYDROGEN SOLPHIDE(H ₂ S)	I\$ 5162 PART 07 - 2021	μ <u>ε/</u> πι ²	BDL(DL:6.0)	-

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For Chennel Testing Laboratory Pvs Lod

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

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



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TEST REPORT

Test Report No & Date

CTL/CH/N-21494/2024-25 & 03.05.2024

SLNO	PARAMETERS	METHÓDS	UNITS	AESUL 75	NANQS'
14	MERCURY (H¥)	CTL/SOP/AIR/25-2016	hR'tau ₃	BDL(DL:001)	-

Jaconal Amblent Air Quality Standards prescribed by Ministry of Environment and Povests, Government of India vide Gazette Notification G.S.R. 826(B) dared 18. [1.2009.

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

***END OF REPORT

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For Chernal Testing Laboratory Pyt Ltd. leed Signationy

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G. MANIKANDAN

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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@chennaltestinglab.com





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TEST REPORT

	Report No & Date	CTL/CH/N-21495/2024-25 & 0	3.05.2024			
	le Number	N-21495/24-25				
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II.						
Addr	e55	Mondipatti Vilsage, K.Periyapatti P		luk,		
		Trichy District - 621 306, Tanul Na	udu.			
-	le Drawn by	Laboratory				
	le Name	Ambient Air				
	le Description	Amhlent Air Quality				
	ling Location	FACTORY CANTEEN BUILDING				
-	le Drawn an	24.04.2024 & #9.30 to 25.04.2024	& 09 30			
	le Received on Hog Plan & Procedure	27.04 2024 CTL/Q\$P/P-89 & IS 5182 (Part V).				
	le Quantity	- спудзиун-оя аль этжа (нап и). - 1 No	and (raft Xiv)			
	ment used for Sampling	RDS Sampler S No 2613-DTL-2019				
	sis Staried on	27 04 2024				
-	sis Completed on	03 05.2024				
	onniental Condition					
	ve Humidity	57%				
	nt Temperature	35°C				
-	Direction	ESE				
	er Condition	Clear Sky				
	<u>esuits:</u> ove sample tested as received, and prou	ins are as follows:				
SIL.NO		METHODS	UNITS	RESULTS	NAAQS*	
. 1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Pavi 24 - 2019	µg/m²	31.6	60	
z	PARTICULATE MATTER (PM ₁₀)	15 \$182 Part 23 - 2006 (R 2017)	µg/m ³	67.Z	100	
3	SULPHUR DIOXIDE (SD ₂)	IS \$182 Part 2 - 2001 (R.2017)	με/m ⁹	13.7	D 0	
•	UXIDES OF MITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	jųg/m ³	27.0	80	
<u>, s</u>	OZONE (Ot)	CTL/SOP/AIR/08 - 2016	µg/m³	40.0	180	
6	LEAD (PD)	15 5182 PART 22 - 2004 (R.2019)	µg/m²	BDL(DL:0.))	1	
7	CARBON MONOXIDE (CO)	CTL/S0P/AIR/23 - 2016	mg/m ³	00L(0L-1-LS)	+	
₿	AMMONIA (NH.)	IS 5102 Part 25 - 2018	µg/m ³	26.2	400	
9	ARSENIC (AF)	CTL/SOP/AIR/06 - 2016	ng/m²	BOL(OL:10)	-	
	(ACOENIC (AC)	C12/304/Alk/06-2010	n6/ m	Dec(ec:10)	6	
10	NICKEL (Ni)	IS 5182 Part 26 2020	ոգ/տ [*]	BDL(DL-S.0)	20	
-					-	

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For Chennal Testing Laboratory Pvt Ltd

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ъ utility is a signatory MANIKANDAN Head - Environment Division (CHEMICAL)

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75 5102 PART 07 - 2021

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



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TEST REPORT

Test Report No & Date

CTL/CH/N-21495/2024-25 & 03.05.2024

51.NO	PARANETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MÉROURY (Hg)	CTL/SOP/AIR/25-2016	μ α /m³	BDL(DL:001)	

Sational Ambient Air Quality Standards prescribed by Ministry of Brivironinent and Foresis, Government of India vide Gazette Notification G.S.R. 925(E) dated 18.3 (1.2009).

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

END OF REPORT

For Chennas Testing Laboratory Pv; Ltd.

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G. MANIKANDAN Head - Environment Division (CHEMICAL)

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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 : chennailesting@chennaileslunglab.com





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TEST REPORT

Test Report No & Date CTL/CR/N-21496/2024-25 & 03.05-2024							
Sampl	mple Number N-21496/24-25						
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT IL							
Addre	\$\$	Mondipatti Village, X Periyapatti Po	st. Manapparai Tai	luk_			
		Trichy District - 621 306, Tamil Nad	u .				
Sampl	e Drawn by	Laboratory					
Sampl	e Nalme	Ambient Air					
Sampl	e Description	Amblent Air Quality					
Sampli	ing Location	GUEST HOUSE					
Sample	e Drawn on	25.04 2024 & 15.30 to 26.04.2024 8	15.30				
Sampli	e Received on	27.04.2024					
Tampi	ing Plan & Procedure	CTL/QSP/F-&9 & IS \$182 (Part V) and (Part XIV) 1 No RD\$ Sampler S.No:2245-DTK-2017 27.04.2024 03.05.2024					
Jamph	е Qилингу						
Equip	nem used for Sampling						
Analys	is Started on						
Analys	is Completed on						
Enviró	rmental Condition						
	e Humidity	56%					
	n Temperature	34°C					
	(irection	SE					
	er Condition	Clear Sky					
<u>Test Re</u>		and a second setting a					
	ve sample tested as received, and re						
SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*		
1	PARTICULATE MATTER (PM ₂₅)	1\$\$182 Parr 24 - 2019	⊬⊈ ∕ m [*]	20.0	60		
Z	PARTICULATE MATTER (PM 🙀	IS 5192 Part 23 - 20%6 (R.2017)	µg,/m³	47.5	160		
3	SULPHUR DROXIDS (SO.)	IS \$192 Parts 2, 2001 (8,2017)		70	 		

Z	PARTICULATE MATTER (PMm)	IS 5192 Part 23 - 20%6 (R.2017)	pg/m ³	47.5	100
3	SULPHUR DIOXIDS (SO2)	IS 5182 Part 2 2001 (R.2017)	μ 6/m 3 ³	70	90
4	OXIDES OF NITROGEN (NO2)	IS 5162 Part 6 - 2006 (R.2017)	µg/m²	15.0	80
\$	0Z0N5(0 ₃)	CTL/SOP/AIR/08 - 2016	ng/m ³	24.1	160
Ĺ	ርደለው (የሁ)	IS 5182 PART 22 - 2004 (R.2019)	#2/m ⁷	800(00.001)	L
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m²	BOL(OL:1-15)	4
9	AMMONIA (NN ₁)	IS 5102 Part 25 2010	μ <u>κ</u> /m ³	Iss	400
9	ARŞEMIC (Aş)	CTL/50P/AIR/06 - 2016	ng/m²	BDL(DL/10)	<u>ن</u>
10	NICKEL (NI)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
u	BENZENE (C,H,)	IS 5182 PART 12 - 2006 (M.2017)	µ¢∕m²	BOL(DL:10)	5
12	BENZO(=)PYRENE	JS 5182 PART 12 - 2004 (R.2019)	ng/m ⁹	BDL(D1:05)	1
13	HYDROGEN SULPHIDE(III;S)	IS 5103 PART 07 - 2021	μκ/m ³	BDL(DL 6-0)	-

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CTL/CH/N-21496/2024-25 & 03.05.2024

SLNO	PARAMETERS	METHODS	UNIT5	RESULTS	NAAQS*
14	MEHCURY (Mg)	CTL/SOP/AIR/25-2010	ing'ua,	80L(UL:001)	-

Tational Amblent 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 Lanat (D.L - Detection Limit)

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	eport No & Date	CTL/CH/N-21497/2024-25&0	3.05.2024				
Sample Number N-21497/24-25							
	of the Customer	M/S. TAMIL NADU NEWSPRINT					
Addre	155	Mondipatti Village, K.Periyapatti P Talahu Disasian (201,205, Tamit Na		luk,			
Same	e Drawn hy	Tricky District - 621 306. Tamil Na Laboratory					
	e Name	Ambient Av					
	e Description	Ambrent Air Quality					
•	ing Location	THIRU, KANDASAMY HOUSE, PO COMPOUND WALL)	NGUDIPATTI (8 M	IETER ROAD JUNCTU	ON, OUTSIDE OF		
	e Drawn on	25 04.2024 & 16.00 to 26 04 2024	& 16 00				
	e Received on	27.04.2024					
•	ing Flan & Procedure	CTL/QSP/F-89 & IS 5182 (Part V)	and (Part XIV)				
	e Quantity ment used for Sampling	1 No RDS Sampler S.No:1985-DTD-201	4				
• •	ment used for Sampling sis Started on	27.04,2074	0				
	tis Completed on	03.05 2024					
	nmental Condition		•	•			
	e Humidity	56%					
	nt Temperature	34'C					
	Direction er Condition	SE Olear Sky					
Test Re		Cardel Service					
	ove sample tested as received, and res	wits are as follows:					
sl.no	PARAMÉTERS	METRODS	UNITS	RESULTS	NAAQS*		
Т	PARTICULATE MATTER (PM ₂ .)	IS \$ 182 Part 24 2019	PE/m ³	345	60		
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2096 (R 2017)	Hg/m [*]	56.0	100		
3	SULPHUR DIOXIDE (\$0)	ES \$182 Page 2 - 2001 (R.2017)	µg/m³	47	80		
1	OXIDES OF NITROGEN (NO ₂)	IS \$182 Part 5 - 2006 (R.2017)	μg/m³	20.0	60		
	020ME (01)	CTL/SOP/AIR/08 - 2016	μg/m³	275	180		
6	LGAD (РЬ)	IS \$192 PART 22 2004 (R.2019)	548/10 ³	BOL(DL:01)			
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	നള/ങ്	8DL(DL-1-15)	4		
8	AMMONIA (NH ₂)	IS \$162 Park 25 - 2018	µg∕m [°]	162	400		
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	eg/m²	BOL(OL:10)	. 6		
10	NICKEL (NI)	LS 5182 Part 26 - 2020	ng/m³	BDL(DL:5.0)	ZD-		
11	BENGENE (C ₆ II ₄)	19 5182 PART 11 - 2006 (R.2017)	µg/m [°]	BD1(DLLLØ)	5		
13	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m³	BDL(DL 05)	1		

13

HYDROGEN SULPHIDE(H₁S)

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BDL(DL:60)

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IS 5182 PART 07 - 2021

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SLNO	PARAMETERS	METHODS	UNITS	RESULTS	NA4QS*
14	MERCURY (HB)	СТЬ/50Р/АІК/25-2016	µg/៣ ³	ՏՈՐ(ՆԻ մայ)	-

Tational Ambient Am Quality Standards prescribed by Ministry of Environment and Forears, Government of India vide Gazette Notification G.S.R. 826(E) dated [8.] 1.2009.

BPL - Below Devection Limit(D.L - Devection Limit)

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Sampi Name Addre Sampi Sampi Sampi Sampi Sampi Sampi	e Drawn by e Name e Description ing Location e Drawn on e Received on ing Plan & Procedure e Quaniky	CTL/CH/N-21498/2024-25 & 03 N-21498/24-25 M/S. TAMIL NADU NEWSPRINT/ Mondipatti Village, K.Periyapatti P Trichy District - 621 306, Tamil Na Laboratory Amblent Air Amblent Air Quality 110KVA SUB-STATION (RIGHT S 24.04.2024 & 10.30 to 25.04.2024 27.04.2024 CTL/0SP/F-89 & IS 5182 (Part V) 1 No	AND PAPERS LIMP ost, Manapparai Tal idu. iIDE 10METERS AV & 10.30 and (Part XIV)	μk,			
	ment used for Sampling	RDS Sampler S No:2611-DTI-2019					
	is Started on	27.04 2024					
	tis Completed on mmental Condition	03.05 2024					
	e Humidity	57%					
	nt Temperature	35°C					
	lirection	828					
Weath	er Condition	Clear Sky					
<u>Test Re</u> The abo	<u>-suits:</u> We sample tested as received, and rest	uits are as follows:					
SLINO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS"		
1	PARTICULATE MATTER (PM _D)	155182 Part 24 - 2019	Hg/m ²	33.5	60		
2	PARTICULATE MATTER (PM	IS 5182 Part 23 - 2046 (R.2017)	μ χ/ π ³	71.0	100		
3	SULPHUR DIOXIDE (SD_)	IS 5182 Part 2 - 2001 (R.2017)	µg/m³	15.4	40-		
•	CXIDES OF NITROGEN (NO2)	ks 5182 Part 6 - 2006 (k.2017)	µg/m²	28.0	80		
<u>s</u>	020NE (01)	CTL/SOP/AIR/08 - 2016	µg/m ³	46.6	180		
6 LEAD (Pb)		IS 5182 PART 22 - 2004 (R.2019)	µg/M²	BDL(DL:01)	1		
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	ing/in ³	BDL(DL:1.15)	+		
θ	AMISIONIA (NHJ)	IS \$182 Part 25 - 2018	μς/m ³	342	400		

and from

ARSENIC (As)

BENZENE (C.H.)

BENZO(a)PYRENE

HYDROCEN SULPHIDE(H25)

NICKEL (N)

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BDL(DL:1.0)

BDL(DL:5.0)

BDL(DL:J Ø)

BDL(DL:05)

BDL(DL-6.0)

ne/m²

ng/m³

µg/m^{*}

ng/m³

es/m³

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CTL/SOP/AIR/06 - 2016

IS 5182 Part 26 - 2020

45 5182 PART 11 - 2006 (R.2017)

IS 5182 PART 12 - 2004 (R.2019)

IS 5182 PART 07 - 2021

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Test Report No & Date

CTL/CH/N-21498/2024-25 & 03-05-2024

SLNO	PARAMETERS	METHODS	UNITS	ABSULTS	NAAQS"
14	MERCURY (Hg)	CTLySOP/AIR/25-2016	µg∕m²	8DU(DL:001;	

Lational Amblent Air Quality Standards prescribed by Ministry of Environment and Forests, Government or Judia vide Gazette Hotification G.S.R. 826(E) dated 18.13.2009.

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

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G. MANIKANDAN Head - Environment Division (CHEMICAL)

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	eport No & Date	CTL/CH/N-21499/2024-25 & 03.05.2024						
-	e Number	N-21499/24-25						
Name	of the Customer							
Addre	55	Mondipatti Village, K.Periyapatti Po	st, Makapparai Tal	uk,				
		Trichy District - 621 306, Tamid Nad	lu.					
Sampl	e Drawn by	Laboratory						
Sampl	e Manue	Ambient Air						
Sampl	e Description	Amhient Air Quality						
Sampl	mpling Location WEST ENTRANCE GATE (RIGHT SIDE 50 METERS AWAY FROM THE GATE, 10 METE FROM COMPOUND WALL)							
Sample	e Drawn on	24.04.2024 & 10.20 to 25.04.2024 &	¥ 10.20					
Sampl	e Received on	27.04.2024						
-Smpli	ing Plan & Procedure	CTL/QSP/F-89 & 15 5182 (Part V) at	nd (Parr XIV)					
Sample	e Quantity	1 No						
Equips	nent used for Sampling	RDS Sampler S.No.2000-DTC-2016						
Analys	is Started on	27.04.2024						
Analys	is Completed on	03.05.2024						
Enviro	nmental Condition							
Relativ	e Humidity	57%6						
	a Temperature	95°C						
	linection	ESE						
	er Condition	Clear Sky						
<u>lest Re</u>	•							
('he abo	ve sample tested as received, and re	suirs are as follows						
SL.NO	PARANETERS	METRODS	UNITS	RESULTS	NAAQS*			
1	PARTICULATE MATTER (PM ₂₅)	IS 5182 Part 24 - 2019	μg/m ³	34.8	ġ0			
2	PARTICULATE MATLER (PM1+)	IS 5182 Part 23 - 2006 (R.2017)	µg/m²	74-2	100			
3	SULPHUR DIOXIDE (SQ ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	lej	<u>جارہ</u>			

	2	PARTICULATE MATTER (PM10)	IS 5182 Part 23 - 2006 (R.2017)	µg/m²	70.2	100
	3	SULPHUR DIOXIDE (SQ ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m²	Tel	ED.
	4	OXIDES OF NITROGEN (NO2)	15 5182 Part 6 - 2006 (R.2017)	µg/m²	0.66	60
ŝ,	Ĵs	OZONE (0 ₃)	CTL/SOP/AIR/08 - 2016	µg/m ⁹	48.5	180
	6	LEAD (Pb)	IS 5100 PART 22 2004 (R.2019)	µg∕m ³	BDL(DL:0.1)	1
	. 7	CARBON MONOXIDE (CO)	CTL/50P/AIR/23-2016	n e /m²	BDL(D=1.1\$)	4
	я	AMMONIA (NH _E)	IS 5182 Part 25 - 2018	µg∕m [‡]	30.6	400
	9	ARSENTC (As)	CTL/SOP/AI8/06 - 2016	റു./സി	8DL(0tc1.0)	6
	10	NICKEL (Ni)	1\$ 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20
	11	BENZENE (C,H.)	IS \$ (B2 PART 11 - 2006 (R-2017)	PE/IS ³	80L(DL:1.0)	\$
	12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R 2019)	₽¢/™ ³	BDL(DL:05)	1
	13	HYDROCEN SULPHIDE(H,S)	IS \$182 PART 07 - 2021	H8/m ³	BDL(DL-60)	

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Page 1 of 2

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SL NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQ5*
14	MERCURY (Hg)	CTL/50P/AIR/25-2016	►€/M ³	BDU(DL 001)	

ational Ambient All Quality Standards prescribed by Ministry of Environment and Forests. Government of India vide Gazette NotKication G.S.R. 826(E) dated 18.11.2009.

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	est Report No & Date CTL/CH/N-21500/2024-25 & 03.05.2024					
	e Number	N·21500/24-25				
	of the Customer	M/S. TAMIL NADU NEWSPRINT /				
Addre	Address Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,					
		Trichy District - 621 306, Tamii Na	đu.			
•	e Drawn by	Laboratory				
•	e Name	Amblem Air				
-	e Description	Ambient Air Quality				
Sampl	ing Location	MALAYA GOUNDER HOUSE, PER	IYAPPATI VIULAGI	8		
Sampl	¢ Drawn on	25.04.2024 & 09.10 to 26.04.2024	& 09.10			
Sempl	e Received on	27.04.2024				
Sampli	ing Plan & Procedure	CTL/QSP/F-89 & IS 5182 (Part V)	and (Parr XIV)			
រំណត្	e Quantity	1 No				
Equip	nent used for Sampling	RDS Sampler S.No:26J0-DTI-2019				
Analys	sis Started on	27.04 2024				
Analys	is Completed on	03.05 2024				
	nmental Condition					
	e Humidity	56%				
	nt Temperature	34°C				
	Direction	SE				
	et Condition	Qear Sky				
Test Re The abo	<u>isulus;</u> we sample tested as received, and re	suirs are as follows:				
\$L.MQ	PARAMETERS	NETHODS	UNITS	RESULTS	NAAQS'	
-						

	\$L.NQ	PARAMETERS	NETHODS	UNITS	RESULTS	NAAQS'
	l	PARTICULATE MATTER (PM _{2 %})	\$ 5182 Part 24 - 2019	pg/m ³	22.4	d0
	2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 · 2046 (R.2017)	µg,∕m²	\$5.0	100
	3	SULPHUR DIOXIDE (SO2)	LS 5182 Part 2 - 2001 (R.2017)	µg,∕m ⁷	9 .1	âû
	4	OXIDES OF NITROGEN (NO ₃)	IS 5182 Part 6 - 2006 (R.2017)	µg/m²	17.0	<u>ел</u>
Ś	5	020ME (0 ₁)	CTL/SOP/AIR/08+2016	² هه/هم	22.0	180
q	6	LEAD (Pb)	IS 5182 PART 22 2004 (8.2019)	μg/m ³	8DL(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 \$182 Part 25 - 2018	µ⊈/m ³	11.4	400
	9	ARSENIC (AS)	CTL/SOP/AIR/06 - 2016	ng/m²	8DL(DL:1.0)	¢ .
	10	NICKEL (Ni)	IŞ 5182 Part 26 - 2020	¢m∖¢a	80±(0±:\$-0)	20
	۱1	BENŽENE (C _o H _o)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	001(01.1.0)	s
Ľ	12	BENZO(8)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	lug/m ³	BDL(DL-0.5)	1
	18	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	H\$\m ³	BDL(DL:60)	

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SLINO	PARAMETERS	METHODS	UNITS	RESULTS	MARQS-
14	MERCURY (Hg)	ÇTL/SÖP/AIR/25-2016	µg∕m³	\$DL(DL:0.91)	

^{*}poonal Ambienc Air Quality Standards prescribed by Ministry of Environment and Forests, Government of Inclainde Gazetre Notification G.S.K. 826(E). dered 1011 2009.

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Test	leport No & Date	CIL/CH/N-21501/2024-25 & 03.0	05.2024				
Samp	le Number	N-21501/24-25					
Name	of the Customer	M/S. TAMIL NADU NEWSPRINT AF	ND PAPERS LIMI	ITED - UNIT (1,			
Addre	55	Mondipatti Village, K Periyapatti Pos	st. Manapperai Te	eluk,			
		Trichy District - 621 306. Tamil Nad	u.				
Sanıp	le Drawn by	Laboratory					
	le Name	Ambient Air					
-	le Description	Anablent Air Quality					
	ling Location	SHANMUGAM, PADHIBIPATTI					
	e Drawn on	25.04.2024 & 09.30 to 26.04.2024 &	20930				
	e Received on	27.04.2024					
	ing Plan & Procedure e Quantity	CTL/QSP/F-89 & 15 5182 (Part V) av	nd (Part XIV)				
	e quantity ment used for Sampling	1 No RDS Sampler S.Mrr2613-DTI-2019					
	sis Started on	27 04 2024					
	sis Completed on	03 05.2024					
í	nmental Condition						
		56%					
Rolati	e Humidity						
Ambie	nt Temperature	34°C					
Ambie Wind I	nt Temperature Direction	34°C SE					
Ambie Wind I Weath	nt Temperature Direction or Condition	34°C					
Ambie Wind I Weath Feit R	nt Temperature Direction or Condition esulu s	34°C SB Clear Sky					
Ambie Wind I Weath Feit R The ab	nt Temperature Direction er Condition esulta: ove sample tested at received, and rec	34°C SB Clear Sky	UNITS	RESULTS	MARQS*		
Ambie Wind I Weath Fear R The ab	nt Temperature Direction er Condition esult s: ove sample tested as received, and res	34°C SB Clear Sky sulls are as follows:	UNITS PR/In ³	RESULTS 23.0	MAAQS* 60		
Ambie Wind I Weath Test R The ab SL NO	nt Temperature Direction er Condition esults: ove sample tested as received, and res PARAMETERS	34°C SE Clear Sky sulls are as follows: <u>METHODS</u>					
Ambie Wind I Weath Test R The ab- SL NO 1	nt Temperature Direction or Condition esults: ove sample tested as received, and res PARAMETERS PARTICULATE MATTER (PM 23)	34°C SB Clear Sky sulls are as follows: <u>METHODS</u> 15 5 182 Part 24 - 2019	µg∕in³	23.0	60		
Ambre Wind I Weath Test R The ab- SL NO 1 2	nt Temperature Direction er Condition esculus: Die sample tested at received, and rec PARAMETERS PARTICULATE MATTER (PM 10) PARTICULATE MATTER (PM 10)	34°C SE Clear Sky <u>sulls are as follows:</u> <u>METHODS</u> 1S 5182 Part 24 - 2019 IS 5182 Part 23 - 2006 (R.2017)	μ8/m3	23.0	60 100		
Ambie Wind I Weath Test B SL NO 1 2 3 4 5	nt Temperature Direction er Condition esults: ove sample tested as received, and res PARAMETERS PARTICULATE MATTER (PM 10) SULPHUR DIOXIDE (SO ₂)	34°C SE Clear Sky <u>METHODS</u> 15 5182 Part 24 - 2019 IS 5182 Part 23 - 2006 (R.2017) IS 5182 Part 2 - 2001 (R 2017)	м8\usy h8\usy h8\usy	23.0 56.4 90	60 100 80		
Ambie Wind I Weath Test R The ab- SL NO 1 2 3 4	nt Temperature Direction er Condition esults: Die sample tested as received, and res PARAMETERS PARTICULATE MATTER (PM ₁₀) SULPHUR DIOXIDE (SO ₂) OXIDES OF NITROGEN (NO ₂)	34°C SE Clear Sky sulls are as follows: <u>METHODS</u> 155182 Part 24 - 2019 IS 5182 Part 23 - 2006 (R.2017) IS 5182 Part 2 - 2001 (P 2017) IS 5182 Part 5 - 2006 (R.2017)	нб\ш _у h6\ци _у h6\ци _у	23.0 56.4 90 16.7	60 100 80 80		
Ambie Wind I Weath Test R SL NO 1 2 3 4 5	nt Temperature Direction er Condition esults: Die sample tested as received, and rec PARAMETERS PARTICULATE MATTER (PM 10) PARTICULATE MATTER (PM 10) SULPHUR DIOXIDE (SO ₃) OXIDES OF NITROGEN (NO ₃) OZONE (O ₃)	34°C SE Clear Sky <u>METHODS</u> 15 5182 Part 24 - 2019 IS 5182 Part 23 - 2006 (R.2017) IS 5182 Part 2 - 2001 (P 2017) IS 5182 Part 5 - 2006 (P.2017) CTL/SOP/AIR/09 - 2016	۲۴,/۳۹ ³ ۲۴,/۳۹ ۲۴,/۳۹ ۲۴,/۳۹ ۲۴,/۳۹ ۲۴,/۳۹	23.0 56.4 90 16.7 24.5	60 100 80 80 180		
Ambie Wind I Weath Trest R The ab- SL_NO 1 2 3 4 5 6	nt Temperature Direction er Condition esults: ove sample tested as received, and res PARAMETERS PARTICULATE MATTER (PM 23) PARTICULATE MATTER (PM 23) PARTICULATE MATTER (PM 23) SULPHUR DIOXIDE (SO2) CONDES OF NITROGEN (NO2) CZONE (O3) LEAD (Pb)	34°C SE Clear Sky sults are as follows: METHODS IS 5182 Part 23 - 2006 (R.2017) IS 5182 Part 23 - 2006 (R.2017) IS 5182 Part 2 - 2001 (R 2017) IS 5182 Part 5 - 2006 (R.2017) IS 5182 Part 5 - 2006 (R.2017) IS 5182 Part 2 - 2004 (R 2017)	۲۵۲/m ³ ۲۵۲/m ³ ۲۵۲/m ³ ۲۵۲/m ³ ۲۵۲/m ³	23.0 56.4 90 16.7 24.5 BDL(DL:0.1)	60 100 80 80 180 1		
Ambie Wind I Weath The ab- SLNO 1 2 3 4 5 6 7	nt Temperature Direction er Condition escille: We sample tested as received, and res PARAMETERS PARTICULATE MATTER (PM 23) PARTICULATE MATTER (PM 23) PARTICULATE MATTER (PM 23) SULPHUR DIOXIDE (SO) CONDES OF NITROGEN (NO) CONDES OF NITROGEN (NO) CONDES OF NITROGEN (NO) CONDES OF NITROGEN (NO) CONDES OF NITROGEN (NO)	34°C SE Clear Sky sults are as follows: METHODS IS 5182 Part 24 - 2019 IS 5182 Part 23 - 2006 (R.2017) IS 5182 Part 2 - 2001 (R 2017) IS 5182 Part 5 - 2006 (R.2017) IS 5182 Part 5 - 2006 (R.2017) IS 5182 Part 5 - 2006 (R.2017) CTL/SOP/AIR/03 - 2016 IS 5182 PART 22 - 2004 (R 2019) CTL/SOP/AIR/23 - 2016	۲۴٫/m ³ ۲۴٫/m ³ ۲۴٫/m ³ ۲۴٫/m ³ ۲۴٫/m ³	23.0 56.4 90 16.7 24.5 BDL(DL:0.1) BDL(DL:1.15)	60 100 80 180 1 1 4		
Ambie Wind I Weath Test R The ab- SL_NO 1 2 3 4 5 6 7 8	nt Temperature Direction er Condition esults: Direction esults: Direction PARTICULATE MATTER (PM 2.5) PARTICULATE MATTER (PM 10) SULPHUR DIOXIDE (SO3) OXIDES OF NITROGEN (NO3) OZONE (O3) LEAD (Pb) CARBON MONOXIDE (CO) AMMONIA (NH3)	34°C SE Clear Sky sults are as follows: METHODS IS 5182 Part 24 - 2019 IS 5182 Part 23 - 2006 (R.2017) IS 5182 Part 2 - 2001 (P 2017) IS 5182 Part 6 - 2006 (R.2017) IS 5182 Part 6 - 2006 (R.2017) CTL/SOP/AIR/03 - 2016 IS 5182 PART 22 - 2004 (R 2019) CTL/SOP/AIR/23 - 2016 IS 5182 Part 25 - 2018	μg/m³ μg/m³ μg/m³ μg/m³ μg/m³ μg/m³ μg/m³ μg/m³ μg/m³	23.0 56.4 90 16.7 24.5 BDL(DL:01) BDL(DL:1.15) 12.6	60 100 80 180 180 1 4 400		

BENZENE (C₆H₆)

BEN2O(a)PYRENE

HVDROGEN SULPHIDE(H,S)

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For Chennel Testing Laboratory Pvt 21d

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BDU(DL:10)

BDL(DL:0.5)

BDL(DL:6.0)

Так Алуан Анданан ал ама котанал, сајан кома (ал ану-мобион учурак.

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15 \$182 FART 11 - 2006 (R.2017)

IS \$182 PART 12 - 2004 (R.2019)

IS 5182 PART 07 - 2021

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TEST REPORT

Test Report No & Date

CTL/CH/N-21501/2024-25 & 03.05.2024

SILNO	PARANETERS	METHODS	UNITS	RESULTS	NAAQS*
	MBROURY (IIB)	CTL/SOP/AIR/25-2016	⊫g/m³	BDU(DL-0/01)	

ational Ambient Air Quality Standards prescribed by Ministry of Environment and Forests. Government or India vide Gazetre Notification G.S.R. 826(E). dated 18-11-2009.

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

*** END OF REPORT***

For Chennal Testing Laboratory Pvt 1.td

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TEST REPORT

Test Report No & Date		CTL/CH/N·21502/2024-25 & 03.	05.2024				
Sample Nomber		N-21502/24-25					
Name of the Customer		M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT 11.					
Addre	55	Mondipatti Village, K.Periyapatti Po	st. Manapparai Tal	uk.			
		Trichy District - 621 306. Tamil Nad	ч				
Sampl	e Drawn by	Laboratory					
Sampl	e Name	Amblent Air					
Sampl	e Description	Ambient Air Quality					
	ing Location	ARUMUGAM GOUNDER, PODUVAI	RPATTI				
•	e Drawn o≡	25 04.2024 & 09.50 to 26.04.2024 &	4 0 9 5 0				
•	e Received on	27.04.2024					
	ing Plan & Procedure	CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV) 1 No					
•	e Quantity						
	ment used for Sampling	RDS Sampler S.No:224S-DTK-2017					
-	is Started on	27.04 2024 03.05 2024					
	ris Completed on						
	nmental Condition						
	e Humaluty	56% 34°C SE					
	nt Temperature						
)irection er Condition						
Test Re		Clear Sky					
	we sample tested as received, and re	saits are as follows:					
SLNO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*		
1	PARTICULATE MATTER (PM ₂₃)	IS 5182 Part 24 - 2019	HE/M ³	21.7	60		
2	PARTICULATE MATTER (PM ₁₀)	15 5182 Part 23 - 2006 (R.2017)	μ g /m ¹	50.0	100		
â	SULPHUR DIOXIDE (SO ₇)	IS 5182 Part 2 - 2001 (R 2017)	µg/თ ¹	67	90		
•	OXIDES OF NITROGEN (MU)	IS \$182 Part 6 - 2006 (R 2017)	µg,∕m³	13.0	80		

CTL/SOP/AIR/OB - 2016

15 5182 PART 22 - 2004 (R.2019)

CTL/\$0P/AIR/Z3 - 2016

IS 5182 Part 25 - 2018

CTL/SOP/AIR/06 - 2016

15 5187 Part 26 - 2020

IS 5182 PART 11 - 2006 (R 2017)

IS 5182 PART 12 - 2004 (R.2019]

15 5102 PART 07 - 2021

pg/m²

μg/ps³

mg/m³

pe/in³

ոք/ա՞

ng/m^a

με/π,

na/m°

 $\mu_{\rm K}/m^2$

HYDROGEN SULPHIDB(11,S)

OZONE [O]

LEAD (Pb)

AMMONIA (NH₂)

ARSENIC (As)

BENZENE (C_oH₄)

BEM20(a)PYRENE

NICKEL (N)

CARBON MONOXIDE (CO)

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BOL(DL:01)

BDL(DL-1.15)

10.0

BDL(DL:10)

ROL(DL-50)

804(0L.1.0)

BDL(DL-05)

BDL(DL:60)

Sine Angoort work not be introdice namegal conference and for one materials perpose The Report is experient way for spla way of the polytice spectra for discrimination devices the

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TEST REPORT

Test Report No & Date

CTL/CH/N-21502/2024-25 & 03.05.2024

SLNO	PARAMETERS	METHODS	UNITS	RESULTS	PRAR
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	μ ι χ/νιι ³	BDL(DL:001)	-

Jational Amblent Air Quality Standards prescribed by Ministry of Environment and Porests. Government of India vide Gazetto Hot/lication G.S.R. 826(E) dated 16.11.2009.

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

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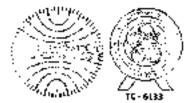
For Chennel Testing Laboratory Pvt Ltd

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TEST REPORT

Test Report No & Date		CTL/CH/N-22628/2024-25 & 30	05.2024					
Samp	le Number	N-22628/24-25						
Name	of the Customer	M/S. TAMIL MADU NEWSPRINT AND PAPERS LIMITED - UNIT II,						
Addre	228	Mondipatti Village, K.Pernyapath Po	xst. Manapparai Ta	duk.				
		Trichy District - 621 306, Tamal Nat	dau.					
-	le Drawn by	Lahoratory						
-	le Name	Ambient Air						
-	le Description	Amblent Alr Quality Monitoring						
-	ling Location	BACKSIDE OF WORK SHOP (NEAL		iu.j				
-	le Drawn on le Received on	20.05.2024 & 10.00 to 21.05.2024 # 24.05 2024	S LINNO					
-	ling Plan & Procedure	= 24.05 2024 CT1/Q5P/F-89 & 15 5182 (₽art V) a	and (Paer XIV)					
	le Quantity	1 No						
	ment used for Sampling	BDS Sampler S.No:2610-DFI-2019						
	sis Started on	24 05 2024						
-	sis Completed on	30 05.2024						
	ognesital Condition							
	ve Humidity	6986 30°C WNW Partly Cloudy						
	ent Temperature Direction							
	er Condition							
Test Re	esults							
The ab	ove sample tested as received, and res	ults are as follows:		-	-			
51.NO	PARAMETERS	METHOD5	UNITS	RESULTS	NAAQS"			
1	PARTICULATE MATTER (PH ₂₃)	15 5182 Peril 24 - 2019	н¥/м,	24.0	60			
2	PARTICULATE MATTER (PM ₁₄)	t\$ 5182 Part 23 - 2006 (R 2017)	MB/m ³	56.9	100			
3	SULPHUR DIOXIDE (SO ₁)	IS \$182 Part 2 - 2001 (R.2017)	μg/uv ³	9.8	, 840			
4	OXIDES OF NITROGEN (NO2)	15 5182 Part 6 - 2006 (R.2017)	kg/ 04'	21.5	84			
5	020NE (01)	CTL/SUP/AIR/08-2016	rg/m ³	30.0	100			
6	ርር ሊው (ቦኬ)	IS 5182 PART 22 - 2004 (R:2019)	pg/m²	60L(0L.0.1)	I			
		CTL/SOP/AIR/23 - 2016	nig/m. ¹	BDL(DL:1.15)	4			
7	CARBON MONOXIDE (CÔ)	CIEFSOF Haltes - 2010			+			
7 \$	CARBON MONOMIDE (CO) AMMONIA (NH ₁)	18 5182 Part 25 - 2018	ور سروبر	19.5	400			
1	AMMONIA (NH1)	15 5182 Part 25 - 2018	⁶ m/gu	19.5	400			

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BENZENE (C,)I,)

DEMZO(a)/VRENE

HYDROGEN \$11,PM/DE(H₂S)

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BDL(DL 1.6)

BOL(OL 0.5)

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PE/M¹

ng/m²

µç/m³

IS 5102 PART 11 - 2006 (P 2017)

IS \$182 PART 12 - 2004 (R 2019)

15 5192 PART 07 - 2021

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Test Report No & Date

TEST REPORT

CTL/CN/N-22628/2024-25 & 30.05.2024

51_NQ	PARAMETERS	METHOUS	UNITS	RESULTS	N4462.
14	MERCLIRY (Hg)	CTL/SOP/AJR/25-2016	hë'uy]	R(H.(DL:0.01)	

*National Amblent Air Quality Standards prescribed by Ministry of Environment and Poresis, Covernment of tudia vide Gapetie Notification G S.R. 826(E) dated 18 (1.2009).

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

END OF REPORT

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For Chermal Testing Laboratory Pvt Ltd

G. NAMKANDAN Head - Environment Division (CHEMICAL)

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TEST REPORT

Test R	est Report No & Date CTL/CH/N-22629/2024-25 & 30.05-2024					
Sampl	e Number	N-22629/24-25				
Name	of the Castomer	M/S. TAMIL NADU NEWSPRINT A	ND PAPERS LAMI	CED - UNIT II,		
Addre	\$\$	Mondipatti Village, K.Periyapatti Po	st, Manappara) Tal	uk		
		Trichy District - 621 306, Tamil Nad		-		
Samp)	e Drawn by	Laboratory				
Sampl	e Name	Ambient Air				
Sampl	e Description	Ambient Alc Quality Monitoring				
Sampl	ing Location	PACTORY CANTEEN BUILDING				
Sampl	e Drawn on	20.05 2024 & 09 50 to 21.05.2024 &	09.50			
Sampl	e Received on	24.05.2024				
Şampl	ing Plan & Procedure	CTL/QSP/F-89 & IS 5182 (Part V) ar	nd (Part XIV)			
Sampl	e Quantity	1 No	-			
Equipa	nent used for Sampling	RDS Sampler S.No:2613-DTI-2019				
Aqalys	is Started on	24 05.2024				
Analys	is Completed on	30.05.2024				
Enviro	remental Condition					
	e Humidity	69%				
	nt T'emperature	30°C				
	hrection	WINK'				
Weathe	er Condicion	Parity Cloucy				
Cest Re The abo	Filts: Ve sample tested as received, and res	auts are as follows:				
SLINO	PARANETERS	METHODS	UNITS	RESULTS	NAAQS*	
1	PARTICILATE MATTER (PM33)	IS 5182 Part 24 - 2019	μ g ∕¥n ³	20.6	60	
	DAD THOULS AND BAATTON LINES -)	IS CLOBED AND REPORT				

1	PARTICILATE MATTER (PM13)	IS \$182 Part 24 - 2019	P ⊈ /¥n ³	20.6	60
2	PARTICULATE MATTER (PRE)	IS 5162 Part 23 - 2006 (R.2017)	µg/wn*	, 50.0	100
3	SULPHUR DIOXIDE (SD ₁)	IS 5182 Part 2 - 2003 (R 2017)	ug/m³	8.5	60
4	OXIDES OF NITROCEN (KO2)	JS 5102 Part 6 2006 (R.2017)	₽∰/DA ^L	192	6 0
5	OZONE (O ₁)	CTL/SOP/AIR/08 - 2016	eg/m²	235	190
6	LEAD (Ph)	15 5192 PART 22 - 2004 (R.2019)	н <u>к</u> /т ³	80L(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/50P/AIR/23 - 2016	ng/m²	BDL(DL/J 15)	4
\$	AMMONIA (NH ₃)	15 5182 Part 25 - 2018	µg∕m²	15.7	400
•	ARSUNIC (As)	CTL/SOP/AI0/06 - 2016	ng/m [°]	BDL(DL:L0)	6
10	NHCKEL (ND)	LS 5 (82 Part 26 - 2020	ng/m²	BOL(DL:5.0]	20
11	BENZENE (42,H4)	IS \$182 PART 11 - 2006 (R.2017)	ng/m ³	BDL(DL 1-0)	5
12	BEN2O(5)PYRENE	IS 5182 PART 12+2004 (R.2019)	ng/ns ³	BDL(71/05)	1
19	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m²	BDL(DL:6.0)	





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Test Report No & Date

TEST REPORT

CTL/CH/N-22629/2024-25 & 30.05.2024

SLNO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
	MERCURY (Hg)	CTL/SOP/AIR/25-2016	pg/m ³	BDLIDLO.01)	

*National Anelisent Air Quality Standards press; Heed by Ministry of Environment and Porests, Government or India vide Gazarte Norffication 6.5.4.826(E) doced 18.3 3.2009.

RDL - Relow Detection Littit(D.L - Detection Limit)

***END OF REPORT

For Chennal Testing Laboratory Pvi Ltd ised Signationy

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G. MANIKANDAN Head - Environment Division (CHEMICAL)

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TEST REPORT

Test R	leport No & Date	CTL/Cli/N-22630/2024-25 & 30	.05.2024			
Sample Number N-22630/24-25						
Name	of the Customer	M/S. TAMIL NADU NEWSPRINT A	ND PAPERS LIMI	TED - UNIFU,		
Addre	55	Mondipatti Village, K Periyapatti Pe	ist, Manapparai Ta	dak,		
		Trichy District • 621 306, Tamil Nac	du.			
	e Drawn by	Laboratory				
-	e Name	Ambient Air				
-	e Description	Ambient Air Quality Monitoring				
-	Ing Location	GUEST HOUSE				
	e Drawn on e Received on	21.05.2024 & 17.10 to 22.05 2024 8	6 17.10			
	ing Plan & Procedure	24.05.2024 CTL/QSP/F-89 & IS 5182 (Part V) a	ad (Past VIV)			
	e Quantity	I No	nu (ran xiv)			
-	ment used for Sampling	RDS Sampler S.No:2245-DTK-2017				
	sis Started on	24.05.2024				
	sis Completed on	30.05.2024				
Emvito	amental Condition					
	e Humidity	66%				
	nt Teroperature	30°C				
Wind Direction WNW						
Weathe	er Condition	Nami's Cloudy Pami's Cloudy				
Afeathe Feat Re	er Condition	Parily Cloudy				
Weathe Test Re The abo	er Condition salts	Parily Cloudy	UNITS	RESULTS	MAAUST	
Weathe Feet Re The abo	er Condition sailts. we sample tested as received, and rese	Parity Cloudy dis are as follows:	UNITS pg/m ³	RESULTS 16.6	MAAQS* 60	
Afeathe Test Re The abo SLINO	er Condition solts, we sample tested as received, and rese PARAMETERS	Parity Cloudy ults are as follows: METHODS			-	
Afgathe Fest Re The abo SU-NO 1	er Condition soits, we sample tested as received, and res PARAMETERS PARTICULATE MATTER (PM _{2.5})	Parity Cloudy ults are as follows: METHODS 15 5182 Part 24 - 2019	μ g/ π ³	16.6	60	
Afeathe Fest Re The abo SL-NO 1 2	er Condition saits, we sample tested as received, and res PARAMETERS PARTICULATE MATTER (PM ₂₅) PARTICULATE MATTER (PM ₁₀)	Parily Cloudy Alts are as follows: METHODS IS 5182 Part 24 - 2019 IS 5182 Part 23 - 2006 (R.2017)	ug/m ³ ug/m ³	16.8 +4.5	60 100	
Weather Test Re The abo SL_NO 1 2 3	er Condition saits. we sample tested as received, and rese PARAMETERS PARTICULATE MATTER (PM ₂₃) PARTICULATE MATTER (PM ₁₀) SULPHUR DIOXIDE (SO ₂)	Parily Cloudy elits are as follows: METHODS 35 5182 Part 24 - 2019 15 5182 Part 23 - 2006 (R.2017) IS 5182 Part 2 - 2001 (R.2017)	μg/m ³ μg/m ³ μg/m ²	16.8 +41.5 	60 100 80	
Weather Test Re The abo SL-NO 1 2 3 4	er Condition Solts. We sample tested as received, and rese PARAMETERS PARTICULATE MATTER (PM ₂₅) PARTICULATE MATTER (PM ₁₆) SULPHUR DIOXIDE (SO ₂) OXIDES OF NITROGEN (MO ₁)	Parily Cloudy Alts are as follows: METHODS 15 5182 Part 24 - 2019 15 5182 Part 23 - 2006 (R.2017) IS 5182 Part 2 - 2001 (R.2017) IS 5182 Part 2 - 2006 (R.2017)	μg/m ³ μg/m ³ μg/m ³ μg/m ³	16.8 ++1.5 	60 100 80 80	
Weather The abo SUNO 1 2 3 4 5	er Condition saits. ME sample tested as received, and rese PARAMETERS PARTICULATE MATTER (PM ₂₅) PARTICULATE MATTER (PM ₁₆) SULPHUR DIOXIDE (SO ₂) OXIDES OF NITROGEN (NO ₁) OZONE (O ₁)	Parily Cloudy Alts are as follows: METHODS IS 5182 Part 24 - 2019 IS 5182 Part 23 - 2006 (R.2017) IS 5182 Part 2 - 2001 (R.2017) IS 5182 Part 6 - 2006 (R.2017) CTL/SOP/AIR/08 - 2016	μg/m ³ μg/m ³ μg/m ² μg/m ²	16.8 44.5 5.8 11.6 17.5	60 100 80 80 80	
Weather Test Re The abo SL-NO 1 2 3 4 5 6 6	er Condition saits. we sample tested as received, and rese PARMETERS PARTICULATE MATTER (PM ₂₃) PARTICULATE MATTER (PM ₁₀) SULPHUR DIOXIDE (SO ₂) OXIDES OF SUTROGEN (MO ₁) OZOME (O ₁) LEAD (PD)	Parily Cloudy Alts are as follows: METHODS IS 5182 Part 24 - 2019 IS 5182 Part 23 - 2006 (R.2017) IS 5182 Part 2 - 2005 (R.2017) IS 5182 Part 6 - 2006 (R.2017) CTL/SOP/AIR/08 - 2016 IS 5182 PART 22 - 2004 (R.2019)	μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³	16.8 44.5 5.8 11.6 17.5 6DL(DL:0.1)	60 100 80 80 180	
Weather Test Re The abo SL-NO 1 2 3 4 5 6 7	er Condition solts. We sample tested as received, and rest PARAMETERS PARTICULATE MATTER (PM ₂₅) PARTICULATE MATTER (PM ₁₆) SULPHUR DIOXIDE (SO ₂) OXIDES OF NITROGEN (MO ₂) OZOME (O ₂) LEAD (PD) CARBON MONOXIDE (CO)	Parily Cloudy Alts are as follows: METHODS IS 5182 Part 24 - 2019 IS 5182 Part 23 - 2006 (R.2017) IS 5182 Part 2 - 2004 (R.2017) IS 5182 Part 6 - 2006 (R.2017) IS 5182 Part 6 - 2006 (R.2017) IS 5182 Part 22 - 2004 (R.2019) CTL/SOP/AIR/08 - 2016	μg/m ³ μg/m ³ μg/m ² μg/m ³ μg/m ³ μg/m ³ μg/m ³	16.8 44.5 5.8 11.6 17.5 8DL(DL:0.1) 8DL(DL:1.15)	60 100 80 90 160 1 4	
Areather rest Re rhe abo SLNO 1 2 3 4 5 6 7 8 0	er Condition Sails. ME sample tested as received, and rese PARAMETERS PARTICULATE MATTER (PM ₂₃) PARTICULATE MATTER (PM ₁₀) SULPHUR DIOXIDE (SD ₂) OXIDES OF NITROGEN (MO ₃) OZONE (O ₃) LEAD (PD) CARBON MONOXIDE (CO) AMMONIA (NH ₃)	Parily Cloudy Alts are as follows: METHODS IS 5182 Part 24 - 2019 IS 5182 Part 23 - 2006 (R.2017) IS 5182 Part 2 - 2004 (R.2017) IS 5182 Part 6 - 2006 (R.2017) CTL/SOP/AIR/08 - 2016 IS 5182 PART 22 - 2016 IS 5182 Part 25 - 2018	μg/m ³ μg/m ³ μg/m ² μg/m ³ μg/m ³ μg/m ³ μg/m ³	16.8 44.5 5.8 11.6 17.5 8DL(DL:0.1) 8DL(DL:1.15) 10.2	60 100 80 80 80 160 1 4 4	
Areather Freet Re The abo SL_NO 1 2 3 4 5 6 7 8 6 7 8 9 10	er Condition Salts. We sample tested as received, and rese PARAMETERS PARTICULATE MATTER (PM _{2.5}) PARTICULATE MATTER (PM ₁₀) SULPHUR DIOXIDE (SO ₂) OXIDES OF NITROGEN (NO ₃) OZONE (O ₃) LEAD (PD) CARBON MONOXIDE (CO) AMMONIA (NH ₃) ARSENIC (As)	Parily Cloudy Alts are as follows: METHODS IS 5182 Part 24 - 2019 IS 5182 Part 23 - 2006 (R.2017) IS 5182 Part 2 - 2006 (R.2017) IS 5182 Part 2 - 2006 (R.2017) IS 5182 Part 2 - 2006 (R.2017) CTL/SOP/AIR/08 - 2016 IS 5182 Part 22 - 2016 IS 5182 Part 25 - 2018 CTL/SOP/AIR/06 - 2016	μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³	16.8 44.5 5.8 11.6 17.5 80L(DL:0.1) 80L(DL:1.15) 10.2 80L(DL:1.0)	60 100 80 80 80 180 1 4 4 400 6	
Aveather rest Re rhe abo SL_NO 1 2 3 4 5 6 7 8 9 10 11 11	er Condition saits. We sample tested as received, and rese PARTICULATE MATTER (PM _{2.5}) PARTICULATE MATTER (PM ₁₀) SULPHUR DIOXIDE (SO ₂) OXIDES OF NITROGEN (NO ₃) OZONE (O ₃) LEAD (PD) CARBON MONOXIDE (CO) AMMONIA (NH ₃) ARSENIC (As) NICKEL (NI)	Parily Cloudy Alts are as follows: METHODS IS 5182 Part 24 - 2019 IS 5182 Part 23 - 2006 (R.2017) IS 5182 Part 2 - 2004 (R.2017) IS 5182 Part 6 - 2006 (R.2017) IS 5182 Part 6 - 2006 (R.2017) CTL/SOP/AIR/08 - 2016 IS 5182 Part 22 - 2004 (R.2019) CTL/SOP/AIR/23 - 2016 IS 5182 Part 25 - 2018 CTL/SOP/AIR/06 - 2016 IS 5182 Part 26 - 2020	μg/m³ μg/m³	16.8 44.5 5.8 11.6 17.5 8DL(DL:0,1) 8DL(DL:1.15) 10.2 8DL(DL:1.0) 8DL(DL:5.0)	60 100 80 90 180 1 4 4 400 6 20	

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For Chennas Testing Laboratory Pvt Ltd

vised Signatory Page 1 of 2 ANIKANDAN Ph Head - Environment Division (CHEMICAL)

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A - Super 19, TVK. Industrial Estate, Guindy, Chennal - 600 032, Tamil Nadu - India

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TEST REPORT

 Test Report No & Date
 CTL/CH/N-22630/2024-25 & 30.05.2024

 SL NO
 PARAMETERS
 METHODS
 UNITS
 RESULTS
 NAAQS*

 14
 MERCURY (Hg)
 CTL/SOP/AI8/25-2016
 #g/m³
 870.(01.01)
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*National Amblent Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gasotte Nativication G S.R. 826(E) dated 18 11 2009.

80L - Below Detection Limit(D.L - Detection Limit)

END OP REPORT

For Chennal Testing Laboratory Pet Ltd

rised Signatory G. MANIKANDAN

Page 2-72

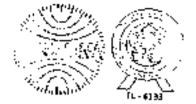
G. MANIKANDAN Head - Environment Division (CHEMICAL)

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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	Repuit No & Date	CTL/CH/N-22631/2024-25 & 30	.05.2024		
Samp	le Number	N-22631/24-25			
Name	of the Customer	M/S. TAMIL NADU NEWSPRINT A	ND PAPERS LIM	ITED - UNIT II,	
Addre	=\$\$	Mondipatti Village, K.Penyapatti Pe	ost, Manapparai Ta	aluk,	
		Trichy District - 621 306. Tamil Nav	du.		
	le Drawn by	Laboratory			
•	le Name	Ambient Air			
Sampi	le Description	Ambient Air Quality Monitoring			
-	ling Location	THIRU, KANDASAMY NOUSE, PO/ COMPOUND WALL)		METER ROAD JUNCTIO	N, OUTSIDE OP
-	le Drawn on	19.05.2024 & 10.40 to 20.05.2024 \$	A 10.40		
-	le Received on	24.05.2024			
	ling Plan & Procedure	CTL/QSP/F-89 & IS 5182 (Part V) a	nd (Part XIV)		
	le Quantity ment used for Sampling	1 No RDS Sampler S.No: 1985 -DTD-2016			
	sis Started on	24.05.2024	,		
	sis Completed on	30.05.2024			
	onmental Condition		•••••	•••••	
	/e Humidity	66%			
	_	-			
	nt Température	31°C			
Wind (Derection	WNW			
Wind (Weath	Direction er Condition				
Wind (Weath Fest Re	Direction er Condition	WNW Partly Gloudy			
Wind (Weath Fest Re The sta	Direction er Condition eswins: nvo sample tested as received, and res	WNW Partly Gloudy	UNITS	RESULTS	NAAQS'
Wind (Weath Fest Re The sta	Direction er Condition e <u>suars:</u> National tested as received, and res	WNW Partly Cloudy alts are as follows:	UNITS PR/m ³	RESULTS 18-6	NAAQS* 60
Wind (Weath Fest Re The sta SLNO	Direction er Condition esuins: nuo campla testad as received, and res PARAMETERS	WNW Partly Cloudy alts are as follows: METHODS			
Wind (Weath Test Ro The ab- SLNO 1	Direction er Condition ssuirs: hvo cample tested as received, and res PARAMETER5 PARTICULATE MATTER (PN ₂₅)	WNW Partly Cloudy alts are as follows: METHODS IS \$182 Part 24 - 2019	μ g/m³	18-6	60
Wind (Weath Test Re The ster SLNO 1 2	Direction er Condition esuins: NVV kample tested as received, and res PARAMETERS PARTICULATE MATTER (PM ₁₀)	WNW Partly Cloudy alts are as follows: METHODS IS 5182 Part 24 - 2019 IS 5182 Part 23 - 2006 (fr 2017)	μg/m³ μg/m³	18-6 46-5	60 100
Wind (Weath Fost Rs The sta SLNO 1 2 3	Direction er Condition essins: www.campla.testad.as.received.and.res PARTICULATE MATTER (PN _{2.5}) PARTICULATE MATTER (PM ₁₀) SULPHUR DIOXIDE (SO ₂)	WNW Partly Cloudy METHODS IS 5182 Part 24 - 2019 IS 5182 Part 23 - 2006 (fr 2017) IS 5182 Part 2 - 2001 (R.2017)	μg/m ³ μg/m ³	18-6 46-5 6-3	60 100 80
Wind (Weath) Test Riv SLNO 1 2 3 4	Direction er Condition esuits: NVO Cample tested as received, and res PARMETERS PARTICULATE MATTER (PM ₁₀) PARTICULATE MATTER (PM ₁₀) SALPHUR DIOXIDE (SO ₂) OXIDES OF NITROGEN (NO ₇)	WNW Partly Cloudy METHODS //S 5182 Part 24 - 2019 //S 5182 Part 23 - 2006 (fr 2017) //S 5182 Part 2 - 2001 (R.2017) //S 5182 Part 6 - 2006 (R 2017)	μg/m ³ hg/m ³ hg/m ³	18.6 46.5 6.3 16.5	60 100 80 90
Wind (Weath Test Rs SLNO 1 2 3 4 5	Direction er Condition esuins: PARAMETERS PARTICULATE MATTER (PN _{2.5}) PARTICULATE MATTER (PM ₁₀) SULPHUR DIOXIDE (SO ₂) OXIDES OF NITROGEN (NO ₇) OZONE (O ₅)	WNW Partly Cloudy METHODS ////////////////////////////////////	μg/m ³ μg/m ³ μg/m ³ μg/m ³	18-6 46-5 6-3 16-5 15-8	60 100 80 90 100
Wind (Weath Test Rs SLNO 1 2 3 4 5 6 7	Direction er Condition saules: hvo cample tested as received, and res PARAMETER5 PARTICULATE MATTER (PN ₂₅) PARTICULATE MATTER (PN ₁₀) SULPHUR DIOXIDE (SO ₂) OXIDES OF NITROGEN (NO ₇) OZONE (O ₃) LEAD (Pb)	WNW Partly Cloudy METHODS ////////////////////////////////////	μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³	18-6 46-5 6-3 16-5 13-8 BDL(DL:0.1)	60 100 80 60 100
Wind (Weath Test Rs The she SLNO 1 2 3 4 5 6 7 8	Direction er Condition esuins: PARAMETERS PARTICULATE MATTER (PM ₂₃) PARTICULATE MATTER (PM ₁₀) SULPHUR DIOXIDE (SO ₂) OXIDES OF NITROGEN (NO ₇) OZONE (O ₃) LEAD (Pb) CARBOH MONOXIDE (CO)	WNW Partly Cloudy METHODS IS \$182 Part 24 - 2019 IS \$182 Part 23 - 2006 (fr 2017) IS \$182 Part 2 - 2001 (R.2017) IS \$182 Part 6 - 2006 (R 2017) CTL/SOP/AIR/08 - 2016 IS \$182 PART 22 - 2004 (R.2019) CTL/SOP/AIR/23 - 2016	μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³	18-6 46-5 6-3 16-5 13-8 BDL(DL:0.1) BDL(DL:0.1)	60 100 80 90 100 1
Wind (Weath Test Rs The she SLNO 1 2 3 4 5 6 7 8	Direction er Condition esuins: NVV cample tested as received, and res PARAMETERS PARTICULATE MATTER (PM ₁₀) PARTICULATE MATTER (PM ₁₀) SULPHUR DIOXIDE (SO ₂) OXIDES OF NITROGEN (NO ₇) OZONE (O ₃) LEAD (Pb) CARBON MONOXIDE (CO) AMMONIA (NH ₂)	WNW Partly Cloudy METHODS NS 5182 Part 24 - 2019 IS 5182 Part 23 - 2006 (fr 2017) IS 5182 Part 23 - 2006 (fr 2017) IS 5182 Part 6 - 2006 (R 2017) CTL/SOP/AIR/08 - 2016 IS 5182 Part 22 - 2004 (R:2019) CTL/SOP/AIR/23 2016 IS 5182 Part 25 - 2018	μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³	18-6 46-5 6-3 16-5 13-8 BDL(DL:0.1) BDL(DL:0.1) BDL(DL-1-15) 9.7	60 100 80 90 100 1 4 400
Wind (Weath Test Re SLNO 1 2 3 4 5 6 7 7 8 9	Direction er Condition esuits: https://www.campla.testad.ac.reseived.and.res PARAMETERS PARTICULATE MATTER (PM ₁₀) PARTICULATE MATTER (PM ₁₀) SULPHUR DIOXIDE (PM ₁₀) SULPHUR DIOXIDE (SO ₂) OXIDES OF NITROGEN (NO ₇) OZONE (O ₃) LEAD (Pb) CARBON MONOXIDE (CO) AMMONIA (NH ₇) ARSENIC (As)	WNW Partly Cloudy METHODS METHODS IS 5182 Part 24 · 2019 IS 5182 Part 23 · 2006 (fr 2017) IS 5182 Part 2 · 2001 (R.2017) IS 5182 Part 6 · 2006 (R 2017) CTL/SOP/AIR/08 · 2016 IS 5182 Part 25 · 2016 IS 5182 Part 25 · 2018 CTL/SOP/AIR/06 · 2016	μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³	18-6 46-5 6-3 16-5 13-8 BOL(DL:0.1) BOL(DL:0.1) 9-7 9.7 BDL(DL:1.0)	60 100 80 90 100 1 4 400 6
Wind (Weath Test Rs The abs SLNO 1 2 3 4 5 6 7 8 9 10	Direction er Condition esuits: IVV cample tested as received, and res PARAMETERS PARTICULATE MATTER (PM ₁₀) SALPHUR DIOXIDE (PM ₁₀) SALPHUR DIOXIDE (SO ₂) OXIDES OF NITROGEN (NO ₇) OZONE (O ₃) LEAD (Pb) CARBON MONOXIDE (CO) AMMONIA (NH ₂) ARSENIC (As) NICKEL (NI)	WNW Partly Cloudy	μg/m³ μg/m³	18-6 46-5 6-3 16-5 13-8 BDL(DL-0-1) 0-0L(DL-1-15) 9-7 	60 100 80 90 100 100 1 4 400 6 20

For Chonnal Testing Laboratory Pvt Ltd

used Station MANIKANDAN Pape 1 of 7 G Environment Division Head | (CHEMICAL)

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Test Report No & Date

TEST REPORT

CTL/CH/N-22631/2024-25 & 30.05.2024

 SL.MO
 PARAMETERS
 METHODS
 UNITS
 RESULTS
 NAAQS*

 14
 MERCURY (Hg)
 CTL/SI/P/AIR/75-2016
 Hg/Hg¹
 B9L(DL:0.01)
 .

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Poresta, Government of India vide Gasetre NucliCeation G 5.8.826(E) dated 16.11.2009

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

END OF REPORT

vi Signatory G. MANIKANDAN Head - Environment Division (CHENNCAL)

For Chennal Testing Laboratory PvL&td

Page 2 of 2

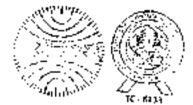
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TEST REPORT

	tepori No & Date	CTL/CH/N-22632/2024-25 & 304	052024			
Sample Number N-22632/24-25						
	of the Customer	N/S. TAMIL NADU NEWSPRINT A				
Addre	55	Mondipatti Village, K.Periyapatti Po		aluk,		
		Trichy District - 621 306, Tami Nad	a.			
-	e Drawn by	Laboratory				
-	e Name	Arobient Air				
-	e Description	Ambient Air Quality Monitoring				
	ing Location e Drawn on	110KVA SUB-STATION (RIGHT SI 20.05 2024 & 10 10 to 21.05.2024 &		marj		
-	e Received on	24.05 2024 @ 10 10 10 10 20.05.2024 #	14.70			
-	ing Plan & Procedure	CTL/QSP/F-89 & 15 5182 (Part V) at	od (Part XIV)			
•	e Quantiky	1 No				
	ment used for Sampling	RDS Sampler S.No:2611-DTI-2019				
	als Started on	24 05:2024				
	sis Completed on	30.05.2024				
	nmental Condition					
	e Humidaty	69%				
	nt Temperature	30°C				
	Direcuon er Condinon	WNW Partly Cloudy				
Teat Ré		Party Civedy				
	ave sample tested as received, and res	uits are as follows:				
SUNO	PARAMETERS	MÉTHODS	UNITS	RESULTS	NAAQS*	
ı	PARTICULATE MATTER (PM ₁₅)	IS 5182 Part 24 - 2019	HE/OF	28.5	60	
2	PARTICULATE MATTER (PN 10)	IS 5382 Part 23 - 2006 (R.2017)	⊬g/m°	64.8	100	
3	SULPHUR DIOKIDE (SO2)	IS 5182 Part 2 - 2001 (R 2017)	ug/m²	I1.8	80	
4	UXIDES OF MITROGEN (NO ₃)	(\$ \$ [92 Part 6 - 2006 (R.2017)		21.5	нŷ	
5	020NE (0)	CTL/SOP/AIR/08 · 2016	Ng/m ³	27.0	180	
Ú	LEAD (PD)	IS \$102 PART 22 - 2004 (R.2019)	$\mu g/m^2$	00L(DL-0.1)	1	
,	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m²	BDL(DL-1.15)	4	
ê	AMMONIA [NH,]	IS \$182 Part 25 - 2019	r¢/m³	26.5	400	
9	ARŞEMIC (As)	CTL/SOP/AIR/06 - 2016	ng/m²	BDL(DL-1.0)	ð	
10	RICKEL (N)	15 5 182 Part 26 - 2020	ດຊູ/ເກີ	B[H_][H_ 5:0]	20	
н	OBNZEWE (C.H.)	IS 5102 PART 11 - 2006 (R 2017)	H\$/m ²	BDL(PL 1.0)	5	

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NYDROGEK SULPHIDE(H₂S)

For Chennal Testing Laboratory Pvt Ltd.

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EQL(QL0.5)

BDL(DL:6.0)

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IS 5182 PART 12 - 2004 (R 2019)

IS 5182 PART 07 - 2021

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Test Report No & Date

TEST REPORT

CTL/CH/N-22632/2024-25 & 30.05.2024

5L.NÓ	PÅRAMETERS	NETHODS	UNITS	RESULTS	NAAQS'
14	ME>CURY (Ng)	CTL/SOP/AIR/25-2016	ng∦m*	0040r0.01)	-

*National Ambient AmQuality Standards prescribed by Ministry of Environment and Porests. Government of India vale Gazetre Notification G S.P. 826(E) dated 18.11.2009.

BPL - Below Detection Lineit(D.L - Detection Lineit)

END OF REPORT

For Chennal Testing Laboratory Pvt 11d

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Page Col 2

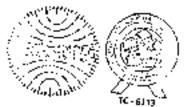
G. MANIKANDAN Head + Environment Division (CHEMICAL)

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TEST REPORT

Test	Report No & Date	CTL/CIL/N-22633/2024-25&30.	05.2024			
Sample Number N-22633/24-25						
Name	Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,					
Addin	ess	Nondipatti Village, K.Periyapatti Po	st, Manapparai T	a)uk,		
		Trichy District - 621 306, Tamil Nad	lu.			
	le Drawn by	Laboratory				
-	le Name	Ambient Alt				
Samp	le Description	Ambient Air Quality Monitoring				
Sampl	ling Location	WEST ENTRANCE GATE (RIGHT S FROM COMPOUND WALL)	IDE 50 METERS.	AWAY FROM THE GAT	E. 10 METERS	
-	le Drawn ou	20.05-2024 & 09.40 to 21.05 2024 &	09.40			
-	le Received oo	24.05.2024				
-	ing Plan & Procedure	CTL/QSP/F-89 & IS 5182 (Part V) at	nd (Part XIV)			
-	le Quantity	1 No				
	ment used for Sampling sis Started on	RDS Sampler S No 2000-DTC-2016 24.05-2024				
-	sis Completed on	30.05.2024				
	onmental Condition	30.03.2024				
	e Humidity	69%				
	ns Temperature	30°C				
	Direction	WINN'				
	er Condition	Parely Cloudy				
<u>Teat Re</u> The abo	e suite. We cample restaring received, and reg	alins are as follows:				
SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*	
1	PARTICULATE MATTER (PM23)	4\$ 5182 Part 24 - 2019	µg/m²	30.5	60	
2	PARTICULATE MATTER (PM _{PP})	IS 5182 Part 23 - 2006 (R.2017)	pg/m²	63.2	100	
3	SOLPHOR DIOXIDE (SO ₃)	IS \$182 Part 2 · 2001 (R.2017)	មុខ្លូ/កាំ	13.5	60	
4	OXIDES OF NITROGEN (NO.)	15 5182 Part 6 + 2006 (8.2017)	eg/m ¹	29.0	80	
5	CZONE (05)	CTL/SOP/AIR/08 - 2016	µ ç /៣ ²	32.3	100	
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R 2019)	µg∕m ⁸	BDL(0L:0,1)	1	
7	CARBON MONOXIDE (CO)	CTL/SOP/AI8/23 2016	പട്ട/ണ ²	BDL(DL: 1.15)	4	
8	AMMONIA (NH3)	155382 Part 25- 2018	,ag∕m²	28.5	400	
9	ARSENIG (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDI (DI 1-0)	6	
10	MICKBL (MI)	15 5182 Part 20 - 2020	ug/m ²	BOL(DES.0)	20	
11	BEN2EME (C4H4)	IS 5182 PART (1 - 2006 (8.2017)	⊭g/aj ⁹	BOL(DL:1.0)	5	
12	BENZO(a)PYRENE	IS 5167 PART 12 - 2004 (R.2019)	ng/m²	80L(PL:0.5)	ĩ	

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For Chennai Testing Laboratory Pre Ltd.

Horised Signatory Page 1 of 2 GI MANIKANDAN Head Environment Division (CHEMICAL)

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Test Report No & Date

TEST REPORT

CTL/CH/N-22633/2024-25 & 30.05.2024

SL.NO	PARAMETERS	Mainkóus	UNITS	RESULTS	NYYĞ2.
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	µg/m'	BDL(DL 0.01)	

*National Ambient Air Quality Standards prescribed by Ministry of Boylronment and Forests, Government of India vale Cazette Notification G.S.R. 826(E). dated 18.1.1.2009.

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

END OF REPORT

For Chennal Testing Laboratory Pvt Ltd

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Page 1 of 2

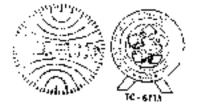
G MANIKANDAN Head ¹ Environment Division (CHEMICAL)

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TEST REPORT

Test I	Report No & Date	CTL/CII/N-22634/2024-25 & 30	05.2024		
Башр	le Namber	N-22634/24-25			
Name	of the Customer	M/S. TAMIL NADU NEWSPRINT A	ND PAPERS LIM	tred - Unit II,	
Addro	c 15	Nundipatti Village, K.Periyapatti Po	st, Manapparai T	ajuk	
		Trichy Districe 621 306, Tamil Nad	lu.		
•	le Draws by	Laboratory			
-	le Name	Ambient Air			
	le Description	Ambient Air Quality Monitoring			
	ling Location	MALAYA GOUNDER HOUSE, PERI		iΕ	
	le Drawn ou Ia Daosta d	19.05.2024 & 10.25 to 20.05.2024 &	10.25		
	le Received on Line Place & Presedues	24.05.2024			
-	ling Plan & Procedure le Quantity	CTL/QSP/F-69 & IS 5182 (Part V) at 1 No	nd (Part XIV)		
	next used for Sampling	RDS Sampler S.No:2610-DTI-2019			
	sic Started on	24.05.2024			
-	sis Completed on	30.05.2024			
	onmental Condition				
	e Rumuluty	66%			
	nt Temperature	31°C			
	Direction er Condinon	WNW			
	er Conavian Isulis:	Partly Clouay			
	ove sample tested to received, and res	utis are as follows.			
SLNO	PARAMETERS	METHODS	VNIT5	RESULTS	NAAQS'
1	PARTICULATE MATTER (PM ₇₅)	IS 5182 Part 24 - 2019	μg/m ³	147	60
Ż	PARTICULATE MATTER (PM ₄₄)	185183 Part 23-2006 (8 2017)	д <u>с</u> /00 ¹	36 L	100
Ş	SULPHUR DIOXEDE (SD)	IS \$182 Part 2 - 2001 (R 2017)	µg/m ³	4.5	80
4	OXIDES OF NITROGEN (HO2)	IS 5182 Part 6 - 2006 (R 2017)	µg/m³	9.6	60
5	020XE(0 ₃)	UTL/SOF/AIR/08 - 2016	µg/m³	اف.+	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m³	BDL(19.4).1)	1
7	CARDON MONOXIDB (CO)	CTL/SOP/AI8/23 - 2016	u ig/m 2	BDL(DL:1.15)	4
8	AMMONIA (NH3)	15 5 (92 Part 25 - 2018	יייע, אין אין ^ב	7.2	400
		CTL/SOP/AIR/06 - 2016	۳g/m³	BOL(ÓL 1.Q)	6
4	ARSENK' (Ar)				
۹ 10	ARSENIE" (A+) NICKEL (Mi)	IS 5182 Part 26 - 2020	ng/m²	BDL(DL/5.0)	20
10		IS 5182 Part 26 - 2020 IS 5182 PART 11 - 2006 (R.2017)	ng/m² P g /m²	BDL(DL-5.0) BDL(DL-1.0)	<u>20</u> 5
10 11	NICKEL (Mi)				

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ised Signator, Page 1 of 2 G. MANIKANDAN Head - Environment Division

CHEMICAL)

For Chennal Testing Laboratory Pvi Ltd

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Test Report No & Date

TEST REPORT

CTL/CII/N-22634/2024-25 & 30.05.2024

\$LNÓ	PARAMETER5	NETHODS	UNITS	RESULTS	NAAQS'
14	MERCURY (Hg)	CTL/SO P/AI R/25-2016	12/11× ³	BDL(DL:0.01)	-

*National Amblent Air Onality Standards presenbed by Menascry of Environment and Forests, Government of India vide Gazette Notfication G.S.R. 826(E) dated 18.11.2009.

80L - Below Detection Limit(0.L - Detection Limit)

END OF REPORT

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For Cleaned Testing Laboratory Pve Ltd.

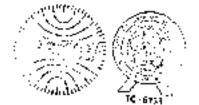
G. MANIKANDAN Head - Erwironment Division (CHEMICAL)

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TEST REPORT

Test	Report No & Date CTL/CH/N-22635/2024-25 & 30.05.2024					
Samp	ample Number N-22635/24-25					
Name	ane of the Customer N/S. TAMIL NADU NEWSPRINT AND PAPERS LIM(TED - UNIT)).					
Addr	855	Mondipatti Village, K.Periyapato Po	st, Manapparai T	auk		
	Trichy District - 621 306, Tamii Nadu.					
-	Sample Drawn by Laboratory					
-	le Name	Ambient Air				
	le Description	Ambient Air Quality Monitoring				
	ling Location	SHANMUGAM, PADHIRIPATTI				
-	le Drawn on le Kecelved on	19 05.2024 & 09.50 to 20.05.2024 & 24.05.2024	209.50			
-	ling Plan & Procedure	CTL/QSP/F-89 & IS \$182 (Part V) a	od (Berr X00			
-	e Quantity	1 No	ad (carcarc)			
	ment used for Sampling	RD5 Sampler 5. No:2613-DTI-2019				
Analy	sis Started ол	24.05.2024				
	Analysis Completed on 30.05.2024					
	oomental Condition					
	Relative Humidity 66%					
	nt Temperature Dizection	31°C WNW				
	er Condition	n pan Panty Cloudy				
Test R.		1 - (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (-) = (
The ab-	ove sample tested as necessed, and rea	uits are as follows-				
SL.NO	PARAMETERS	NETHODS	UNITS	RESULTS	NAAQS*	
1	PARTICULATE MATTER (PM ₂₅)	IS 5182 Part 24 - 2019	lug/im ³	17.0	60	
2	PARTICULATE MATTER (PM ₁₀)	15 5182 Part 23 - 2006 (R.2017)	μg/m ^a	39.0	100	
3	SULPHUR DIOXIDE (SO ₂)	IS \$182 Part 2 - 2001 (R.2017)	MB/m ³	61	80	
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Pairt 6 - 2006 (R.2017)	μg/m ³	110	80	
5	OŽONE (Og)	CTL/SOP/AIK/48-2016	μ g /m²	15.2	LBO	
6	EEAD (Po)	IS 5182 PART 22 - 2004 (R.2019)	ug/m ⁸	BDL(DL.0.1)	· —	
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	org/m [*]	BDL(OL:1.15)	4	
8	AMMONIA (NH ₂)	IS 5182 Part 25 - 2018	µg/መ ³	8.9	400	
-					<u> </u>	
. 9	ARSENIC (As)	GTL/50P/AIR/06 - 2016	ng/m ²	BDI-(DL-1 0)	. 6	
9 10	ARSENIC (As) NICKEL (N) BENZENE (C.H.)	GTL/50P/AIR/06 - 2016 IS 5182 Part 26 - 2020	ng/m² ng/in²	801401-10) 801401-500	6 20	

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BENZO(a)PYRENE

HYDROGEN SOLPHIDE(H₂S)

For Chennel Testing Laboratory Pvi Ltd.

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BDL(DL-0.5)

80L(0L-6 0)

eg/m¹

µg/m²

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IS 5102 PART 12 - 2004 (R.2019)

IS 5182 PART 07 - 2021

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Test Report No & Date

TEST REPORT

CTL/CH/N-22635/2024-25 & 30.05.2024

51.440	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS-
]4	MERCURY (JIR)	CTL/50P/AIR/25-2016	յյել/ա՝	BDL(D), 0.01)	

*Kational Amblent Air Quality Standards prescribed by Ministry of Environment and Foreats. Government of India vide Gazette Monficientos G.S.R. 826(6) dated 18 11.2009.

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

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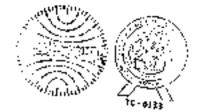
G. MANIKANDAN Head - Environment Division (CHEMICAL)

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TEST REPORT

Test Report No & Date CTL/CH/N-22636/2024-25 & 30.05.2024							
Sampl	ample Number N-22636/24-25						
Name	ame of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,						
Addre	55	Nondiparti Village, K.Perlyaparti Po	st, Manapparai Tal	Juk,			
		Trichy District - 621 306, Tamil Nad					
Simpl	e Drawn by	Laboratory			-		
Sampi	e Name	Ambient Air					
Sampl	e Description	Ambient Air Quality Mohitoring					
Sampl	ing Location	ARUMUGAM GOUNDER, PODUVAL	RPATTI				
Sampl	e Drawn o L	19.05.2024 & 09.30 to 20.05.2024 &	09,30				
Sample	e Received on	24.05.2024					
Sampl	ing Plan & Procedure	CTL/QSP/F-89 & IS 5182 (Part V) ar	ed (Part XIV)				
Sampl	e Quantity	1740					
Equipo	neur used for Sampling	RDS Sampler S No:224S-DTK-2017					
Analys	is Started on	24.05.2024					
Analys	is Completed (a)	30.0 5.2024					
Ehviro	nmental Condition						
Relativ	e Humidity	66%					
	11 Temperature	30°C					
	precision	WriteWr					
	h Condition	Parely Claudy					
Feat Re The abo	<u>981165</u> ve sample tested as received, and vas	ains are as fellows:					
SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQ5'		
1	PARTICULATE MATTER (PM ₂₃)	IS 5182 Part 24 - 2019	μg/m ³	190	60		
5		10 5 10 7 D 70 - 2004 (D 10-70)	<i>د</i> با				

1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m³	190	60
2	PARTICULATE MATTER (PM _{4P})	IS 5162 Part 23 2006 (R.2017)	µg/m ³	10.5	100
3	SULPHOR DIOXIDE (SU ₂)	15 \$182 Part 2 - 2001 (R 2017)	µg/m*	5.4	80
4	OXIDES OP NITRUGEN (MO3)	JS \$182 Part 6 - 2006 (8 2017)	ug/m ³	9.6	en.
5	0Z0NG(0 ₂)	CTL/SOP/AIH/08 - 2016	µg,/m³	10.5	160
6	LEAD (PD)	LS 5182 PART 22 - 2004 (R.2019)	4 6 /m ³	BDL(DL:0.1)	I
1	CARBON MUNUXIDE (CU)	CTL/SOP/AIR/23 2016	mg/ml ³	601(01:1.15)	4
Ð	AMMOMIA (NH3)	15 5182 Part 25 - 2018	µg/m²	57	400
9	ARSENIC (As)	CTIL/SOP/A3R/06 - 2016	ng/in²	BDL(DL I Ø)	4.
10	MICKEL [NI)	15 5182 Pain 26 - 2020	ng/m ³	80L(0L:50)	20
11	BENZENE (C _é H _a)	15 5182 PART 11 - 2006 (8.2017)	Per/m ²	80L(DL:10)	5
12	BENIO(3)PYRENE	I\$ 5187 PART 12 2004 (R 2019)	ug/m²	BOL(DL:0.5)	 ,
13	HYDROGEN SULPHIDE(H2S)	IS 5182 PART 07 - 2021	eg/m ²	BDL(DL:6.0)	

For Chonnel Testing Laboratory Pvi Ltd.

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Test Report No & Date

TEST REPORT

CTL/CH/N-22636/2024-25 & 30.05.2024

SL NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS'
14	MERCURY (Hg)	CYL/SOP/A18/25 2016	;-g/m²	RTHL[THL (0.02)	

"Notional Ambrent Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette NotoFrankin G.S.R. 826(E) dated 18.11.2009.

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

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Por Chennal Testing Laboratory Pvt Ltd

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Head - Environment Division (CHEMICAL)

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TEST REPORT

Test Report No & Date CTL/CH/N-24922/2024-25 & 03.07.2024								
Samp	le Number	N-24922/24-25	N-24922/24-25					
Name	of the Customer	M/S. TAMIL NADU NEWSPRINT	AND PAPERS LIMI	TED - UNIT II,				
Addre	13 5	Mondipatti Village, K.Periyapatti k	2061, Manapparai Ta	dyik,				
		Trichy Instrict - 621 306, Tamil H	adu.					
•	le Orawn by	Lalencetory						
	e Name	Ambient Air						
-	e Description	Amblent Air Quality Monitoring						
-	ling Location le Drawn on	BACKSIDE OF WORK SHOP (NEA		ILL)				
	le Received on	24.06.2024 & 11.30 to 25.06 2024 27.06.2024	8 11.30					
-	ling Tian & Procedure	CTL/QSP/F-87 & 15 5182 (Part V)	and (Part XIV)					
-	le Quantiky	1 No						
_	ment used for Sampling	RDS Sampler S.No.2245-DTK-201	7					
Analy	sis Started on	27.06.2024						
	sis Completed on	03.07.2024						
	oomante) Condition							
	re Humidity	63%						
	nt Temperature Direction	33°C SW						
	er Condition	Partly Cloudy						
Cest Re		Party Cloudy						
The abo	We sample tested as received, and read	lis are as follows:						
ST-140	PARAMETERS	METHODS	UNITS	RESULTS	MAAQS-			
1	PARTICULATE MATTER (PM ₂₅)	15 5162 Part 24 - 2019	μ g /m ³	278	60			
2	PARTICULATE MATTER (PN ₁₄)	IS 5182 Part 73 - 2006 (R.2017)	•g/m ³	59.4	100			
3	SULPHUR DIOXIDE (SO2)	IS 5162 Part 2 - 2001 (R.2017)	"ng/ns"	10.2	80			
4	OKIDES OF NITROGEN (NO2)	IS 5182 Part 6 - 2006 (R.2017)	vg∕m³	23.6	80			
5	020#E (0 ₃)	CTL/SOP/AIR/08 - 2016	µg/ л ²	32.5	ĴIŜPÛ			
6	LEAD (Pb)	1\$ 5182 PART 22 - 2004 (R.2019)	pg/m [®]	BDL(DL:0.1)	1			
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 2016	រពុត្ត/ហ	BDL(DL:1.15)	4			
8	AMMORIA (RH ₃)	IS \$182 Part 25 - 2018	M8/m ²	23.7	400			
٩	ARSENIC (Ac)	CTL/SOP/AIR/06 - 2016	ഷ്ണ്	BDL(01:1.0)	6			
		IS 5182 Part 26 - 2020	►g/m ²	BOL(OL:5:0)	20			
LD	NICKEL (NI)	103102 Fall 20- 2020	. 01					
	NICKEL (NI) BENZENE (C.H.)	IS \$182 PART 11 - 2006 (R.2017)	μ g /m ¹	804L(DL-1.0)	5			
IJ				BOL(DL-1.0) BOL(DL-0.5)	5			
1J 12	BENZEME (C.H.)	IS \$182 PART 11 - 2006 (R.2017)	µg/m¹					

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C.N. U93000TN2000PTC043869

TEST REPORT

Test Re	sport No & Nate	CTL/CH/N-24922/2024-25 & 03 07.2024				
SLIND	PARAMETERS	NETHODS	UNITS	RESULTS	NAAQS*	
	MERCURY (Hg)	CTL/\$09/AIR/25-2016	ug/m ⁴	BDL(DLC.OI)		

*National Arabient Air Quality Standards presented by bunktry of Environment and Poeses, Covernment of Judia vide George Notification C.S R B26(B) 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)

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TEST REPORT

Test R	Cal Report No & Dale CTL/CH/N-24923/2024-25 & 03.07,2024						
Sample	ample Number N-24923/24-25 ame of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II.						
Name							
Addre:	25	Mondipath Village, K.Periyapatti Po	st, Manapparai Ta'	luk,			
		Trichy District - 621 306, Tamil Nad					
Sample	e Drawn by	Laboratory					
Sample	e Name	Amblent Air					
Sample	e Description	Ambient Air Quality Monitoring					
Sampli	ing Location	FACTORY CANTEEN BUILDING					
Sample	e Dirawn ole	24 06.2024 & 11.15 to 25 06.2024 &	11.15				
Sample	e fi eived on	27.06.2024					
Sampil	ag Plan & Procedure	CTL/QSP/F-89 & IS 5182 (Part V) ar	nd (Pary XIV)				
Sample	e Quandty	1 No					
Equipr	new used for Sampling	RDS Sampler S No:2610-DTI-2019					
Analys	is Started on	27.06.2024					
Analys	is Completed on	03.07.2024					
	nmental Condition				•		
	e Humidity	63%					
	nt Temperature	33°C					
	irection	SW					
	er Condition	Partly Cloudy					
<u>Fest Re</u> The abo	<u>suffic:</u> ve sample rested as received, and res	inits are as follows:					
SL NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS"		
1	PARTICULATE MATTER (PN ₂₅)	IS 5192 Part 24 - 2019	eg/m ³	23.0	60		
2	PARTICULATE MATTER (PM)	IS 5182 Part 23 - 2006 (8.2017)	- 6 / m ³	54.8	100		

1	PARTICULATE MATTER (PN ₂₅)	IS 5102 Part 24 · 2019	hth, w _y	23.0	ŝ
2	PARTICULATE MATTER (PM ₁₀)	IŞ 5182 Part 23 - 2006 (R.2017)	ng/m²	54.8	100
3	SULPHOR DIOXIDE (SO3)	IS 5382 Part 2 - 2001 (R.2017)	eg/m²	9.0	90
4	0%@ES OF NITROGEN (NO2)	15 5182 Part 6 - 2006 (R.2017)	Kg/m ²	17.8	80
5	020NB(01)	CTL/SOP/AIR/08 - 2016	pg/m ²	22.6	100
Ġ	LBAD (Pb)	15 5382 PART 22-2004 (R 201 9)	µg/m²	BDL(DL:0.1)	1
2	CARBON MOMOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	80L(0L-1-15)	4
ė	AMMONIA (NR.)	I\$ 5162 Pays 25 2018	µg∕m³	19.8	400
9	ARSENIC (As)	CTL/50P/AIR/06 - 2016	ng/m [°]	BDL(DL-1.0)	6
10	NICKEL (NR)	15 5182 Part 26 - 2020	ng/m ³	BDL(DL-5.0)	20
11	BENCENE (C ₆ H ₆)	IS 5182 PART L1 - 2006 (R.2017)	ng/m²	BDL(DL-L/O)	5
12	OPN20(x)PYPENE	19 \$102 PART 17 - 2004 (P 2019)	s(L/im²	(? 0·10),100	1
13	HYDROGEN SULPHIDE(H}S)	IS \$182 PART 07 - 2021	µg/m²	BOL(UL:6.0)	•

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unitorised Signatory G. MANIKANDAN Fage 1 of 2 Head - Environment Division (CHEMICAL)

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TEST REPORT

Tesi Report No & Dale CTL/CH/N-24923/2024-25 & 03.07.2024					-
SLNÓ	PARAMETERS	MCTHODS	UNITS	NEŚŲLŢŞ	NAAQS'
и	MERCURY (H g)	CTL/SOP/AIR/25-2016	₩8\lu _y	BDL(DL-0.01)	-

rds prescribed by Ministry Enveronment and Forests, Government of India vide Gapy (ion G S.R. 826(E) dared 18.11.2009.

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

END OF REPORT

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For Chemical Tosting Laboratory Pvt Ltd.

Authorized Stenetory G. MANIKANDAN

Page 2 of 2

Head - Environment Division (CHEMICAL)

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TEST REPORT

	Cest 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.					
Addre	55	Mondipatts Village, K.Persyapatti Po		aluk.	
		Trichy Disniet - 621 306, Taniil Nad	lu.		
-	e Urawn by	Laboratory			
	ie Name le Description	Amblent Air Amblent Air Quality MooKoring			
-	ing Location	GUEST HOUSE			
-	e Drawn on	24.06.2024 & 12.50 to 25.06.2024 &	12.50		
	e Received on	27.06.2024			
	ing Plan & Procedure	CTL/QSP/F-89 & IS 5182 (Part V) at	nd (Part XIV)		
Sampl	e Quantity	1No	•		
	ment used for Sampling	RDS Sampler S.No:2613-DTJ-2019			
	sis Started on	27.06.2024			
	sis Completed on	03.07.2024			
	amental Condition	(28)			
	re Humidity nt Temperature	63%) 33°C			
	Direction	ŚW			
Weath	er Condition	Partly Cloudy			
Tesi Re	Salth				
i he abo	we sample tested as received, and res	ults are as follows:			
SL-190	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS"
l	PARTICULATE MATTER (PM ₂₄)	15 5182 Part 24 - 2019	µg/m²	14.9	60
Z	PARTICULATE MATTER [PM ₁₀]	IS 5182 Part 23 - 2006 (R.2017)	µg∕m²	41.7	100
з	SULPHUR DIOXODE (50)	IS 5182 Part 2 - 2003 (R. 2017)	ng/m ^a	6.9	60
•	OXIDES OF MITROGEN (HO2)	IS 5182 Part 6 - 2006 (P.2017)	Ng/m [*]	13.5	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m³	19,6	08t
6	LEAD (PD)	15 \$182 PART 22 2004 (R2019)	Ng/m²	BDL(DL.0.1)	1
7	CARBÓN MÓNOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m²	BOL(QL:1.15)	4
9	AMMORIA (NH ₃)	15 5182 Part 25 - 2018	µg)m'	12.2	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	Rg/TP ³	801(05-1.0)	6
10	NICKEL (MI)	1\$ \$182 Part 26 - 2020	ng/m ³	BDL(DL:5 0)	20
п	BBN25WE (C ₆ H ₄)	I\$ \$182 PART 11 - 2006 (R.2017)	µg/m²	8DL(DL-1 0)	5
12	BENZO(A)PYRENE	IS 5182 PART 12 - 2004 (R 2019)	ng/m²	BDL(DL:0.5)	1

INDROGEN SULPHIDE(H₇S)

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

For Chennel Lesting Laboratory Pet Ltd

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15 5182 PART 07 - 2021

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C.N. U93000TN2000PTC(43869

TEST REPORT

Test Re	Test Report No & Date CTL/CH/N-24924/2024-25 & 03.07.2024					
SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS"	
14	MERCURY (Hg)	CTL/SOF/AIR/25-2016	ມຽ/ຫ ¹	BDL(DL:0.01)		

National Authent Air Quality Standards presented by Nunistry of Environment and Paresis, Government of India vide Cazette Natilication G.S.R. #26(E) dated 1811 2009.

BDL - Below Detection Limit(DL - Detection Limit)

*** END OF REPORT***

For Chennal Testing Laboratory Pve Ltd

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Page 7 of 2

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G. MANIKANDAN **Head - Environment Division** (CHEMICAL)

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TEST REPORT

	eport No & Date e Number	CTL/CH/N-24925/2024-25 & 03. N-24925/24-25	.07.2024			
•	of the Customer	M/S. TAMIL NADU NEWSPRINT A		TED - UNIT U		
Addre		Mondipatti Village, K.Periyapatti Pe				
		Trichy District - 621 306, Tamil Na				
Sampi	e Drawn by	Laboratory				
-	eNaote	Ambient Air				
Sampl	e Description	Ambient Air Quality Monitoring				
-	ing sucation	THIRU, KANDASAMY HOUSE, POP COMPOUND WALL)	-	IETER ROAD JUNCTIC	N, OUTSIDE OF	
	е Вгама он	23.06.2024 & 09.35 to 24.06.2024 &	3 09.35			
-	e Received on	27.06.2024				
•	ing Plan & Procedure	 CTL/QSP/F-89 & IS 5182 (Part V) a 1 Nv 	ned (Mari XIV)			
	e Quantiky ment used for Sampling	RDS Sampler 3-Mo:2245-DTK-2017				
	is Started on	27.06.2024				
	its Completed on	03.07.2024				
	conectal Condition					
	+ Hamidity	65% ***				
	nt Temperature Nection	32.5°C 5W				
	er Condition	Partly Cloudy				
Test Re						
The abo	we sample tested as received, and res	ults are as follows:				
SL NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*	
1	PARTICULATE MATTER (P™75)	IS \$182 Part 24 - 2019	µg/m ³	21.4	60	
2	PAPTICULATE MATTER (PM ₁₄)	1\$ 5182 Part 23 - 2006 (R.2017)	µg/ai ¹	52.8	100	
3	SULPHUR DIOXIDE (SO ₁)	IS 5182 Part 2 - 2001 (R.2017)	² (س) چينې	7.2	60	
4	OXIDES OF NITROGEN (NO ₂)	US 5182 Part 6 - 2006 (R.2017)	₽\$/ M ³	17.5	90	
5	020HB (0 ₁)	CTL/90F/AIR/08-2016	ng/m ³	16.9	180	
6	LEAD (Pb)	IS \$182 PART 22 - 2004 (R.2019)	ng/m²	BDL/DL0.()	1	
7	CARSON MUNDXIDE (CU)	CTL/SUP/AIR/23 - 2016	nig/ m ³	80L(DL:1.15)	4	
8	AMMONIA (NH3)	15 5182 Part 25 - 2018	m²/m²	12.3	400	
9	ARSENIC (As)	CTL/SOP/AIR/06-2016	ng/m²	0DL(DL-1.0)	6	
10	NICKEL (Ni)	85 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	20	
11	BENZENE (C.H.)	IS 5192 PART 11 - 2006 (R.2017)	μg/m ³	BDL(DL.1.0)	\$	
12.1	BENZO(a)PYRENE	IS \$182 PART 12+ 2004 (R.2019)	ng/m°	RDL(DL-0.5)	1	
13	HYDROGEN SULPHIDE(H>S)	IS 5182 PART 07 - 2021	² an\gu	BDL(DL:6-0)	-	

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G. MANKANITAN Head - Environment United? (CHEMIGAE)

For Chennal Testing Laboratory Pvt Ltd.

Page 1 of 2

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TEST REPORT

Test Report No & Date CTL/CH/N-24925/2024-25 & 03.07.2024

SL-NQ	PARAMETERS	METHODS	UNITS	NESULTS	NAAQS
Ŀ4	MERCURY (Hg)	CTL/SOP/AIR/25-2016	µg∕na ³	BDL(DL:0.01)	

*National Ambreat Air Quality Standards preserved by Ministry of Environment and Forests, Government of India vide Cazetre Notification C.S.R. #26(E) dated 18.11.2009.

BDL - Below Detection Laner(DL - Detection Limit)

***END OF REPORT

Fer Chennai Testing Laboratory Pvt Ltd

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Page 2 of 2

G. MANIKANDAN Head - Environment Division (CHEMICAL)

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TEST REPORT

SLND PARAMETERS	NETHODS	UNITS	RESULTS	NAAQS		
Test Results The above sample rested as received, and	i results are as follows:					
Weather Condition	Parity Cloudy					
Wind Direction	SW					
Ambient Temperature	33°C					
Rejarive Humidity	63%					
Environmental Condition						
Analysis Completed on	03.07.2024					
Analysis Staried on	27.06.2024					
Equipment used for Sampling	RDS Sampler S.No:2000-DTC-2016	5				
Sample Quantity	1 No	-				
Sampling Plan & Procedure	CTL/QSP/P-89 & IS 5182 (Part V)	and (Part XIV)				
Sample Received on	27.06.2024					
Sample Drawn on	24.06.2024 & 11.55 to 25.06.2024					
Sampling Location	110KVA SUB-STATION (RIGHT S		YAY)			
Sample Description	Ambient Air Quality Nonitoring					
Sample Name	Ambient Air					
Sample Drawn by	Laboratory					
	Trichy District - 621 306, Tambi Nadu.					
Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,					
Name of the Customer	N/S. TAMIL NADÜ NEWSPRINT AND PAPERS LIMITED - UNIT II,					
Sample Number	N-24926/24-25					
Test Report No & Date	CTI./CH/N-24926/2024-25 & 03:07 2024					

SLNO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQ5"
Т	PARTICULATE MATTER (PM ₁₅)	IS \$182 Part 24 - 2019	µg/m²	32.6	60
2	PARTICULATE MATTER (PM ₁₀)	15 5182 Part 23 - 2006 (R.2017)	hE\ue_	69.0	104
3	SULPHUR DIOXI DE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	⊫a/m²	130	B40
4	OXIDES OF NITROGEN (NO2)	IS 5182 Part 6 - 2006 (R.2017)	#2 /14 ³	27.6	040
5	OZONE (Oy)	CTL/SOP/AIR/08+2016	рg/га ³	34.6	180
6	LEAD (Pb)	I\$ \$182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL 0.1)	I
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.1S)	4
Ĥ	AMMONIA (NH ₂)	IS 5182 Part 25 - 2018	µg∕m³	31.8	400
9	ARSENIC (AS)	CIL/SOP/AIR/06-2016	n∉/m²	BDL(DL 1.9)	6
10,	NICK EL (NI)	IS 5182 Part 26 - 2020	ng/m ⁹	BDL(DL/5.0)	20
11	DEM2BNE (C _o ll _é)	I\$ \$182 FART 11 - 2006 (R.2017)	µg/m³	DOL(DL 1.0)	s
12	BENZINAJNYRENE	IS 5182 PART 12 - 2004 (8 2019)	ពខ្ល/៣ ²	BOL(OL-0.5)	1
LĴ	KYDRÓGEN SULPHIDE(H ₂ S)	IS 5162 PART 07 - 2021		BDL(DL:6.0)	

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For Chennal Testing Laboratory Pvi Ltd

Page 1 of 1

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

SLND	PARAMETERS	METHODS	UNITS	RESULTS	MAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	μg/m ³	BDL(DL 0.01)	-

"National Ambient Air Quality Standards proscribed 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

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For Chennal Toshing Laboratory Pvi Lud

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Page 2 of 2

G. MANIKANDAN Head - Environment Division (CHEMICAL)

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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 Ne & Date CTL/CH/N-24927/2024-25 & 03.07.2024						
ample Namber N-24927/24-25						
Name of the Customer	ame of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT 11,					
Address Mondipatti Village, K. Periyapatti Post, Manapparal Taluk,						
	Truchy District - 621 306, Taioù Nad	u.				
Sample Drawn by	Laboratory					
Sample Name	Ambient Air					
Sample Description	Ambient Air Quality Monitoring					
Sampling Location WEST ENTRANCE GATE (RIGHT SIDE SU NETERS AWAY PROM THE GATE, 10 MET FROM COMPOUND WALL)						
Sample Draws 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) a	nd (Part XI¥)				
Sample Quantity	1 No					
Equipment used for Sampling	RDS Sampler S.No: 2611-DT)-2019	RDS Sampler S.No: 2611-019-2019				
Analysis Started on	27.05.2024					
Analysis Completed on	03.07.2024					
Environmental Condition						
Relative Humikhty	63%					
Ambeent Temperature		3°26				
Wind Direction		514				
Weather Condition	Partly Cloudy					
<u>Test Results;</u> The above sample tested as received.	and results are as follows:					
SUND PARAMETERS	NETHODS	UNITS	RESULTS	MAAQS*		
J PARY KULATE MATTER (PM	(\$ \$182 Part 24 - 2019	mg/ma ¹	31.2	60		
2 PARTICULATE MATTER (PM	a) ISS182 Part 23 · 2006 (R.2017)		66.3	100		

-					
2	PARTICULATE MATTER (PM ₁₀)	ISS182 Part 23 - 2006 (R.2017)	pg/m ²	66.3	100
3	SVLPHOR DIOXIDE (SO ₂)	15 5182 Part 2 · 2001 (R.2017)	pg/m²	12.7	60
1	OXIDES OF NITROCEN (NO ₂)	15 5 £82 Poin 6 - 2006 (K.2017)	µg/m²	28.0	90
s	OZONE (0 ₂)	CTL/S0P/AIR/08 - 2016	µg/m²	39.4	160
4	LEAD (Pb)	IS 5182 PART 22 - 2004 (R 2019)	pg/m ³	80L(DL-0.1)	I
7	CARBON NUNOXIDE (CO)	C(1L/SOP/AIR/23-2016	നുന്ന്	BDL(DL-1.15)	4
8	AMNONIA (NH.)	IS 5182 Part 25 - 2018	μ ε /m ⁹	24.6	400
9	ARSENIC (Ab)	CTL/50P/AIR/06 - 2016	i ng/m³	0DL(DL.1.0)	6
10	NICKEL (NI)	IS 5182 Part 26 - 2020	ng/m²	0DL(DL.5.0)	20
11	BENZENE (C ₄ H ₆)	JS 5162 PART 11 - 2006 (R 2017)	eg/m ³	BDF(DF-10)	5
12	BENZONA)PYRENG	IS \$182 PART 12 - 2004 (R.2019)	ng/m ⁴	BDL(DL-0.5)	3
13	HYDROGEN SOLPHIDE(H,S)	IS 5182 PART 07 - 2021	µg/m³	BD1(01/6.0)	•

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For Chennal Testing Laboratory Pvi Ltd

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

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

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C/N_U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-24927/2024-25 & 03.07.2024

5L-NÓ	PARAMETERS	METHODS	UNITS	BESULTS	NAAQS ^a
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	µg∕ra ⁰	BD1(DL:0.01)	-

*National Ambient Air-Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Cazette Notification G.S.P. 826(E) dated 18 (1.2009).

BDL - Below Detection Limit(0.L - Detection Limit)

END OF REPORT

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For Chennal Testing Laboratory Pvi Ltd

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Page 2 of 2

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				
-	Sample Number N-24928/24-25				
	Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II.				
Addro	*	Mondipatti Village, K.Periyapatti Po		luk.	
		Trichy District - 621 306, Taoril Nad	lui.		
-	e Drawn by	Laboratory			
Sample Name Ambient Air Sample Description Ambient Air Quality Monitoring					
-	ing Location	MALAYA GOUNDER HOUSE, PERIN	A DOAT I VALLACI	7	
	e Drawn on	23.06.2024 & 09.55 to 24.06.2024 &		-	
-	e Received on	27.06.2024			
•	ing Flan & Procedure	CTL/QSF/F-89 & IS 518Z (Part V) ar	n d (Par t XIV)		
	e Quantity	1 No	` '		
-	next used for Sampling	RDS Sampler S No:2610-DTI-2019			
Analys	as Started on	27.06.2024			
	is Completed on	03/07 2024			
	nmental Condition				
	e Humidity	65%			
	nt Temperature Anection	325°C			
	er Condition	SW Partly Cloudy			
IeaR	•	rady classy			
	we sample tested as received, and res	alts are as follows:			
SL.NO	PARAMETERS	METHODS	UMIT5	RESULTS	NAAQS*
I	PARTICULATE MATTER (PM _{2.6})	IS \$182 Part 24 - 2019	µg/m²	16.5	60
Z	PARTICULATE MATTER (PM ₁₀)	(\$ \$192 Pays 23 - 2006 (8.2017)	hR\at_	42.5	0 0 £
3	SULPHUR DIOXIDE (SO2)	US 5162 Part 2 - 2001 (9.2017)	hB'(a) ₂	5.6	80
4	ÓXIDES OF NITROGÉN (NÔ ₂)	IS 5182 Part 6 2006 (R.2017)	48/m ³	115	80
Ś	OZONE (0 ₃)	CTL/SOP/AIR/08-2016	NB\W,	17 2	180
ĥ	LEAD (P6)	IS \$192 PART 22 2004 (R 2019)	K\$/m ³	BDL(DL:01)	1
7	CAREON MUNOXIDE (CO)	CTL/\$09/AIR/23 - 2016	mg/m³	BOL(DL:1.15)	4
8	AMMONEA (NH ₂)	15 5182 Part 25 - 2018	ve∕m²	9.6	400
Ŷ	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	4g/m ³	BpL(DL:1.0)	6
10	NYCKEL (Ni)	IS 5182 Part 26-2020	nc/m²	60L(0L:5.0)	20
н	BEMZENE (C _a H _a)	IS \$192 PART 11 - 2006 (R.2017)	µg/m³	DDL(OL:1.0)	5
12	BENZO(#)PYRENE	IS \$182 PART 12 - 2004 (R.2019)	ng/m²	BDL(DL:0.5)	l
13	HYDROGEN SULPHEDE(M:S)	IS 5182 PART 07 - 2021	μg/m ²	804(01.6.0)	

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Authorised Signatory O. MANIKANDAN Page It of 2 Head - Environment Division (CHEMICAL)

For Chonnel Testing Laboratory Put Ltd.

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Test Report No & Date

TEST REPORT

CTL/CH/N-24928/2024-25 & 03.07.2024

SLNO	PARAMETERS	METHÓDS	UNITS	RESULTS	N&AQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25 2016	µg/m²	BDL(DL:0.01)	

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

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

END OF REPORT

For Chennal Testing Laboratory Pvi Ltd

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Page 2 of 2

G. MANIKANDAN Head - Environment Division (CHEMICAL)

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TEST REPORT

Test Report No & Date	CTL/CR/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 Vullage, K.Periyapotti Post, Manapparat Talok,		
	Trichy District - 621 306, Tamil Nadu.		
Sample Drawn by	Laboratory		
Sample Name	Anibient Air		
Semple 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 X(V)		
Sample Quantity	1 No		
Equipment used for Sampling	RDS Sampler S.No:2613-D7I-2019		
Analysis Started on	27.06.2024		
Analysis Completed on	03.07.2024		
Environmental Condition			
Relative Hundidity	65%		
Anibient Temperature	325"7		
Wind Direction	5 4/		
Weather Condition	Partly Okudy		
Test Repulta:			
The above sample tested as recaired, and	results are as follows:		

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS
1	PARTICULATE MATTER (PM _{2.5})	13 5182 Pam 24 - 2019	⊨g/m³	15.7	60
2	PARTICULATE MATTER (PM _M)	15 \$167 Part 23 - 2006 (R.2017)	Pg/m ³	35.4	100
3	SULPHUR DIOXIDE (SO3)	15 5182 Part 2 - 2001 (R.2017)	µg/m ²	5+	60
+	OXIDES OF NITROGEN (NO ₅)	IS 5182 Part 6 - 2006 (8.2017)	MR\1003	10.0	60
5	020H2 (0 ₅)	CTL/SOP/AIR/08 - 2016	ng∕m²	13.8	180
6	LEAD (Pb)	LS 5182 PART 22 - 2004 (R 2019)	ug/m²	BDL(DL:0.1)	
7	CARDON MONOKINE (LO)	CTL/SOF/AIR/23 - 2016	mg/ m [*]	80L(0L:1.15)	
₿	AMMONIA (MHJ)	IS 5162 Part 25 - 2018	112/m ³	10.2	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	iųg/m²	BUL(DL:).0)	6
10	NKXEL (Ni)	IS \$182 Part 26 - 2020	eg/m ²	BDL(DL:S.0)	20
11	BENZENE (C.H.)	IS 5192 PART 11 - 2006 (R.2017)	hill hill here here here here here here here he	BUL(UL:1.0)	5
12	BEN2D(a)PYRENE	IS \$102 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	1
13	HYDROGEN SULPHIOE(H,S)	15 5102 PART 07 - 2021	eg/m ³	BCL(DL:6.0)	-

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For Chemical Testing Laboratory Pre Ltd

Page 1 of 2

Authorised Stenatory G. MANIKANDON Head - Environmens Division (CHEMICAL)

The Applet they'repart provide probability defaular and the new ander may mapped. The Appletics revenues addition as in the education are no provided a solar down by pack.

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

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



CIN 1093000 [N2000P1 C043869]

TEST REPORT

Test Report No & Date CTL/CH/N-24929/2024-25 & 03.07.2024

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS"
14	HERCURY (Hg)	CTL/SOP/AIR/25-2016	µg∕m²	BDL(DL 40t)	

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests. Covernment of India vide Gazetta Notification G.S.R. 826(E) dated 18 11 2009.

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

""END OF REPORT

For Chennel Testing Laboratory Pet 114

Page 2 of 2

ጓ Authorised Signators

G, MANIKANDAN Head - Erlvironment Division (CHEMICAL)

The Report shart not be used to staking defende and for any makesory property. The Report is taken and optimate and of the star of the state of producting factors (not because).

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennal - 600 032, Tamil Nadu - India Phone : +91-44-2250 1757 | E-mail : chennaitesting@chennaitestinglab.com /www.clilabs.in/



C/N: U93000TN2000P1C043869

TEST REPORT

Test Report No & Date Sample Number		CTL/CH/N-24930/2024-25 & 03.	07.2024				
		N-24930/24-25					
Name of the Customer Address		M/S. TAMIL NADU NEWSPRINT AND PAPERS LAMITED - UNIT II,					
Addre	55	Mondipani Village, K.Penyaparti Pose, Manapparai Taluk,					
A		Trichy District - 621 306, Tamil Nadu.					
Sample Drawn by		Laboratory					
Sample Name Sample Description		Ambient Air Ambient Air Gualtha Beacharta					
Sampling Location		Ambient Air Quality Nobitoring ARUMUGAM GOUNDER, POOUVAR PATTI					
Semple Drawn en		23 06.2024 & 10.45 to 24.06.2024 8					
Sample Received on		27.06.2024	. 10.40				
-	ing Plan & Procedure	CTL/QSP/F-89 & IS 5182 (Part V) a	ad (Part XIV)				
Sampi	e Quantity	1 No					
	went used for Sampling	RDS Sampler S.No:2000-DTC-2016					
	is Started on	27.06.2024					
-	ds Completed on	03 07.2024					
	nmental Condition						
	e Hamidity nt Temperature	65%) 32.5*C					
	nr Lemperature Nrection	52.5°C 5W					
	er Condinon	Partly Cloudy					
Test Re The abo	suits we sample tested as servived, and res						
SIL.140	PARAMETERS	METHODS	UNITS	RESOLTS	NAAQS*		
	PARAMETERS PARTICULATE MATTER (PM2s)		UNITS	RESOL'IS	NAAQS*60		
		METUODS					
1 2	PARTICULATE MATTER (PM25)	METHODS 15 \$182 Part 24 - 2019	ug/m ³	17.6	60		
1 2 3	PARTICULATE MATTER (PM ₂₅) PARTICULATE MATTER (PM ₁₅)	METHODS IS \$182 Part 24 - 2019 IS \$182 Part 23 - 2006 (R 2017)	μg/m ³ μg/m ¹	17.6 37.9	60 100		
1 2 3	PARTICULATE MATTER (PH _{2.5}) PARTICULATE MATTER (PM _{1.5}) SULPHUR DIVISIDE (SO ₂)	METRODS 16 \$182 Part 24 - 2019 15 \$182 Part 23 - 2006 (R 2017) 15 \$182 Part 2 - 2001 (R 2017)	μg/m ³ μg/m ¹	17.6 37.9 6.4	60 100 80		
1 2 3 4 5	PARTICULATE MATTER (PM _{2.5}) PARTICULATE MATTER (PM _{1.5}) SULPHUR DIUXIDE (SO ₂) (XIDES OF NITROGEN (NO ₂)	METRODS IS \$182 Part 24 - 2019 IS \$182 Part 23 - 2006 (R 2017) IS \$182 Part 2 - 2001 (R 2017) IS \$182 Part 6 - 2006 (R 2017)	μg/m ³ μg/m ³ μg/m ³	17.6 37,9 6.4 12.8	60 100 80 80		
1 2 3 4 5 6 7	PARTICULATE MATTER (PM _{2.5}) PARTICULATE MATTER (PM _{1.5}) SULPHUR DIVISIDE (SO ₂) (XIDES OF NITROGEN (NO ₂) OZONE (O ₃) LEAD (PD) CARDON MONOXIDE (CO)	METRODS IS \$182 Part 24 - 2019 IS \$182 Part 23 - 2006 (R 2017) IS \$182 Part 2 - 2001 (R.2017) IS \$182 Part 6 - 2006 (R.2017) IS \$182 Part 6 - 2006 (R.2017) CTL/SOP/AIR/08 - 2016	μg/m ³ μg/m ³ μg/m ³ μg/m ³	17.6 37.9 6.4 12.8 9.2	60 100 80 60 100		
1 2 3 4 5 6 7	PARTICULATE MATTER (PM ₂₅) PARTICULATE MATTER (PM ₁₂) SULPHUR DIUXIDE (SO ₂) (XIUES OF NITROGEN (NO ₂) OZONE (O ₃) LEAD (Pb)	METHODS IS \$182 Part 24 - 2019 IS \$182 Part 23 - 2006 (R 2017) IS \$182 Part 2 - 2001 (R.2017) IS \$182 Part 6 - 2006 (R.2017) IS \$182 Part 6 - 2006 (R.2017) CTL/SOP/AIR/08 - 2016 IS \$182 PART 22 - 2004 (R.2019)	μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³	17.6 37.7 6.4 12.8 9.2 801.(11.:0,1)	60 100 00 00 100 1		
1 2 3 4 5 6 7 8	PARTICULATE MATTER (PM _{2.5}) PARTICULATE MATTER (PM _{1.5}) SULPHUR DIVISIDE (SO ₂) (XIDES OF NITROGEN (NO ₂) OZONE (O ₃) LEAD (PD) CARDON MONOXIDE (CO)	METRODS 15 \$182 Part 24 - 2019 15 \$182 Part 23 - 2006 (R 2017) 15 \$182 Part 2 - 2001 (R 2017) 15 \$182 Part 6 - 2006 (R 2017) 0 CTL/SOF/AIR/08 - 2016 15 \$182 PART 22 - 2016	μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³	17.6 37.9 6.4 12.9 9.2 804.(14.0,1) 804.(14.0,1) 804.(15.1)	60 100 80 90 100 1 4		
1 2 3 4 5 6 7 8 9	PARTICULATE MATTER (PM ₂₅) PARTICULATE MATTER (PM ₁₂) SULPHUR DIUXIDE (SO ₂) (XIDES OF NITROGEN (NO ₂) OZONE (O ₃) LEAD (PD) CARDON MONOXIDE (CO) AMNONIA (NH ₁)	METRODS 15 \$182 Part 24 - 2019 15 \$182 Part 23 - 2006 (R 2017) 15 \$182 Part 2 - 2001 (R 2017) 15 \$182 Part 6 - 2006 (R 2017) 15 \$182 Part 22 - 2004 (R 2019) CTL/SOF/AIR/23 - 2016 15 \$182 Part 25 - 2018	μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ²	17.6 37.9 6.4 12.9 9.2 804.(10.:0,1) 805.(01.:1,15) 9,4	60 100 80 90 100 100 1 4 400		
1 2 3 4 5 6 7 8 9 9	PARTICULATE MATTER (PM ₂₅) PARTICULATE MATTER (PM ₁₂) SULPHUR DIUXIDE (SO ₂) (XIUES OF NITROGEN (NO ₂) OZONE (O ₃) LEAD (PD) GARDON MONOXIDE (CO) AMNONIA (NH ₁) ARSENIC (As)	METRODS 15 \$182 Part 24 - 2019 15 \$182 Part 23 - 2006 (R 2017) 15 \$182 Part 2 - 2001 (R 2017) 15 \$182 Part 2 - 2001 (R 2017) 15 \$182 Part 6 - 2006 (R 2017) 15 \$182 Part 2 - 2004 (R 2019) CTL/SOF/AIR/23 - 2016 15 \$182 Part 25 - 2018 CTL/SOP/AIR/06 - 2016	μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³	17.6 37.7 6.4 12.8 9.2 804.(14.:0,1) 804.(01.:1.15) 9.4 B04.(01.:1.0)	60 100 80 100 100 100 1 4 400 6		
1 2 3 4 5 6 7 8 9 10 11	PARTICULATE MATTER (PM _{2.5}) PARTICULATE MATTER (PM _{1.5}) SULPHUR DIVISIDE (SO ₂) (XIDES OF NITROGEN (NO ₂) OZONE (O ₃) LEAD (PD) CARDON MONOXIDE (CO) AMNONIA (NH ₃) ARSENIC (As) NICKEL [Ni)	METRODS 15 \$182 Part 24 - 2019 15 \$182 Part 23 - 2006 (R 2017) 15 \$182 Part 2 - 2001 (R 2017) 15 \$182 Part 2 - 2001 (R 2017) 15 \$182 Part 6 - 2006 (R 2017) 15 \$182 Part 22 - 2004 (R 2019) CTL/SOF/AIR/23 - 2016 15 \$182 Part 25 - 2018 CTL/SOP/AIR/06 - 2016 15 \$182 Part 26 - 2020	μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³	17.6 37.9 6.4 12.8 9.2 804.(14.:0,1) 804.(14.:0,1) 804.(01.:1.5) 9,4 B04.(01.:1.0) 804.(01.:5.0)	60 100 00 100 100 1 4 400 6 20		

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For Chennal Texting Laboratory Pvi Ltd.

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Autoonsed Signatory G. MANIKANDAN Head - Environment Division

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

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



CIN 1093000TN2000PTC043869

Test Report No & Date

TEST REPORT

CTL/CH/N-24930/2024-25 & 03.07.2024

SLNO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	ME/IP3	80L(DL:0.01)	-

*National Amblent Air Quality Standards prescribed by Ministry of Environment and Forests, Covarineent of India vide Gazaine Model Conson G S.R. 876(E) dated 18, LJ.2009.

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

END OF REPORT

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For Chennel Testing Laboratory Pvt Ltd

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Page 2 ed 2

G. MANIKANDAN Head - Environmen: Launion (CHEMICAL)

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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.clilabs.in



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 NADO NEWSPRINT AND PAPERS LIMITED - UNIT II,					
Address		Mondipatti Village, K.Penyapatti Post, Manapparai Taluk, Trichy District - 621 306, Tamil Nadu					
							Sample Drawn by Sample Name Sample Description Sampling Location Sample Drawn on
Amblent Air							
Ambient Air Quality Monitoring	Amblent Air Quality Monitoring						
BACKSIDE OF WORK SHOP (KEAR		itt)					
	29.07.2024 & 09 45 to 30.07 2024 & 09.45						
-	le Received on	01.08.2024 CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV) 1 No					
-	ling Plan & Procedure						
	le Quantity						
	ment used for Sampling sis Started on	RDS Sampler S.No:2245-DTK-2017					
-	sis Completed on		01.08 2024				
	onmental Condition	07 08 2024			·		
Belative Numidity Amblent ^e : perature		65% 32°C					
							Whind I
Weath							
	er Condition	Clear Sky					
The altr	eduils: ave sample bested as received, and re		UNITS	RESULTS	NAAQS*		
The altr	eduils: ave sample bested as received, and re	sults are as follows:	UNITS Hg/m ²	RESULTS	NAAQS*		
The alto SL-NO	eduits: ave sample tested as received, and re PARAMETERS	suits are as follows:		l			
The alto SL-NO L	eduils: ove sample tested as recorded, and re PARAMETERS PARTICULATE MATTER (PM#4)	Suits are as follows: METHODS IS 5182 Part 24 - 2019	wg/m²	317	60		
The alto SL.NO L	estalls: ave sample tested as received, and re PARAMETERS PARTICULATE MATTER (PM ₁₄) PARTICULATE MATTER (PM ₁₄)	Suits are as follows: METHODS IS 5182 Part 24 - 2019 IS 5182 Part 23 - 2006 (N.2017)	µg∕m² µg∕m ³	317 65.5	60		
I he alto SL.WO L 2 3	eshills: ave sample tested as received, and re PARAMETERS PARTICULATE MATTER (PM ₂₄) PARTICULATE MATTER (PM ₁₄) SULPHUR DIOXIDE (SO ₂)	Suits are as follows: METHODS IS 5182 Part 24 - 2019 IS 5182 Part 23 - 2006 (N.2017) IS 5182 Part 2 - 2001 (R.2017)	ид/m ² µд/m ³ µд/m ³	317 65.5 11.4	60 100 80		
The abo SLAKO L 2 3 4 5	eduilds: ave sample tested as received, and re PARAMETERS PARTICULATE MATTER (PM ₂₄) PARTICULATE MATTER (PM ₁₄) SULPHUR DIOXIDE (SO ₂) OXIDES OF NITROCEN (NO ₂)	Suits are as follows: NETHODS IS 5182 Part 24 - 2019 IS 5182 Part 23 - 2006 (N.2017) IS 5182 Part 2 - 2001 (R.2017) IS 5182 Part 6 - 2006 (R.2017)	אפ/m² لوو/m² 	317 65.5 11.4 28.5	60 100 80 60		
SL.NKO L 2 3 4 5	estalls: PARAMETERS PARTICULATE MATTER (PM ₂₄) PARTICULATE MATTER (PM ₂₄) PARTICULATE MATTER (PM ₁₄) SULPHUR DIOXIDE (SO ₂) OXIDES OF NITROCEN (NO ₂) OZONE (O ₃)	Suits are as follows: HETHODS IS 5182 Part 24 - 2019 IS 5182 Part 23 - 2006 (N.2017) IS 5182 Part 2 - 2001 (R.2017) IS 5182 Part 4 - 2006 (R.2017) CTL/SOP/AIR/08 - 2016	بيو/m² يور/m² يور/m² يور/m²	317 65.5 11.4 26.5 34.6	60 100 80 60 180		

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ARSENIC (Aa)

NIGAEL (#I)

RENZENE (C.H.)

BENZO(A)PYRENE

HYDROGEN SULPHIOE(H,S)

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For Chennal Testing Laboratory Pvt Ltd

BDL(DL:1.0)

BOL(OL 5.0)

BDL(0L.1.0)

BDL(DL:0.5)

BDL(DL 6.0)

ng/m⁷

ng/m¹

PE/IP³

ng/os²

ve/m^a

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CTL/SOP/AIR/06 - 2016

IS 5182 Part 26 - 2020

JS 5182 PART 11 - 2006 (R.2017)

IS 5182 PART 12 - 2004 (R-2019)

IS \$182 PART 07 - 2021

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

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



TEST REPORT

Test Report Na & Date		СТ1./СИ/N-26945/2024-25 & 07.08.2024				
SL NO	PARAMETERS	METHODS	units	RESULTS	NAAQS*	
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	ug/in ³	BDL(DL:0.01)		

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

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

END OF REPURT

Verified by

For Chennal Testing Laboratory Pvt Ltd

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Page 2 of 2

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G. MANIKANDAN Head ^L Environment Dresson (CHEMICAL)

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

Phone 1+91-44-2250 1757 LE-mail 1 chennaitesting@chennaitestinglab.com www.clilabs.in



TEST REPORT

	Keport No & Date	CTL/CH/N-26944/2024-25 & 07	.08.2024			
-	vie Number 2 of the Customer	N-26944/24-25				
		N/S. TANIL NADU NEWSPRINT A				
Addr	C 53	Mondiparti Village, K.Periyapatti Po		aluk		
Carrow	le Drawn by	Truchy District - 621 306, Tamil Nac	10.			
-	le Name	Laboratory Ambient Air				
	ic Description	Ambient Air Quality Monitoring				
-	ling Location	FACTORY CANTEEN BUILDING				
-	le Drawn on	2907 2024 & 09.35 to 30 07.2024 t	6 09 25			
-	is Received on	01 08 2024				
Samp	Nog Plan & Procedure	CTL/QSP/F-89 & IS 5182 (Pari V) a	nd (Part XIV)			
	ie Quantity	1 No.				
	ment used for Sampling	RDS Sampler \$.Mo-2610-DTI-2019				
	sis Started on	01.09.2024				
	sis Completed on	07.08.2024				
	pamental Condition Ve II vidity	65%				
	ost Temperatare	32"C				
	Direction	SW				
Weath	er Condition	Clear Sky				
<u>Test R</u> The ab	<u>esuits:</u> We sample tested as received, and res	uire are as falloura.				
	uve sample tested as eccircle, and as	SHILS OF C OF LUININGS.				
ŚĽMO		WETHODS	Cinditis	RESULTS	NAAQS'	
\$LИ0 I			Clearns µg/m²	RESULTS 361	NA.AQS' 60	
	PARAMETERS	METHODS				
I	PARAMETERS PARTICULATE MATTER (PM25)	06TH0DS 15 \$ 182 Part 24 - 20*9	µg/m²	361	60	
1	PARAMETERS PARTICULATE MATTER (PM _{2.5}) PARTICULATE MATTER (PM ₄₆) SULPHUR DIOXIDE (SO ₂) OXIDES OF NITROGEN (MO ₂)	06THODS 15 \$182 Part 24 - 2049 15 \$182 Part 23 - 2006 (R.2017)	µg/m² µg/m²	361 74,0	60 100	
1	PARAMETERS PARTICULATE MATTER (PM25) PARTICULATE MATTER (PM36) SVLPHUR DIOXIDE (SO2)	WETHODS IS \$182 Part 24 - 2049 IS \$182 Part 23 - 2006 (R.2017) IS \$182 Part 2 - 2001 (R.2017)	µg/m² pg/m² µg/m²	361 740 142	60 100 80	
1 2 3 4	PARAMETERS PARTICULATE MATTER (PM _{2.5}) PARTICULATE MATTER (PM ₄₆) SULPHUR DIOXIDE (SO ₂) OXIDES OF NITROGEN (MO ₂)	WETHODS 15 \$182 Part 24 - 2049 15 \$182 Part 23 - 2006 (R.2017) 1\$ \$182 Part 2 - 2001 (R.2017) 1\$ \$182 Part 6 - 2006 (R.2017)	μg/m ³ μg/m ³ μg/m ³ μg/m ⁵	361 74.0 142 265	60 100 80 80	
1 2 3 4 \$	PARAMETERS PARTICULATE MATTER (PM _{2.5}) PARTICULATE MATTER (PM ₄₆) SULPHUR DIOXIDE (\$0 ₂) OXIDES OF NITROGEN (NO ₂) OZONE (O ₁)	WETHODS IS \$182 Part 24 - 20*9 IS \$182 Part 23 - 2006 (R.2017) IS \$182 Part 2 - 2001 (R.2017) IS \$182 Part 6 - 2006 (R.2017) IS \$182 Part 6 - 2006 (R.2017) CTL/SOP/A(N/08 - 2016)	មនូ/៣ ³ ២៩/៣ ³ មនូ/៣ ³ មនូ/៣ ³	361 74,0 142 265 37.5	60 100 80 80 180	
1 2 3 4 5 6	PARAMETERS PARTICULATE MATTER (PM _{2.5}) PARTICULATE MATTER (PM _{4.6}) SULPHUR DIOXIDE (SO ₂) OXIDES OF NITROGEN (MO ₂) OZONE (O ₁) LEAD (PD) CARBON MONOXIDE (CO) AMMONIA (MH ₄)	METHODS IS \$182 Part 24 · 2049 IS \$182 Part 23 · 2006 (R.2017) IS \$182 Part 6 · 2006 (R.2017) IS \$182 Part 6 · 2006 (R.2017) CTL/SOP/A(8/08 · 2016) IS \$182 Part 72 · 2004 (R.2019)	μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³	361 74.0 142 265 37.5 80L(0L:0.1)	60 100 80 80 180 1	
1 2 3 4 5 6 7	PARAMETERS PARTICULATE MATTER (PM _{2.5}) PARTICULATE MATTER (PM _{4.6}) SULPHUR DIOXIDE (SO ₂) OXIDES OF NITROGEN (NO ₂) OZONE (O ₁) LEAD (PD) CARBON MONOXIDE (CO)	WETHODS 15 \$182 Part 24 · 20*9 18 \$182 Part 23 · 2006 (R.2017) 18 \$182 Part 2 · 2001 (R.2017) 18 \$182 Part 6 - 2006 (R.2017) 18 \$182 Part 6 - 2006 (R.2017) CTL/SOP/A(8)/08 - 2016 18 \$182 Part 22 · 2004 (R.2019) CTL/SOP/A(8/23 - 2016)	មនូ/៣ ³ ទុក្ខ/៣ ³ មន្ត/៣ ³ មន្ត/៣ ³ មន្ត/៣ ³ ៣g/៣ ³	361 74.0 142 265 37.5 8DL(DL:0.1) 8DL(DL:0.1)	60 100 80 80 180 1 4	
1 2 3 4 5 6 7 8 9	PARAMETERS PARTICULATE MATTER (PM _{2.5}) PARTICULATE MATTER (PM _{4.6}) SULPHUR DIOXIDE (SO ₂) OXIDES OF NITROGEN (MO ₂) OZONE (O ₁) LEAD (PD) CARBON MONOXIDE (CO) AMMONIA (MH ₄)	WETHODS 15 \$182 Part 24 - 20*7 15 \$182 Part 23 - 2006 (R.2017) 1\$ \$182 Part 2 - 2001 (R.2017) 1\$ \$182 Part 6 - 2006 (R.2017) 1\$ \$182 Part 6 - 2006 (R.2017) CTL/SOP/A(8/08 - 2016) 1\$ \$182 Part 22 - 2004 (R.2019) CTL/SOP/A(8/23 - 2016) 1\$ \$182 Part 25 - 2018	μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³	361 74.0 142 265 37.5 80L(0L:0.1) 80L(0L:0.1) 80L(0L:1.15) 283	60 100 80 80 180 1 4 400	
1 2 3 4 5 6 7 8 9	PARAMETERS PARTICULATE MATTER (PM25) PARTICULATE MATTER (PM25) SULPHUR DIOXIDE (SO2) OXIDES OF NITROGEN (NO2) OZONE (O1) LEAD (PD) CARBON MONOXIDE (CO) AMMONIA (NH2) APPPMIC (AS)	METHODS IS \$182 Part 24 - 2049 IS \$182 Part 23 - 2006 (R.2017) IS \$182 Part 6 - 2006 (R.2017) IS \$182 Part 6 - 2006 (R.2017) CTL/SOP/A(8)/08 - 2016 IS \$182 Part 25 - 2018 CTL/SOP/AIR/06 - 2016	μg/m³ μg/m² μg/m² μg/m³ μg/m³ μg/m³ μg/m³ μg/m³ μg/m³ μg/m³ μg/m³	361 74.0 142 265 37.5 80L(0L:0.1) 80L(0L:0.1) 283 90L(0L:1.0)	60 100 80 80 180 1 4 400 6	
1 2 3 4 5 6 7 8 9 9 10	PARAMETERS PARTICULATE MATTER (PM25) PARTICULATE MATTER (PM25) PARTICULATE MATTER (PM25) SULPHUR DJOXIDE (SO2) OXIDES OF NITROGEN (NO2) OZONE (O1) LEAD (PD) CARBON MONOXIDE (GO) AMMONIA (MM2) AP*PNIC (AS) NICKEL (NI)	WETHODS 15 \$182 Part 24 - 20*9 18 \$182 Part 23 - 2006 (R.2017) 18 \$182 Part 2 - 2001 (R.2017) 18 \$182 Part 6 - 2006 (R.2017) 18 \$182 Part 6 - 2006 (R.2017) CTL/SOP/A(8/08 - 2016) 18 \$182 Part 25 - 2004 (R.2019) CTL/SOP/A(8/23 - 2016) 18 \$182 Part 25 - 2018 CTL/SOP/A(R/06 - 2016) 18 \$182 Part 26 - 2020	μg/m² μg/m²	361 74.0 142 265 37.5 80L(0L:0.1) 9DL(0L:0.1) 283 9DL(0L:1.0) 8DL(0L:5.0)	60) 100 80 80 180 1 4 400 6 20	

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Test Report No & Date

TEST REPORT

CTL/CH/N-26944/2024-25 & 07.08.2024

SLIND	PARAMETERS	METHÓDS	UNITS	RESULTS	NAAQ5*
14	MBRCURY (Hg)	CTL/SOP/AIR/25-2016	µg/m*	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(6) dated 16, L1 2009

BD1 - Below Detection Linvib(D.L - Detection Limit)

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G. MANIKANDAN Head - Environment Division (CHEMICAL)

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TEST REPORT

Test Report No & Data CTL/CH/N-26950/2024-25 & 07 08:2024					
	ole Number	N-26950/24-25			
Name of the Gustomer M/S. TAMIL NADU NEWSPRINT AND PAPERS LINITED - UNIT II,					
Addr	e\$5	Mondipatti Village, K.Penyapatti Pe	st, Manapparal T	aluit,	
		Trichy District - 621 306, Tama Na	d u.		
	le Drawn by	Laboratory			
	le Nane	AmbiencAir			
-	fe Description	Amblent Air Quality Monitoring			
-	fing Location	GUEST HOUSE			
-	te Dranvn un le Received on	30.07.2024 & 09 10 to 31.07.2024 &	2 09.10		
-	ling Plan & Procedure	01 08/2024 271 - 260 220 26 26 26 26 26 26 26 26 26 26 26 26 26			
	le Quantity	CTL/QSP/F-89 & IS STB2 (Part V) & 1 No	od (Part XIV)		
•	ment used for Sampling	RUS Sampler S.No:2613-DTI-2019			
	sis Storted on	01.08.2024			
-	sis Completed on	07.08.2024			
Envir	parantal Condition				
	ve Hamidity	6176			
	nt Temperature	34°C			
	Direction er Condition	SW			
	esubs-	Clear Sky			
	owe sample rester as received, and re-	inits are as follows:			
SLNO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS'
SLNO I	PARAMETERS Particulate matter (PM _{2.5})	······································	UNITS Pg/m ³	RESULTS 27.6	NAAQS' 60
		METHODS		·	
ı	PARTICULATE MATTER (PM _{2.5})	METHODS IS 5182 Part 24 - 2019	ug/m ²	27.6	60
1 2	PARTICULATE MATTER (PM _{2.5}) Particulate Matter (PM _{.4})	METHODS IS 5182 Part 24 - 2019 IS 5182 Part 23 - 2006 (R.2017)	иg/m ³ нд/m ³	27.6	60
1 2 3	PARTICULATE MATTER (PM _{2.5}) PARTICULATE MATTER (PM _{.4}) SULPHUR DIOXIDE (SU ₂)	METHODS IS 5182 Part 24 - 2019 IS 5182 Part 23 - 2006 (R.2017) IS 5182 Part 2 - 2001 (R.2017)	иg/m ³ мg/m ³	27.6 669 125	60 100 80
1 2 3 4	PARTICULATE MATTER (PM _{2.5}) PARTICULATE MATTER (PM _{.4}) SULPHUR DIOXIDE (SO ₂) OXIDES OF NITROGEN (NO ₇)	METHODS IS 5182 Part 24 - 2019 IS 5182 Part 23 - 2006 (R.2017) IS 5182 Part 2 - 2001 (R.2017) IS 5182 Part 6 - 2006 (R.2017)	μg/m ³ μg/m ³	27.6 669 125 23.6	60 100 80 80
1 2 3 4 5	PARTICULATE MATTER (PM _{2.5}) PARTICULATE MATTER (PM _{2.6}) SULPHUR DIOXIDE (SU ₂) OXIDES OF NITROGEN (NO ₇) OZON/E (O ₂)	METHODS IS 5182 Part 24 · 2019 IS 5182 Part 23 · 2006 (R.2017) IS 5182 Part 2 · 2001 (R.2017) IS 5182 Part 6 · 2006 (R.2017) IS 5182 Part 6 · 2006 (R.2017) CTU/SOP/AIR/08 · 2016	۲۵۲/m ³ ۲۹۲/m ³ ۲۹۲/m ³	27.6 669 125 23.6 77.5	60 100 80 80 180
1 2 3 4 5	PARTICULATE MATTER (PM _{2.5}) PARTICULATE MATTER (PM _{2.5}) SULPHUR DIOXIDE (SU ₂) OXIDES OF NITROGEN (NO ₇) OZONE (O ₂) LEAD (Pb)	METHODS IS 5182 Part 24 · 2019 IS 5182 Part 23 · 2006 (R.2017) IS 5182 Part 2 · 2001 (R.2017) IS 5182 Part 6 · 2006 (R.2017) CTU/SOP/AIR/08 · 2016 IS 5182 PART 72 · 2004 (R.2019)	μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³	27.6 66 9 12.5 23.6 27.5 BDL(DL:0.1)	60 100 80 80 180 180
1 2 3 4 5 6 7	PARTICULATE MATTER (PM _{2.5}) PARTICULATE MATTER (PM _{2.5}) SULPHUR DIOXIDE (SU ₂) OXIDES OF NITROGEN (NO ₇) OZONE (O ₂) LEAD (Pb) CARBON MONOXIDE (CO)	METHODS IS 5182 Part 24 · 2019 IS 5182 Part 23 · 2006 (R.2017) IS 5182 Part 2 · 2001 (R.2017) IS 5182 Part 6 · 2006 (R.2017) IS 5182 Part 6 · 2006 (R.2017) CTL/SOP/AIR/08 · 2016 IS 5182 PART 72 · 2004 (R.2019) CTL/SOP/AIR/23 - 2016	иg/m ³ µg/m ³ µg/m ³ µg/m ³ µg/m ³	27.6 66 9 125 23.6 77.5 BDL(DL:0.1) BDL(DL:1.15)	60 100 80 80 180 1 4
1 2 3 4 5 6 7 7 8	PARTICULATE MATTER (PM _{2.5}) PARTICULATE MATTER (PM _{2.5}) SULPHUR DIOXIDE (SU ₂) OXIDES OF NITROGEN (NO ₇) OZONE (O ₂) LEAD (Pb) CARBON MONOXIDE (CO) AMMONIA (MH ₂)	METHODS IS 5182 Part 24 · 2019 IS 5182 Part 23 · 2006 (R.2017) IS 5182 Part 2 · 2001 (R.2017) IS 5182 Part 6 · 2006 (R.2017) IS 5182 Part 6 · 2006 (R.2017) CTU/SOP/AIR/08 · 2016 IS 5182 PART 72 · 2004 (R.2019) CTL/SOP/AIR/23 - 2016 75 5182 Part 25 · 2018	۲۵۲/m ³ ۲۹۲/m ³ ۲۹۲/m ³ ۲۹۶/m ³ ۲۹۶/m ³ ۲۹۶/m ³	27.6 66 9 12.5 23.6 77.5 BDL(DL:0.1) BDL(DL:1.15) 19.6	60 100 80 80 180 1 1 4 400
1 2 3 4 5 6 7 7 8 9 10	PARTICULATE MATTER (PM _{2.5}) PARTICULATE MATTER (PM _{2.5}) SULPHUR DIOXIDE (SU ₂) OXIDES OF NITROGEN (NO ₇) OZONE (O ₂) LEAD (Pb) CARBON MONOXIDE (OO) AMMUNIA (MH ₂) ARSENIC (As)	METHODS IS 5182 Part 24 · 2019 IS 5182 Part 23 · 2006 (R.2017) IS 5182 Part 2 · 2001 (R.2017) IS 5182 Part 6 · 2006 (R.2017) CTL/SOP/AIR/08 · 2016 IS 5182 Part 2 · 2004 (R.2019) CTL/SOP/AIR/23 - 2016 YS 5182 Part 25 · 2018 CTL/SOP/AIR/06 - 2016	بو/m ³ بور/m ³ بور/m ³ بور/m ³ بور/m ³ بور/m ³ بور/m ¹	27.6 66 9 12.5 23.6 77.5 BDL(DL:0.1) BDL(DL:0.1) BDL(DL:1.35) 19.6 BDL(DL:1.0)	60 100 80 80 180 1 1 4 400 6
1 2 3 4 5 6 7 7 8 9 10 11	PARTICULATE MATTER (PM _{2.5}) PARTICULATE MATTER (PM _{2.5}) SULPHUR DIOXIDE (SU ₂) OXIDES OF NITROGEN (NO ₇) OZONE (O ₂) LEAD (Pb) CARBON MONOXIDE (CO) AMMUNIA (PH ₂) ARSENIC (As) NJCKEL (NI)	METHODS IS 5182 Part 24 · 2019 IS 5182 Part 23 · 2006 (R.2017) IS 5182 Part 2 · 2001 (R.2017) IS 5182 Part 2 · 2006 (R.2017) IS 5182 Part 6 · 2006 (R.2017) CTL/SOP/AIR/08 · 2016 IS 5182 Part 72 · 2004 (R.2019) CTL/SOP/AIR/23 - 2016 YS 5182 Part 25 · 2018 CTL/SOP/AIR/06 - 2016 IS 5182 Part 26 · 2020	۲۲۵٬۰۳۰ ۲۳۵٬۰۳۰ ۲۳۵٬۰۳۰ ۲۳۵٬۰۳۰ ۲۳۵٬۰۳۰ ۲۳۵٬۰۳۰ ۲۳۵٬۰۳۰ ۲۳۵٬۰۳۰	27.6 66 9 12.5 23.6 77.5 BDL(DL:0.1) BDL(DL:0.1) BDL(DL:1.15) 19.6 BDL(DL:1.0) BDL(DL:5.0)	60 100 80 80 180 180 1 4 400 6 20

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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 R	eport Na & Date	CT1./CH/N-26950/2024-25 & 07.08.2024			
SLND	PARAMETERS	METHÓQS	UNITS	RESULTS	NAAQS"
14	NERCURY (Hg)	CTL/SOP/AIR/25-2016	цg/пч ³	BDL(D1:001)	-

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Porests, Covernment of India vide Gazette Motification G.S.R. 626(E) dated 18.11.2009.

BDL · Below Detection Limit(D1 · Detection Limit)

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Page 2 of 2

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TEST REPORT

Test Report No & Date	CTL/CH/N-2694B/2024-25 & 07.08.2024		
Sample Nomber	N-26948/24-25		
Name of the Customer	M/S. TAMIL NADU NEWSPIUNT AND PAPERS LIMITED - UNIT D.		
Address	Mondipatti Village. K.Periyapatti Post, Manapparai Taluk,		
	Trichy District - 621 306, Tamil Nadu.		
Sample Drawn by	Laboratory		
Sample Name	Ambiont Avr		
Sample Description	Ambient Air Quality Monitoring		
Sampling Location	THIRU, KANDASAMY HOUSE, PONGUDIPATTI (6 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-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 12-12 addity	65%		
Ambient Temperature	32°C		
Wind Direction	SW		
Weather Condition	Clear Sky		
<u>Tesh Results:</u> The above sample tested as received, and			

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

SI_NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	18 5 182 Part 24 - 2019	µg/m²	27.6	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m [‡]	60.3	100
3	SVLPHUR DIÓXIDE (SO2)	IS 5162 Port 2 - 2001 (8 2017)	µg,/mj3	92	80
4	OXIDES OF MITROGEN (NO2)	15 5182 Part 6 - 2006 (8.2017)	Ag/m ²	185	80
5	DMONE (D ₂)	CTL/SOP/AIR/08 - 2006	48/m ³	294	180
6	LEAD (25)	15 5102 (MRT 22 - 2004 (R.2019)	44C/10 ²	DDL(DL:AT)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	₽¢/m²	804(0L-115)	4
0	AMMONIA (NB ₂)	15 5102 Par< 25 - 2018	rg/m ¹	14.6	400
9	APCCINE (AS)	CTL/SOP/AIR/06-2016	Mg/m ³	BOL(01:1-0)	6
10	NICKEL (NI)	15 5 182 Part 26 - 2020	ng/m ²	RDL(DL:S.0)	20
11	BENZENE (C.H.)	IS 5182 PART11 - 2006 (R-2017)	µg/m³	BOC(0C:1.0)	5
12	BENZÓ(a)PVRENE	IS \$162 PART 12 - 2004 (R.2019)	ng/m ^a	BDL(DL:0.5)	1
13	IIVDROGEN SULPHIDE(II;S)	1\$ \$182 PART 07 - 2021	μ <u>κ</u> /m ³	BDL(DL.c.0)	

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A - Super 19, TV.K. Industrial Estate, Guindy, Chennai - 600 032. Tamil Nadu - Iodia

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Test Report No & Date

TEST REPORT

CTL/CH/N-26948/2024-25 & 07.08.2024

SL.ND	PARAPTERS	NETHODS	YNIT\$	RESULTS	NAAQ5*
14	MBRCURY (Mg)	CTL/SOP/AIR/25-2016	н8%ш,,	BDL(DL3001)	

*National Amblent Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification GSB. 826(B) dated 18 L1.2009

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

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G. MANIKANDAN Head - Environment Division (CHEMICAL)

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TEST REPORT

Test R	eport No & Date	CTL/CH/N-26946/2024-25 & 07	.08.2024			
Səmpl	le Number	N-26946/24-25				
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT IL						
Addre		Mondipatti Village, K.Penyapatu Po	isr, Manapparai Tal	uk.		
		Trichy District - 621 306, Tanal Nac	du.			
Sampl	e Draww by	Laboratory				
Sampl	e Name	Anabioer Air				
-	e Description	Ambient Air Quality Monitoring				
	ing Location	110KVA SUB-STATION (RIGHTS		VAY)		
	е Фланки он	29.07.2024 & 10.10 to 30.07.2024 &	L 10.1 0			
-	e Received on	01.00.2024				
	ing Plan & Procedure	CTL/QSP/F-09 & IS \$182 (Part V) a	nd (Part XIV)			
-	e Quantity	1 No				
	ment used for Sampling	RDS Samplor S.No:2000-DTC-2016				
	sis Started on	01.00.2024				
	sis Completed on Homental Condition	07.00.2024				
	e l? addity	65%				
	nx Temperature	32°C				
	Direction	SW/				
A's ath	er Condition	Clear Sky				
	etaliti:					
lbe abo	we sample tested as received, and res	ults are as follows:				
SL-NO	PARAMETERS	METHOD\$	UNITS	RESULTS	NAAQS*	
1	PARTICULATE MATTER (PH ₂₅)	15 5 182 Part 24 - 2019	µg,∕m²	36.2	90	
2	PARTICULATE MATTER (PM10)	(\$ \$182 Part 23 - 2006 (R-2017)	µg,∕on [‡]	76.4	100	
3	SULPHUR DIOXIDE (SO ₂)	(\$\$162 Part 2 - 2001 (8.2017)	μ g/m 3	15.0	60	
4	OXIDES OF NITROGEN (NO ₂)	IS \$162 Part 6 - 2006 (R.2017)	ug/m ³	31.0	80	
5	070NP (0,)	CTL/SOP/AIR/08 - 2016	M\$/tm3	2097	180	
6	LEAD (Pb)	IŞ Ş[82 PART 22 - 2004 (R.2019)	ug/m ²	BDL(DL:0.1)	Ĺ	
			1			
7	CARBON MONOXIDE (CI)	CTL/SOP/AJ8/23 - 2016	me/m ³	BD1(DL:1.15)	4	
	CARBON MONOXIDE (CO) Ammonia (NH2)	CTL/SOP/AJR/23 = 2016 IS 5362 Part 25 - 2018	me/m*	801(01:1.15) 35:2	400	

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NICKEL (Ni)

BENZÊNÊ (C_eH_e)

BEN20(a)PYRENE

HVDROGEN SULPHEDE(H2S]

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BDL(0L:5.0)

BOL(DL:1.0)

BIL(IH.:0.5)

BDL(DL-40)

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IS 5182 Part 26 - 2020

IS \$182 PART 11 - 2006 (R.2017)

IS \$182 PART 12 - 2004 (R 2019)

(\$ 518Z PART 07 - 2021

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TEST REPORT

Test Report No & Date		CTL/CH/N-26946/2024-25 & 07.08.2024				
SLND	PAJAMETERŠ	NETHODS	UNITS	RESULTS	NAAQS*	
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	µg/m*	RDC(NF-6461)		

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Ponests, Covernment of India vide Gazette Nonficetion G.S.R. 824(E) dated 18.1 (2009).

BDL - Below Detection Limit(O.L - Detecnor Limit)

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G. MANIKANDAN Head - Environment Division (CHEMICAL)

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TEST REPORT

	eport No & Date e Nomber	CTL/CH/N-26947/2024-25 & 07. N-26947/24-25	08.2024			
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,						
Addre	6 5	Mondiparti Village, K.Periyapatti Pos	st. Manapparal Ta	duit,		
		Trichy District - 621 306, Tamil Nad	v			
Sampi	e Drawn by	Laboratory				
Sampl	е Натие	Amblent Am				
Sampi	e Description	Ambient Air Quality Monitoring				
Sampi	ing Location	WEST ENTRANCE GATE (RIGHT SI FRON COMPOUND WALL)		AWAY FROM THE GATI	E 10 METERS	
	e (irawa de	29.07.2024 & 09.55 to 30 07 2024 &	209.55			
-	e Received on	01 08 2024				
-	ing Plan & Procedure	CTL/QSP/F-89 & IS \$182 (Part V) ar	nd (Part XIV)			
-	e Quantity continued for Complian	1 No RDS Sampler SNo:2611-DTI-2019				
	ment used for Sampling is Started on	01 08.2024				
	tis Completed on	07 08.2024				
	mmental Condition	B. 111.2021				
	e Humidity	65%				
	nt Temperatura	32°C				
	Nrection	SW				
	er Condition	Clear Sky				
<u>Test Re</u> The sto	example tested as recoved, and res	ults are as follows:				
SLNO		NETHODS	UNITS	RESULTS	NAAQ5"	
1	PARTICULATE MATTER (PM14)	IS 5182 Part 24 - 2019	µg/m³	32.4	60	
2	PARTICULATE MATTER (PM10)	IS 5182 Part 23 - 2006 (9.2017)	ug/m²	67.Z	100	
3	SULPHUR DIOXIDE (SO ₂)	US 5182 Part 2 - 2001 (R.2017)	65 /m ⁹	13.8	80	
ŧ	OXIDES OF MITROGEN (NO2)	(\$ 5182 Part 6 - 2006 (R.2017)	46/ m ⁷	24.6	80	
5	OZONE (O ₃)	CTL/SDP/AIR/08 - 2016	Mg/m ³	34.5	180	
Ģ	LEAD (Pb)	IS 5182 PART 22 2004 (R.2019)	ng/m	80L(DL-0.1)	1	
7	CARBON MOHOXIDE (CO)	CTL/SDP/AIR/23 - 2016	neg/m*	BDL(0L-1.15)	4	
â	Ali Honda (NH5)	IS 5187 Part 25 - 2018	vg/m ³	261	400	
9	ARSENIC (As)	UTL/SUP/AIK/06 - 2016	ng/m*	BOL(OL:1.0)	ь	
10	NICKEL(NI)	IS 5182 Paint 26 - 2020	ng/m ⁸	BDL(DL:S.O)	20	
11	RENZENE (C4H4)	IS 5182 PART 11 - 2006 (R.2017)	իեւայ	BPL(PL:1.0)	\$	
12	BEHZO(A)PYRENE	15 5182 PART 12 - 2004 (R.2019)		DDL(DL:0.5)	L	
13	HYDROGEN SULPHIDE(H2S)	JS \$162 PART 07 - 2021	μg/m³	RDL(DL.6.0)		

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For Chennal Testing Laboratory Pvt Ltd.

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Authorised Secondary G. MANKANDAN Tago Iveí∆ Head - Environment Division (CHEMICAL)

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TEST REPORT

Test Report No & Date		CTL/CH/N-26947/2024-25 & 07.08.2024			
SLNO	PARAMETERS	METRODS	WHITS	RESULTS	ХАЛЦ5*
14	MERCURY (Hg)	CTL/\$0#/AIR/25-2016	µg/m³	BDL(DL:0.01)	-

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

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

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Page 2 of 2

G. MANIKANDAN Head - Environment Drasion (CHEMICAL)

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TEST REPORT

Semple	eport No & Date e Number of the Customor ss	CTL/CH/N·26952/2024-25 & 07.0 N·26952/24-25 M/S TAMII. NADU NEWSPRINT AI Mondiparti Village, K Perlyaparti Pos Tylchy District · 621 306. Tomil Nad	N D PAPERS LIMIT at, Manapparal Tali			
Sampl	e Drawn by	Laboratory				
	e Name	Amblent Air				
-	e Description	Ambient Air Quality Monitoring MALAYA GOUNDER HOUSE, PÉRIY	ADDATI VILLACE			
-	ing Location	30.07.2024 & 09.40 to 31.07.2024 8				
-	e Drawa on e Received on	01.06 2024				
	ing Plan & Frocedure	CTL/QSP/F-89 & IS 5182 (Part V) at	nd (Part XIV)			
	e Quantity	1 No	•			
	ment used for Samphing	RDS Sampler S.No:Z610-D71-2019				
	is Started on	01.08.2024				
	is Completed on	07.08.2024				
	mmental Condition					
	e Humidity	61%6 34°C				
	nt Temperature Direction	SW SW				
	er Conditión	Clear 5ky				
Text Re	esuites we sample lested as received, and res	- Be and an fallence:				
SLNO		METHODS	ŲN(TS	AFSULTS	HAAQS*	
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m³	20.8	60	
2	PARTICULATE MATTER (PM ₁₄)	IS \$192 Part 23 - 2006 (R.2017)	ng/m ³	51.7	100	
3	SULPHUR DIOXIDE (SO ₁)	IS \$192 Part 2 - 2001 (R.2017)	yg/m²	6.4		
4	OXIDES OF NITROGEN (NO1)	LS 5182 Part 6 - 2006 (R.2017)	µg/m²	13.2	во	
5	020NE (O1)	CTL/SOF/AIR/08 - 2016	μg/m ³	19.5	180	
6	· · · · · · · · · · · · · · · · · · ·					
	LEAD (Pb)	IS 5182 PART 22 - 2004 (R 2019)	µg/m²	BLAC(LAC:0.1)		
7	LEAD (Pb) CARBON NONOXIDE (CO)	IS 5182 PART 22 - 2004 (R 2019) CTL/SOP/AJR/23 - 2016	<u> </u>	BDL(DL-1-15)	4	
		,	mg/m ³		-	
7	CARBON MONOXIDE (CO)	CTL/SOP/AJR/23 - 2016	mg/m ³	BDL(DL-1-15)	4	
7 8 9	CARBON MONOXIDE (CO) A:ONIA (NH ₂)	CTL/SOP/AJR/23 - 2016 IS \$182 Part 25 - 2018	mg/m ³	BDL(DL-1-15) 10.5	400	
7 8 9	CARBON MOROXIDE (CO) A.:- «ONIA (NH ₂) ARSENIC (Ar)	CTL/SOP/AJR/23 - 2016 IS \$182 Part 25 - 2018 CTL/SOP/AJR/06 - 2016	mg/m ³ ug/m ³	BDL(DL-1-15) 10.5 BDL(DL-1.0)	4 400 6	
7 8 9 10	CARBON MOHOXIDE (CO) A:ONIA (NH ₂) ARSENIC (Ar) MICKEL (NI)	CTL/SOP/AJR/23 - 2016 IS \$182 Part 25 - 2018 CTL/SOP/AIR/06 - 2016 IS \$182 Part 26 - 2020	mg/m ³ µg/m ³ xg/m ³	BDL(DL-1-15) 10.5 BDL(DL-1.0) BDL(DL-5.0)	4 400 6 70	

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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 No & Date

TEST REPORT

CTL/CH/N-26952/2024-25 & 07.08.2024

SLNO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQ5"
14	MERCORY (Hg)	CTL/50P/AIR/25-2016	85/m [°]	BDL(DL-0-01)	-

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Porests, Covernment of India vide Gazette Notification G.S.R. 826(E) dated 18.11 2009.

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

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TEST REPORT

Test R	eport No & Date	CTL/CH/N-26951/2024-25 & 07.08.2024						
Sampl	e Number	N-26951/24-25						
Name	Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT 11,							
Addre	\$5	Mondipatti Village. K.Periyapatti Po	ist, Manapparai Tal	luik,				
		Trichy District - 621 306, Tamil Nac	tu.					
Sampa	e Drawo by	Laboratory		_				
Sampl	e Name	Ambient Air						
Şaraşı	e Description	Ambient Air Quality Nonitoring						
Sampl	ing Location	SHANMUGAM, PAD(ERIPATTI						
Sampl	• Drawn on	30.07.2024 & 09.35 to 31.07.2024 &	£ 09.35					
Sample	e Received on	01.08.2024						
Sampl	ing Plan & Procedure	CTL/QSP/F-89 & IS \$102 (Part V) a	nd (Part XIV)					
Sampli	е Quantity	1 20	1346					
Equip	new used for Sampling	RDS 5eanplear S.No: 2613-DTI-2019 01.08.2024						
Analys	is Started on							
	is Completed on	07.08.2024						
	amental Condition							
•	e Humidity	6196						
	и Темпретасите	34°C						
	Frection	SW						
	er Candition	Clear Sky						
<u>Tesi ke</u> The she	sants: ve sample tested as received, and te	ondino nano na Pollonno-						
SL N0		METHODS	UNITS	RESULTS				
50, 190	PARAMETERS	METHODS		RESULTS	NAAQS"			
1	PARTICULATE MATTER (PM23)	IS 5182 Part 24 - 2019	µg/m²	19.\$	60			
2	PARTICULATE MATTER (PM 14)	IS 5162 Part 23 - 2006 (R.2017)	µg/m²	46-0	100			
3	SULPHUR DIOXIDE (SO2)	(\$ \$ [82 Part 2 - 200] (R.2017)	₩ 5 /œ³	6.4	8 0			
4	OXIDES OF NITROGEN (NO ₂)	IS \$182 Part 6 - 2006 (R. 2017)	µg∕œ ³	12-0	80			

µg/m³

µg/m³

mg/m³

H\$/m²

ng/m³

Pg/m²

µg/m*

ng/m[‡]

μg/m²

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CZONE (0,)

LEAD (Pb)

AMMONIA (NH₂)

ARSENIC (As)

NICKEL (NI)

BENZENE (C2H2)

BENZO(a)PYRENE

RYDROGEN SULPHIDE(H₂\$)

CARBON MONOXIDE (CO)

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CTL/\$0P/AIR/09 - 2016

IS 5182 PART 22 - 2004 (R.2019)

CTL/SOP/AIR/23 - 2016

13 5 182 Part 25 - 2018

CTL/SOP/AIR/06 - 2016

IS 5182 Part 26 - 2020

IS 5182 PART 11 - 2006 (R.2017)

IS 5182 PART 12 - 2004 (R.2019)

(\$ \$162 PART 07 - 202)

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TEST REPORT

Test Report No & Data		СП./СН/N-26951/2024-25 & 07	.08.2024		
SL.MO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
14	MERCURY (Hg)	CTL/SOP/AI8/25-2016	⊮⊈/ ™ ⁴	BDL(DL:0:01)	-

"National Amhient Air Quality Standards prescribed by Ministry of Elevronment and Porests, Government of Endia vide Gazette Notification G.S.R. 826(E) dated 18.11 2009.

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

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TEST REPORT

Testik	eport No & Date	CTL/CH/N-26949/2024-25 & 07.0	08.2024				
Sampl	e Number	N-26949/24-25					
Name	of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,					
Addre	55	Mondipatti Village, K.Periyapatti Pos	st, Manapparal Tal	lak.			
		Trichy District · 621 306, Tamil Nad	u				
Sempl	e Drawn by	Laboratory					
•	e Name	Ambient Air					
•	e Description	Ambient Air Quality Monitoring					
•	ing Location	ARUMUCAM GOUNDER, PODUVAR					
-	e Drawn on	29.07,2024 & 00.35 to 30.07.2024 &	08.35				
-	e Received on	01.00.2024	d (Deet VIU)				
	ing Plan & Protedure e Quantity	CTL/QSP/F-89 & IS 5182 (Part V) at 1 No	io (rati Ara)				
	e quantused for Sampling	RDS Sampler S.No:2000-DTC-2016					
	is Started on	01.08.2024					
-	is Completed on	07.08.2024					
	nnestal Condition						
	e Dunidity	65%					
	nt Temperature	32*C					
	-						
Wind D	hrection	SW					
Wind D Weathe	prection ex Condition						
Vind D Veathe Lest Re	prection ex Condition	SW Clear Sky					
Vind D Veatha Iest Re The abo	brection er Condition sulta:	SW Clear Sky	UNITS	RESULTS	NAAQS*		
Vind D Veatha Iest Re The abo	Greenion ex Condition suites we sample tested as received, and res	SW Clear Sky suits aré as follows:	UNITS PB/m ²	RESULTS 18.2	NAAQS* 60		
Vind D Veatha <u>Te abo</u> SLNO	Prection e) Condition <u>suits:</u> we sample tested as received, and res PARAMETERS	SW Clear Sky auks are as follows: METHODS					
Vind D Veatha <u>Te abo</u> SLNO	Prection Exits: We sample tested as received, and res PARAMETERS PARTICULATE MATTER (PM _{2.5})	SW Clear Sky auks are as follows: METHODS US 5182 Part 24 - 2019	µg/m ³	18.2	60		
Wind D Weathe Teat Re The abo SLINO 1	Prection ex Condition <u>suits:</u> we sample tested as received, and res PARAMETERS PARTICULATE MATTER (PM ₁₀)	SW Clear Sky auts are as follows: METHODS US 5182 Part 24 - 2019 IS 5182 Part 23 - 2006 (R.2017)	µg/m ^{>}	18.2	50 100		
Vind D Veatho Gest Re The abo SLINO 1 2 3	Prection ex Condition <u>suits:</u> we sample tested as received, and res PARAMETERS PARTICULATE MATTER (PM ₂₃) PARTICULATE MATTER (PM ₁₀) SULPHUR DIOXIDE (SO ₂)	SW Clear Sky auks are as follows: US 5182 Part 24 - 2019 US 5182 Part 23 - 2006 (R.2017) US 5182 Part 2 - 2001 (R.2017)	μg/m ³ μg/m ³	18.2 40.0 5.7	60 100 20		
Wind D Weathe <u>last Re</u> <u>last Re}</u> <u>last Re}</u> R}	Derection ex Condition sults: we sample tested as received, and res PARAMETERS PARTICULATE MATTER (PM _{2.5}) PARTICULATE MATTER (PM ₁₀) SULPHUR DIOXIDE (SO ₂) OXIDES OF NITROGEM (NO ₂)	SW Clear Sky auks are as follows: METHODS US 5182 Part 24 - 2019 IS 5182 Part 23 - 2006 (R.2017) IS 5182 Part 2 - 2001 (R.2017) IS 5182 Part 6 - 2006 (R.2017)	µg/m ³ µg/m ³ µg/m ³	18.2 40.0 5.7 9.6	20 100 20 80		
Alind D Aleathe <u>Feet Re</u> SLINO 1 2 3 4 5	Prection ex Condition sults: we sample tested as received, and res PARTICULATE MATTER (PM _{2.5}) PARTICULATE MATTER (PM ₁₀) SULPHUR DIOXIDE (SO ₂) OXIDES OF NITROGEN (NO ₂) OXIDES OF NITROGEN (NO ₂)	SW Clear Sky auks are as follows: US 5182 Part 24 - 2019 IS 5182 Part 23 - 2006 (R.2017) IS 5182 Part 2 - 2001 (R.2017) IS 5182 Part 6 - 2006 (R.2017) CTL/SOT/AiR/08 - 2016	pg/m ³ pg/m ³ pg/m ³ pg/m ³	182 40.0 5.7 9.6 11.2	60 100 20 80 190		
Wind D Weathe Fost Re Fost Re SLINO 1 2 3 4 5 6	Prection exits: we sample tested as received, and res PARAMETERS PARTICULATE MATTER (PM _{2.5}) PARTICULATE MATTER (PM ₁₀) SULPHUR DIOXIDE (SO ₂) OXIDES OF NITROGEN (NO ₂) OXIDES OF NITROGEN (NO ₂) OZONE (O ₃) LEAD (Pb)	SW Clear Sky auks are as follows: US 5182 Part 24 - 2019 IS 5182 Part 23 - 2006 (R.2017) IS 5182 Part 6 - 2006 (R.2017) IS 5182 Part 6 - 2006 (R.2017) CTL/SOT/AiR/08 - 2016 IS 5182 PART 22 - 2004 (R.2019)	μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³	18.2 40.0 5.7 9.6 11.2 BDL(DL-0.1)	60 100 00 80 190 1		
Avind D Aveathe <u>Rest Re</u> SLINO 1 2 3 4 5 6 7	Prection ex Condition sults: wy sample tested as received, and res PARTICULATE MATTER (PM _{2.5}) PARTICULATE MATTER (PM ₁₀) SULPHUR DIOXIDE (SO ₂) OXIDES OF NITROGEM (NO ₂) OXIDES OF NITROGEM (NO ₂) OXIDES OF NITROGEM (NO ₂) CANDEN MONOXIDE (CO)	SW Clear Sky auts are as follows: US 5182 Part 24 - 2019 IS 5182 Part 23 - 2006 (R.2017) IS 5182 Part 2 - 2006 (R.2017) IS 5182 Part 6 - 2006 (R.2017) CTL/SOP/AIR/08 - 2016 IS 5182 PART 22 - 2004 (R.2019) CTL/SOP/AIR/23 - 2016	μg/m ³ μg/m ³ μg/m ³ μg/m ³ μg/m ³ 	18.2 40,0 5.7 9.6 11.2 BDL(DL-0.1) BDL(DL:1.15)	60 100 00 80 190 1		
Avind D Aviesthe <u>Rest Re</u> SLINO 1 2 3 4 5 6 7 8 9	Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approximation Approx	SW Clear Sky auks are as follows: METHODS IS 5182 Part 24 - 2019 IS 5182 Part 23 - 2006 (R.2017) IS 5182 Part 2 - 2001 (R.2017) IS 5182 Part 6 - 2006 (R.2017) IS 5182 Part 6 - 2006 (R.2017) CTL/SOP/AiR/08 - 2016 IS 5182 PART 22 - 2004 (R.2019) CTL/SOP/AiR/23 - 2016 IS 5182 Part 25 - 2018	μg/m³	18.2 10.0 5.7 9.6 11.2 BDL(DL:0.1) BDL(DL:1.15] 8.0	60 100 00 80 100 1 1 400		
Wind D Weather Sect Re Sol NO 1 2 3 4 5 6 7 8 9	Arsenic (As) Arsenic (As) Arsenic (As)	SW Clear Sky auks are as follows: METHODS US 5182 Part 24 - 2019 US 5182 Part 23 - 2006 (R.2017) US 5182 Part 2 - 2001 (R.2017) US 5182 Part 6 - 2006 (R.2017) US 5182 Part 6 - 2006 (R.2017) US 5182 Part 6 - 2006 (R.2017) US 5182 Part 2 - 2004 (R.2019) CTL/SOP/AIR/08 - 2016 US 5182 Part 25 - 2018 CTL/SOP/AIR/06 - 2016	μg/m²	18.2 18.2 10.0 5.7 9.6 11.2 BDL(DL:0.1) BDL(DL:1.15] 8.0 BDL(DL:1.0)	60 100 00 80 100 1 1 4 400 6		
Avind D Aviesthe <u>Gest Re</u> <u>Sol NO</u> 1 2 3 4 5 5 8 9 10 11	Arsenic (As) Anterio (As) Anterio (As) Anterio (As) Anterio (As) Anterio (As) Anterio (As) Anterio (As)	SW Clear Sky auks are as follows: METHODS US 5182 Part 24 - 2019 IS 5182 Part 23 - 2006 (R.2017) IS 5182 Part 2 - 2006 (R.2017) IS 5182 Part 6 - 2006 (R.2017) CTL/SOP/AIR/08 - 2016 IS 5182 PART 22 - 2004 (R.2019) CTL/SOP/AIR/23 - 2016 IS 5182 Part 25 - 2018 CTL/SOP/AIR/06 - 2016 IS 5182 Part 26 - 2020	μg/m ³	18.2 10.0 5.7 9.6 11.2 BDL(DL-0.1) BDL(DL-1.15) 8.0 BDL(DL-1.0) BDL(DL-5.0)	60 100 200 80 100 1 1 4 400 6 20		

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TEST REPORT

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

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TEST REPORT

Test Report No & Date	CTL/CN/N-20095/2024-25&02.09.2024				
Sample Number	N-280 95/24-25				
Name of the Customer	M/S. TAMIL NADU NEWSPRIN'T AND PAPERS LIMITED - UNIT II, Mondipatti Village, K.Periyapath Post, Manapparai Taluk.				
Addross					
	Trichy District - 621 306, Tamil Nadu.				
Sample Drawn by	Laboratory				
Sample Name	Amhieut Air				
Sample Description	Amblen: Air Quality Monitoring				
Sampling Location	BACKSIDE OF WORK SHOP (NEAR COMPOUND WALL)				
Sample Drawn on	21.00.2024 & 10.35 to 22 08.2024 & 10.35				
Sample Percived op	24.00.2024				
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	02.09.2D24				
Environmental Condition					
Relative Humildity	64%				
Ambient Temperature	33°C				
Wind Direction	SW				
Weather Condition	ClearSky				
Test Reputte:					
The above sample tested as received, and	results are as follows.				

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	ΝΛΛΦ5*
1	PARTICULATE MATTER (PM _{2.5})	IS \$182 Part 24 - 2019	lag/m*	33.5	60
2	PARTICULATE MATTER (PM ₁₀)	IS \$182 Part 23 - 2006 (R.2017)	pg/m ³	67.4	1 MÅ
3	SULPHUR DIOXIDE (SO ₂)	IS 5192 Part 2 - 2001 (R.2017)	μg/m ^o	13.2	840
4	EXAMES OF NETROGEN (NO2)	15 5132 Part 6 - 2006 (R-2017)	µg/m [®]	29.4	80
5	0Z0N5 (O3)	CTL/SOP/AIR/00-2016	µg/m [°]	30.7	1 DU
6	LEAD (Pb)	\$ 5182 PART 22 - 2004 (R.2019)	με/m ³	BDL(01, 0, 1)	I
,	CARDON MONOXIDE (CO)	СТЦ/SOP/AIR/23 2016	nig/m ³	80L(01:1.15)	1
8	AMMONIA (NU)	IS 5182 Pari 25 - 2016	µg/m²	26.8	400
•	ARSENIĽ (AS)	CTL/SOP/AI8/06-2016	ng/m*	BDL(DL 1.0)	6
10	NICKBL (NI)	IS 5182 Part 26 - 2020	ng/m²	BDL(DL/5.0)	20
11	BRNZEN£ (C,Ha)	IS \$182 PARY 11 - 2004 (R.2017)	μ <u>κ</u> /m ³	BD L(DL 1.0)	5
12	BENZO(S)PYRENE	IS \$182 PART 12 - 2004 (R.2019)	ng/m*	80L(DL-0.5)	1
13	HYDROGEN SULPHIDE(K3S)	IS 5182 PART 07 - 2021	µg/mi ³	BDL(DL/60)	

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Test Report No & Date

TEST REPORT

CTL/CII/N-28095/2024-25 & 02/09/2024

SLINO	PARAMETERS	Μετιίαος	UNITS	ACSULTS	NAAQS"
14	MERCURY (Hg)	CTL/SOP/AIR/25-2016	ug/m²	ADL(DL-0.01)	

*National Antient Air Quality Standards prescribed by Ministry of Environment and Pureats, Government of India vide Gazette Not Scation G S R 826(E) dated 10.11 2009

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

END OF REPORT

For Chennel Tossing Laboratory Pvt Lid

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Page 2 of 2

G. MANIKANDAN Head - Environment Draising (CHEMICAE)

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TEST REPORT

Testi	eport No & Date	CTL/CIL/N+28096/2024-25 & 02.0	9.2024		
Saungel	le Number	N-20096/24-25			
Name	of the Customer	M/S. TAMIL NADU NEWSPRINT AI	ND PAPERS LINI	ITED - UNIT II,	
Addre	-55	Mondipath Village, K.Periyapath Pos	st, Manappa rai T a	aluk,	
		Trichy District - 621 306, Tamil Nad	U.		
	e Drawn by	Laboratory			
	e Nanac	Amblent Air			
-	e Description	Ambient Air Quality Monitoring			
	ing Location	FACTORY CANTEEN BUILDING			
-	e Drawn on Brashwad an	21.08.2024 & 10.25 to 22.08.2024 &	10.25		
•	e Received on Ing Plan & Procedure	24 (08.2024 C/L/QSP/F-89 & IS 5182 (Part V) av	d (Dars Villa		
-	e Quantity	1 No	0(Part My)		
•	ment used for Sampling	RDS Sample: S.No:2613-0T1-2019			
	sis Started on	24.08.2024			
-	sis Completed on	Q2.09.2024			
	onmental Condition				
Relativ	e Humidity	64%			
Ambie	nt Temperature	33°C			
Wind (Direction	SW			
	er Condition	Cear Sky			
<u>Test Br</u> The abo	ts uits: we sample tested as received, and res	ults are as follows:			
SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS"
ι.	PARTICULATE MATTER (PM ₂₅)	15 S182 Pare 24 - 2019	µg/m²	29.4	60
Ż	PARTICULATE MATTER (PM ₁₊)	(\$ 5182 Part 23 - 2006 (R 2017)	µg/m²	62.5	100
3	SULLAHUR DIOXIDE (SO ₂)	15 5 182 Paix 2 - 2001 (8.3017)	pg/m²	12.1	60
4	OXIDES OF NITROGEN (NO2)	45 5182 Part 6 - 2006 (R 2017)	ME/m ³	25.5	60
5	07.0NE (0 ₁)	CTL/SOP/AIR/D8 - 2016	pig/10 ²	32.6	160
6	LEAD (Pb)	JS 5182 PART 77 - 2004 (0 2019)	µg/04 ⁷	สมเ(ม⊡กา)	1
7	ÇARBÛN MÛNÛXLÛÊ (C9)	CTL/SOP/A(R/23 - 2016	ing/m ²	BDL(DL:1.15)	4
8	AMMONIA (NIL _j)	35 5482 Pare 23 + 2018	pg/m ²	242	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	በፎ/መ ³	80L(0L:1 0)	6
10	NICKBL (N)	IS 5182 Part 26 - 2000	Pg/m ³	BDL(D1.5.0)	20
11	BENZENE (Č. N. I	IS 5182 PART 11 - 2006 (H.2017)	µg/m²	ΒΟϤ(DIFJLV)	5
IŻ	BEN2O(2)PYRENE	IS \$192 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL-0.5)	1
				BDL(DL:6.0)	

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For Chennal Testing Laboratory Pvi Ltd

ised Sig MANIKANDAN Page 1 of 2 G. Head - Fevimoment Division (CricMICAL)

The Report plant not be used to manyly, stepped and for any identifiers (associate the Report is meant only for effective update of denoted to promote bather and burders.

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Test Report No & Date

TEST REPORT

CTL/CH/N-28096/2024-25 & 02.09.2024

SL.NO	PARAMETERS	METHODS	UMITS	RESULTS	NAAQS"
	MERCURY (Hy)	CTL/SOP/AI8/25-2016	µ8/m ¹	80L(DL:0.01)	

*National Anobient Ait-Quality Stantants prescribed by Min.stry of Environment and Fotests, Government of India vide Gazette Notification G.S.R. 826(E). dated 13.1.2.009.

BDI. Bekew Detection Limit(D.L - Detection Limit)

END OF REPORT

For Chennel Testing Laboratory Pyt U.d.

Page 1 of 2

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eed Signad G. MANIKANDAN Head - Environment Division (¢hemical)

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

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TEST REPORT

S≉n N≎r	a Report No & Date apie Number we of the Customer iress	CTL/CH/N-28097/2024-25 & N-28097/24-25 M/S. TAMIL NADU NEWSPRIN Mondipanti Vellage, K.Poriyapatt Trefty District - 621 306, Tamil	T AND PAPERS LI I Post Manadoarai	MITED - UNIT II, Taluk,	
Sam	wie Drawn by	Laboratory	<u>Nadu</u>		
Sam	iple Name	Ambient Air			
Sain	ple Description	Ambient Air Quality Monitorit			
	plingLocation	GUEST HOUSE	45		
	ple basen on	22.08.2024 & 15.50 to 23 08.202	4 & 15 50		
	ple Roceived on	24.08.2024			
	pling Plan & Procedure	CTL/QSP/F-89& IS 5182 (Part V) and (2art KIV)		
	ple Quantity	1 No	,		
	prent used for Sampling	RDS.Samp/er 5,No:2245-IVTK-20	[7		
	ysis Started on	24.08.2024			
	ysis Completed on	02.09 2024			
	continental Condition				
	ive Humidicy	62%i			
	ent Temperatura	34°C			
	Direction Per Condition	SW			
	er Condinop Gsyling	Cival'Sky			
	oversample tested as received, and re-	with the set of the set			
SL.NC					
⊢		METHODS	UNITS	RESULTS	NAAQS*
<u> </u>	PARTICULATE NATTER (PM	IS S 182 Part 24 - 30 19	e8/0 ²	16.#	60
<u></u>	PARTICULATE MATTER (PM)	15 5182 Part 23 - 2006 (R.2017)	Pg∕m ³	45.6	100
<u> </u> *	SULPHUR DOXIDE (SO2)	IS \$18Z Part 2 · 2001 (R.2077)	H2/m ³	6.3	
- •	OXIDES OF WITRINGEN (NO2)	IS 3162 Parce - 2006 (R.2017)	↓g/m ¹	14.8	- 30
5	020NE (0))	CTL/SOP/AIR/08 - 2016	F.G/ns ³	21.6	
•	LEAD (Pb)	K 5182 PART 22 - 2004 (R.2019)	μg/m ⁷	BDL(DL-0.1)	
	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	rr∉/m²	BDL(DL-1.15)	
8	AMMONIA (NH3)	IS 5182 Part 25 - 2018	PK/H ²	14.5	400
9	AH2EMIC (V2)	CTL/SOP/AIR/06-2016	hg/m ³	BOL(DL:1.0)	400 <u>-</u>
96	NICKEL (N)	15 5102 Part 26 - 2020	ng/m ³	BD4(DL5.0)	
	BENZENE (C _c m ₄)	15 5192 PARY 11 - 2006 (R.2017)	μ g /ηι [±]	BDL(DL:10)	5
	BEMZQ(a)PYKENE	15 5182 PART 12 - 2004 (R.2019)	ng/m	BDL(DL-0.5)	<u> </u>
13	NYDROGEN SULPHIDE(H,S)	IS \$182 PART 07- 2021		BDL/DL-6 m	·

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For Chennal Testing Laboratory Pvt Ltd

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TEST REPORT

Test Report No & Date

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CTL/CH/N-28097/2024-25 & 02.09.2024

		·					
	5L.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS+	
		_ ·_ ·			_		
ļ	14	MERCURY (lig)	(TL/S0P/AIR/25-2016			' I	
ļ			1747 991 77111725-2016	HE/m ²	BDQ(DQ.01)	· · ·	1
5	Nationa	Anbient Afr Quality Standards new rel	and has send as a send of the			1	

dands prescribed by Ministry of Environment and Porests. Government of India vide Gazette Nohfication GS R 826(E) dated 18-11:2009, BDL - Relow Detection Linkl(D.L - Detection Lane)

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For Chennal Testing Laboratory Pvt IAd

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Page 2 of 2

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TEST REPORT

Test Report No & Date	CTL/CH/N-28098/2024-25 & 02.09.2024				
Sample Number	N-2009B/24-25				
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,				
Address	Mondipata Village, K Periyapatti Posi, Manapparai Taluk,				
	Truchy District 621 306, Tomit Nodu.				
Sample Drawn by	Laboratory				
Sample Name	Ambient Air				
Sample Description	Ambient Air Quality Monitoring THIRD KANDASARIY HOUSE, PURGUDEPATTL(BRIETER ROAD) UNICTION, OUTSIDE OF				
Sampling incation	CONSCIENCE AND A CONSCIENCE OF A				
Sample Drawn on	21.05.2024 & 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 5.No-1985-DTD-2016				
Analysis Started on	24.08 2024				
Analysis Completed on	07 09 2024				
Environmental Condition					
Relative Humoday	64%				
Ambient Temperature	31°C				
Wind Direction	214				
weather Condition	Oear Sky				
Test Results:					
The above sample rested as received, and	results are as follows.				

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM, c)	15 5182 Part 24 - 2019	۲ ۴ /m ³	245	БÛ
2	Р»… : KULATE MATTER (РМ _М)	45 5182 Part 23 - 2006 (R.2017)	µg/m²	34.B	100
3	SULPHUR MOXIDE (\$02)	IS 5182 Part 2 · 200 ((R.2017)	µg/m²	10.2	80
+	DXIDES OF NITROGEN (NO ₂)	JS 5102 Part 6 - 2006 (8.20)7)	µg/m²	21.3	60
5	020NE (03)	CTL/SOP/AIR/08 - 2016	kg /m ⁰	32.5	180
6	LEVD (MP)	IS 5182 PART 22 - 2004 (R.2019)	ME/m ³	0DL(DL:0.1)	
7	CARDON MONOXIDE (CU)	CTL/50P/AIR/23 - 2016	mg/m ⁷	BDL(DL.1.15)	4
8	AMMONIA (NB ₂)	IS 5182 Part 25 - 2018	µg/m²	16.2	400
9	ARSONIC (AS)	CTL/SOP/AIR/06 - 2016	ng/m ⁰	80L(DL-1.0)	6
10	NICKEL (Ni)	IS \$182 Part 26 - 2020	ng/m ^a	BOIL(DIL 5.0]	20
u	DENZENE (CoHe)	15 5362 PART 11 - 2006 (R 2017)	wę/ma ⁿ	BDL(D1:1.0)	i i
12	BENZO(=)PYREME	IS 5182 PART 12 - 2004 (R 2019)	ng/m ³	BDL(DL:0.5)	1
Ē	MYDROGEN SULPHIDE(H,S)	IS 5102 PART 07 - 2021	µg/w²	80L(DL.6.0)	

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For Chennal Testing Laboratory Pet Ltd Authorised Subiatory G. MANIKANDAN Head - Enginorment Unision (CHEMICAL)

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

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CIN 1093000TN2000PTC043869

Test Report No & Date

TEST REPORT

CTL/CH/N-28098/2024-25 & 02.09-2024

SL.NO	PARAMETERS	METJ+0D5	UNITS	RESULTS	NAAQS"
14	MERUVRY (ME)	CTL/SOP/AIR/25-2016	ի ց /տ՝	5DL(DL:0.01)	-

*Nacional Ambient Air Quality Standards prescribed by Ministry of Environment and Forests. Government of India vide Gazette Notification GS.R. 826(E) dated 16 11.2009

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

END OF REPORT

For Channel Testing Laboratory Pvi Ltd

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G. MANKANDAN Head - Environment Division (CHEMICAL)

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TEST REPORT

	teport No & Date	CTL/CH/N-20099/2024-25 & 02 M-20099/24-25	.09.2024			
Sample Number N-20099/24-25 Name of the Castopher M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,						
Addre		Muhdupatti Village, K.Penyapatti Pr				
AUUIC		Trichy District - 621 306, Tamil Na				
Sampl	e Drawn by	aboratory				
Sampl	e Name	Ambient Air				
Sampl	e Description	Ambient Air Quality Monitoring				
Sampl	ing Location	110KVA SUB-STATION (RIGHT S	IDE 10METERS AV	VAY}		
Sampl	e Drawn on	21.08.2024 & 11.00 to 22.08.2024 &	£ 11.00			
-	 Received on 	24.08 2024				
Sanıpl	ing Plan & Procedure	CTL/QSP/F-89 & IS 5102 (Part V) a	ind (Part XIV)			
-	e Quability	1 No				
	ment used for Sampling	RDS Sampler S.No:2611-DTI-2019				
-	sis Started on	24.00.2024				
	as Completed on	02,09.2024				
	omental Condition					
	e Humidity	64%				
	nt Temperature	33°C				
	Direction	SW				
Weath Tost Re	er Condition Instan	Clear Sky				
	parties we sample tested as received, and resu	dis are as follows				
SI_100	PARAMETERS	METHNOS	UNITS	RESULTS	NAAQ5*	
1	PARTICULATE MATTER (PM ₂₅)	25 \$182 Part 24 - 2019	µg/m²	لا 42	60	
Z	PARTICULATE MATTER (PM10)	IS 5182 Part 23 - 2006 (R 2017)	µg∕m ⁱ	73 \$	100	
3	SULPHUR DIOXIDE (SO3)	IS 5102 Part 2 - 2001 (R-2017)	µ g ∕m ³	16.3		
4	OXIDES OF NITRUGEN (402)	IS 5182 Part 6 - 2006 (R.2017)	µg/m²	31.4	80	
5	0ZON E (O ,)	CTL/SOP/AIR/08 - 2016	µg∕m ¹	41.2	180	
6	LEAD (Pb)	I\$ \$162 PART 22 + 2004 (R.2019)	µg/m²	BOL(OL:0.1)	1	
7	CARBÓN MÓNOXIDE (CP)	CTL/SOP/A:R/23 - 2016	mg/m ³	80L(01/1-15)	4	
¥,	AMMUNIA (NB ₃)	IS 5382 Part 25 - 2015	M2/TP	37.6	40 0	
9	ARSENIC (As)	CTL/50P/AIR/06 - 2016	mg/in'	BDL(DL:1.0)	6	
10	MICKEL (16)	15 5182 Para 26 - 2020	ng/m²	DOL(OL;S.0)	20	
	BENZENE(Č⊾H _o)	IS 5182 PART 11 - 2006 (8.2017)	µg/m [°]	BOL(DL:1.0)	5	
12	BENZÓ(A)PVRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	I	
13	HYDROGEN SULPHIDE(H ₁ S)	(\$ 5182 PART 07 - 2021	μg/m'	BDL(DL 6.0)	-	

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For Chennal Testing Laboratory Pvt Ltd

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Page 1 of 2

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Head - El vironment Division

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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@chennaltestinglab.com www.ctilabs.in



TEST REPORT

Test Ro	Test Report No & Date CTL/CH/N-28099/2024-25 & 02.09.2024						
SLNO	PARAMETERS	METHODS	UNITS	RESULTS	MAAQS*		
14	MERCURY (Hg)	CTL/SUP/AIR/25-2016	µይ/ጣ ³	BDL(DL:0.01)			

"National Ambeers An Quality Standards prescribed by Ministry of Environment and Forests. Government of India vide Gazette Notification 6.5.8. 826(E) dated 18 11.2009

BDL - Below Detection Limit(D.L - Detection Unit4)

*** END OF REPORT ***

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G. MANIKANDAN Head - Environment Division (CHEMICAU

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TEST REPORT

Test Report No & Date CTL/CH/N+28100/2024-25 & 02.09.2024 Sample Number N+20100/24-25						
Name of the Customor M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,						
Address Mondipatti Village, X.Periyapatti Post, Manapparal Takik.						
		Truchy District - 621 306, Tamil Nadu.				
-	e Drawn by	Laboratory				
	e Name	Ambient Air				
	e Description	Ambient Air Quality Monitoring WEST ENTRANCE GATE (ROGET)	SIDE SO MOTERSA	WAY FROM THE GA	TE, LOMAETORS	
-	ing Location	TROM COMPOUND WALL1 21.08.2024 & 10.50 to 22.08.2024 (2.14. € 0			
-	e Drawn on e Received on	24.08 2024 24.08 2024	2 10.30			
•	ing Plan & Proceduro	- 24.06 2024 - CTL/QSP/F-89 & IS 5182 (Part V) a	and (Part XIV)			
-	e Quantity	1No				
	ment used for Sampling	RDS Sampler 5.Nor2000-DTC-2016				
• •	s Started on	21.08.2024				
	als Completed on	02.09.2024				
Enviro	nmental Condition					
R etanv	e Humidity	64%6				
Ambiei	nt Temperature	33°C				
Wind (Direction	ŚW				
	er Condution	Clear Sky				
Test Re The sho	a <u>sailts:</u> ive sample tested as received, and resul	its are as follows:				
SLINO		METHODS	UNITS	RESULTS	NAAQS*	
1	PAARICULATE MATTER (PN ₂₅)	IS 5182 Part 24 - 2019	មន្ត្រាំហ [ា]	32.5	60	
2	PARTICULATE MATTER (PM10)	IS 5182 Part 23 - 2006 (R.2017)	ug/m³	8. 7 6	100	
3	SULPHUR DIOXIDE (SO2)	15 5182 Ppm 2 - 2001 (R.2017)	µg/m³	14.2	80	
1	ONIDES OF NITRINGEN (NO ₂)	IS 5187 Pari 6 - 2006 (R.2017)	MB/m²	28.7	60	
5	02045 (O ₂)	CTL/SOP/AIR/08-2016	μg/ms ³	37.5	180	
¢	LEAD (Fb)	IS STRE PART 22 - 2004 (JC2019)	lq;/ш ^{`)}	004(01-01)	I	
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	nsg/ns ¹	BDL(DL:1.15)	4	
8	AMMONIA (NH ₁)	15 5382 Pan 25 - 2018	µgg∕an ³	243	400	
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	00L(0L:1.0)	6	
19	NJÇKÊL (MI)	IS 5102 Part 26 2000	നള/സ	8bL(D1:5.0)	20	
11	BENZEWE (C ₆ K ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ²	0DL(DL-1-0)	\$	
12	BENZO(a)PVRENE	IS \$182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(040.5)	I	
13	HYUROGEN SULPHIDE(H ₂ S)	I\$ 5182 PART 07 - 2021	µg/m²	BDU[DL-6.0]		

For Chennal Testing Laboratory Pet Ltd. the rised Signatory A١ G. MANIXANDAN Head - Confronment Crivision (CHEMICAL)

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Test Report No & Date

TEST REPORT

CTL/CH/N-28100/2024-25 & 02-09-2024

SLNÓ	PARAMETERS	NETHODS	UMITS	RESULTS	NAAQS'
14	MERCURY (Hg)	u tl /SUP/AIR/25- 2016	ug/m'	8DL(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 ab.t.1 chris.

BUL - Below Detection Lamin(DL - Detection Limits)

END OF REPORT

For Chennal Testing Laboratory Pri Ltd

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G. MANIKANDAN Head - Environment Davisitety (CHEMICAL)

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TEST REPORT

Test R	eport Na & Date	CTL/CH/N-28101/2024-25 & 02	.09.2024			
Semp)	e Nymber	N-26101/24-25				
Name of the Customer M/S. TAMIL NADO NEWSPRINT AND PAPERS LIMITED - UNIT II,						
Addre	\$ 5	Mondipatti Village, K.Periyapatta Pe		uk,		
Truchy Discriter > 621 306, Tomil Madu.						
	e Drawn by	Laboratory				
•	e Name	Ambient Air				
	e Description	Ambient Air Quality Monitoring	VARDARI ULLACE			
	(ug Location	MALAYA GOUNDER HOUSE, PERI 21.08 2024 & 08 40 to 22.08.2024 4				
-	e Drawn on e Received on	24.08.2024 cc 08 40 to 22.08.2024 c	2 (4110			
-	ing Plan & Procedure	CTL/QSP/F-89 & IS 5182 (Part V) #	ord (Part XW)			
-	e Quantify	1 No				
-	ment used for Sampling	RDS Sampler S.No: 2610-DTI-2019				
	sis Started on	24 08 2024				
-	ils Completed on	02-09-2024				
Enviro	umental Condition					
Kelativ	e Humidity	04%				
Amble	nt Temperature	3°CL				
Wind E	Direction	SW				
	er Condition	Clear Sky				
Test Re The abo	<u>etailts:</u> we sample tested as received, and cest	ales ane as futilows:				
ŞL.NQ	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS'	
1	PARTICULATE MATTER (PH _{2.5})	IS 5182 Part 25 - 2019	µg/m ²	15.9	60	
2	PARTICULATE MATTER (PM 14)	IS 5182 Part 23 - 2006 (R-2017)	 µg/m²	41.8	100	
3	SULPHOR DIOXIDE (SO,)	15 S182 Part 2 - 2001 (8 2017)	μg/m ¹	5 .2	80	
4	DALDES OF NITROGEN (MD2)	IS S182 Part 6 - 2006 (R.2017)	µg/m³	LO.8	80	
s	020NE (0,)	CTL/SOP/A/R/08-2016	µg/m ³	16.7	180	
٥	LEAD (Pb)	(\$ \$162 PART 22 - 2004 (R 2019)	hR\ue_	BDL(DL.0.1)	1	
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	nog/m³	BD1(DL:1.15)	4	
0	AMHOWIA (Mily)	IS \$182 Part 25 2018	μg/m ¹	8.7	100	
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m*	BOL(OL 14)	•	
10	NICKEL (NI)	15 5182 Paix 26 + 2020	Ag/rA ³	BDL(01/5/0)	20	
11	BENGENE (C _e n _e)	IS 5182 PART 11 - 2006 (K2017)	µg/m²	BDL(DL/170)	5	
12	BENZO(a)PYRENC	IS 5182 PART 12-2004 (R 2019)	ng/m²	BDL(DL:0.5)	1	
13	HYDROGEN SULPHIDE(H2S)	IS 5162 PART 07 - 2021	μ ε /m³	BDL(DLG.Ø)	-	

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For Chennal Testing Laboratory Pvt Ltd

Page 1 of 2

G. MANIKANDAN Head - Environment Orvision (CHEMICAL)

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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-28101/2024-25 & 02.09.2024

SLNQ	FARANETERS	WETHONS	Units	RESULTS	MAAQS'
14	MERCURY (M2)	CTL/SOP/AIR/25-2016	ug/m ¹	BOL(DL:0.01)	

National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests. Covernment of India vide Gazette Notification GS.0. 026(E) dated 18.11.2009

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For Chennal Testing Laboratory Pvt Ltd

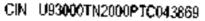
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A - Soper 19, T.V.K. Industrial Estate, Gröndy, Chennai - 600 032, Tamit Nadu - India

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TEST REPORT

	Tesi Report No & Date CTL/CH/N-28102/2024-25 & 02:09:2024 Sample Number N-28102/24-25							
	¢of the Customer	M/S. TAMIC NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,						
Addı		Nondipatti Village, K.Persyanan, r	INTERNAL MODELING	Twink				
		Nondipatti Village, K.Penyapatu Post, Manappatai Taiuk, Trichy District - 621 306, Tamil Nadu.						
Samu	ple Drawn by	Laboratory						
Samp	ste Name	Ambient Arr						
-	the Description	Amblent Air Quality Monitoring						
	ding Location	SHANMUGAN, PADHIRIPATTI						
	lle Drawn og	21.08.2024 & 08.25 to 22.08 2024	& 08.25					
	le Received on	24.09.2024						
	Ning Plan & Procedure	CTL/QSP/F-89 & tS \$182 (Part V) :	and (Part XJV)					
	le Quantity	1 No						
	nent used for Sampling	ROS Sampler S No:2613-DTI-2019						
-	isis Started on Isis Completed on	24.08.2024						
	onmental Condition	07.09.2024						
	ve Humidity							
	ot Temperature	64% 33°C						
	Direction	SW SW						
	er Condition	Sw Cleár Sky						
	coults.	Clear Sity						
he ala	eve sample tosted as received, and are	aulus àre ar folions.						
LNO		METHODS	UNITS	RESULTS	NAAQS*			
•	PARTICULATE MATTER (PM;s)	JS 5182 Part 24 - 2019	PE/In ²	17.2	60			
ż	PARTICULATE NATTER (PM.0)	IS \$182 Part 23 - 2006 (R 2017)	μg/m ³	43.5	100			
3	SULPHUR DIOXIDE (SO»)	V\$ 5182 Part 2 - 2001 (8.2017)	H6/m ²	5.9	30			
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (K 2017)	#8/m ³	13.2	80			
5	UZONE (03)	CTL/SOP/AIR/08 - 2016	μg/ca ¹	126	140			
6	LEAD (Pb)	IS 5182 PART 23 - 2004 (R.2019)	ME/m ²	BDL(DL:0.1)	<u></u>			
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	01g/m ³	BDL(DL:115)				
8	AMMONIA (NH ₃)	45 5182 Part 25 - 2018	11K\102_J	9.5	400			
ŋ	AASENIC (As)	GTL/SOP/AIR/06-2016	hg/m ²	BOL(DL:10)				
10	NICKEL (MI)	IS \$182 Part 26 - 2020	ng/m ³	BULLED SOL				
					617			

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INTO ROGEN SULPHIDE(H2S)

BENZENE (C, H,)

BENZO(a)PYRENE

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For Changel Testing Laboratory Pvi Lid

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Autopresed Signal

80L(DL:1.0)

BDL(DL.0.5)

RDL(DL:60)

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µg/m*

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IS 5182 PART 11 - 2006 (8.2017)

IS \$182 PART 12 - 2004 (K 2019)

\$\$162 PART 07 - 2021

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CIN 103000TN2000PTC043869

Test Report No & Date

TEST REPORT

CTL/CH/N-28102/2024-25 & 02.09.2024

SLNO	PARAMETERS	MPTHODS	LINDES	RESULTS	NAAQS
	MERCURY (Hg)	CTL/SOP/AIR/25-2016	נפ/פו ¹	BDL(DL:001)	

*Marional Amblent Air Quality Standards prescribed by Ministry of Businonment and Forests. Government of Judia vide Gazette Nobilication G.S.J. B26(E) - Jated 18.1 1.2009.

BDL - Below Detection Limit(DL - Detection Lunit)

END OF REPORT

For Chunnel Testing Laboratory Pvt Ltd

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Page 2 of 2

G. AIAMIX ANDAN Head - Environment Division (OHEMICAL)

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TEST REPORT

	leport No & Date le Number	CTL/CH/N-28103/2024-25 & 02.0 N-28103/24-25	9.2024				
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - IDNIT II,							
Addre	55	Mondipatti Village, K.Periyapatti Pos	it, Моларрага Ті	aluk,			
		Trichy District - 621 306, Tanul Nadu					
Şampi	le Drawn by	Eaboratory					
	le Name	Ambient Avr					
	le Description	Amblent Air Quality Monitoring					
	ling Location	ARUMUGAM GOUNDER, PODUVAR					
	le Drawn on	21.08.2024 & 08.10 to 22.08.2024 &	08.10				
-	le Received on	24.08.2024					
	ing Plan & Procedure	CTE/QSP/F-89 & IS 5102 (Part V) an	d (Part XIV)				
-	e Quandry						
	ment used for Sampling	RDS Sampler SNo 2245-DTK-2017					
-	sis Started on	24.00.2024					
	sis Completed on Humental Condition	02/09/2024			· ·		
	re Humidig; at Temperature	5479 33°C	54% ·				
	Direction	SW/					
	er Condition						
Test Re		Cical Sky					
	ove sample tested as received, and res	ults are as follows:					
SLNO	PARANETERS	метно05	UNITS	RESULTS	NAAQS*		
I	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	μg/m ³	21.4	641		
2	PARTICULATE MATTER (PN _{pp})	IS 5182 Part 23 - 2006 (R.2017)	Pg/m ³	47.2	100		
3	SULPHUR DIOXIDE (SO ₂)	IS \$182 Part 2 - 2001 (8:2017)	11@/m ³	6.5	60		
4	UKINES OF NITROGEN (MO2)	(\$ 5162 Part 6 - 2006 (# 2017)	µg/m¹	12.3	80		
5	(ZONE (01)	CTL/SOP/AIR/08 - 2016	ng/m ₂	L4.5	180		
ú	LEAD (FD)	(\$ \$182 PART 22 - 2004 (R 2019)	pg/m ³	PDL(DL0.1)	l		
7	CARBON MONORIDE (CO)	CTL/SOP/AIR/23 - 2016	eng/m²	BUGUGALISJ	+		
\$	AMMONIA (NH ₂)	IS \$182 Part 25 2018	µg/m³	93	400		
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	log,/no ¹	BOL(D1/1.0)	6		
10	CONTRACTOR CONTRACTOR OF CONTRACTOR	IS 5187 Paur 76 - 2020	മു/ന്	BDL(DL:5.0)	20		
	NICKEL (Ni)						
•1	BENZENE (C.H.)	IS 51812 MART 11 - 2005 (R 2017)	լոն/աշ	BDL(DL:1.0)	5		
•1 12			ng/m²	80L(0L-1.0) 80L(0L-0.5)	5		

For Cleanal Testing Laboratory Pvt Ltd

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Head - Enveranment Ormaion (CHEMICAL)

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TEST REPORT

Test 🛤	Test Report No & Date CTL/CH/#-28103/2024-25 & 02.09.2024							
5L-NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS"			
14	MERLINRY (Hg)	CTL/SOP/AIR/25-2016	₩g/ib²	BDL(DL-0.01)	-			

National Authingt Als Quality Standards prescribed by Ministry of Environment and Forasts, Government of India vide Gapette Nutification G.S.R. 826(E)

dured 10.11.2009

ODL - Relow Detection Limit(D.L - Detection Limit)

END OF REPORT

For Chennial Testing Laboratory Pvi Ltd

Page 2 of 2

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C. MANIKANDAN Head - Environment Division (Cinti**s**te TAu)

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TEST REPORT

Test Report No & Date	st 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, Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,					
Address						
	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 D'rwn ou	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					
Environments# Condition						
Relative Homodity	64%					
AmbientTemperature	39°C					
Wind Direction	SW					
Weather Condition	Ocar Sky					
Tank Damakter						

Test.Results:

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

DISCIPLINE : CHEMICAL

: ATMOSPHERIC POLLUTION GROUP

SLNO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQST
1	PARTICULATS MATTER (PM ₁₄)	IS \$182 (PpH 24)	P2/04 ³	291	60
2	PARTICULATE MATTER (PMps)	IS \$182 (Part 23)	PE/m ³	663	LOQ
3	SULPHUR DIOXIDE (SO ₁)	IS \$192 (Part 2)	µg/m²	10.9	80
4	OXIDES OF NITRUGEN (NO3)	JS 5182 (Part 6)	µg/m²	21.6	80
5	QZONE (Q1)	CTL/SOP/AIR/08	µg∕m [‡]	42.5	180
ب ۲	LEAD (PD)	IS 5182 (Part 22)	H\$/IM'	BLQ(LOQ.0.05)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23	mg/m ³	BLQ(LÓQ:1.15)	•
8	AMMONIA (NHJ)	(S \$182 (Part 25)	μg/m ³	22 6	400
, 9	ARSENN (A9)	CTL/SOP/AIR/06	ng/m²	BLU(LOQ 1.0)	6
10	NIČKEL (NI)	IS 5182 (Part 26)	ng/m [‡]	BLQ(LOQ.2.0)	20
11	GENZBNB (C _o ll,)	IS 5182 (Part 11)	μ _{K2} /m ³	BLQ(LOQ.1.0)	5
12	Benzo(=)Pyreme	IS 5182 (Part 12)	ng/m ³	BLQ(LOQ:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS \$187 PART 07	µg/m ³	BLQ(LOQ-6.0)	

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For Chennal Testing Laboratory Pvi (14

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Page 1 of 2

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Test Report No & Date

TEST REPORT

CTL/CH/N-29762/2024-25 # 03.10.2024

SL. 140	PARAMETERS	NETHODS	UNITS	RESULTS	N4AQS*	
	MERCURY (IIg)	CTL/SOF/AIR/25	μg/m ³	B1Q(LOQ:0.01)	•	

*National Auchient Air Quality Standards prescribed by Ministry of Environment and Porests. Covernment of India vide Gazette Notification G.S.R. 826(R). dated 18.11.2009.

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

""END OF REPORT

For Chennel Testing Laboratory Pvt Ltd

Page C of C

G. MANIKANDAN Head - Environment Civision

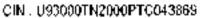
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TEST REPORT

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, Tamii Nadu.	
Sample Drawn by	Laboratory	
Sample Name	Ambient Air	
Sample Description	Amblent Air Quality Monitoring	
Sampling Incation	FACTORY CANTEEN BUILDING	
Sample Drawn on	18.09.2024 & 09.50 to 19.09.2074 & 09.55	
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 5.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	\$W	
Weather Condition	Cisar Sky	

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

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SLNO	PARAMETERS	NETHOPS	UNITS	RESULTS	NAAQ5"
I	PARTICULATE MATTER (PM ₂₅)	IS \$102 (Part 24)	μg/m³	3 <u>2 5</u>	60
2	PA-> (ICULATE MATTER (PM ₁₄)	(S \$192 (Part 23)	μg/m³	66.7	100
3	SULPHUR DRUXIDE (SU2)	IS 5382 (Part 2)	µg/m*	14.2	80
4	DATERS OF NATROGEN (ND2)	JS 5182 [Part 6]	pg/m ³	27.3	80
5	020ME (0 ₃)	CTL/50P/AIR/08	μg/m [°]	38.6	180
6	LEAD (Pb)	IS \$182 (Part 22)	hđ', w ₂	BLQ(LOQ.0.05)	ı
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23	mg/m ³	BLQ(LOQ.1.15)	•
8	AMMUNIA (NIL)	15 5182 (Part 25)	⊫g/m²	20 5	400
9	ARSENIC (As)	CTL/SOP/AIR/66	ng/m ³	BLQ(LOQ-1.6)	6
10	NICKEL (NI)	15 5102 (Part 26)	0 6 /01 ³	BLQ(LOQ.2.0)	20
11	6 8M1ENB (C.H.)	1\$ 5182 (Parr 11)	μg/m ³	BLQ(LOQ:14)	5
12	BEN2O(+)PYRENE	LS S182 (Part 12)	ng/m ³	BLQ(LOQ:0.5)	ı —
13	HYDROGEN SULPHIDE(H;S)	IS 5182 PART 07	µg/m³	BLQ(LOQ:6.0)	

For Chennel Testing Laboratory Pvt Ltd. Page 1 of 2

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Test Report No & Date

TEST REPORT

CTL/CH/N-29761/2024-25 & 03.10.2024

SL.NO	PARAMETERS	METHODS	UNITS	PESULTS	NAAQS'
14	MERCURY (Hg)	CTL/SOP/AIR/25	μα/ω ¹	BLQ(LOQ:0.01)	-

*National Ambient Air Quality Standards presented by Ministry of Environment and Parosta, Government of India vide Gazette Notification GS R 826(E) dated 18.11 2009.

BLQ - Delow Laws of Queenfication: LOO - Laws of Quentification:

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For Chennal Testing Laboratory Pet Ltd

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Head -(CHEMICAL)

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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. TAMIC NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipath Village, K.Periyapatti Post, Manapparal Taluk,
	Trichy Discret - 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	

Test Results

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

DISCIPLINE : CHEMICAL GROUP : ATMOSPHERIC POLLUTION

PARAMETERS UNITS RESULTS SLNO METHODS NAAOS" I PAPTICULATE MATTER (PN25) 15 5182 (Part 24) µg/m³ 27.0 60 2 PARTNON, ATE MATTER (PM 14) IS 5182 (Part 23) ung/m³ 61.0 100 3 \$0LPHUR DЮХЯDE (\$0₂) 15 5182 (Part 2) 11.0 80 µg/m^{*} 4 OXIDES OF NITROGEN (NO2) 15 5182 (Part 6) jig/m³ 21.6 80 OZONE (O) CTL/SOF/AIR/08 2**3**.8 Ş hB\au, 180 LEAD (Pb) (\$\$182 (Part 22) µg∕m² BLQ(LOQ 0.05) 6 1 7 CARBON MONOXIDE (CO) CTL/SOP/AIR/23 BLQ(LOQ.1.15) 4 mg/m* B AMMUNIA (NH.) JS 5162 (Part 25) 16.5 400 $\mu g/m^2$ ARSENIC (As) BLQ(LOQ-1.0) Q, CTL/50P/AIR/06 ng/m⁹ 6 NICKEL (NI) 15 5182 (Part 26) BLQ(LOQ.2.0) 10 ng/m³ 20 BENZENE (C, H,) 11 IS 5182 (Part 11) µg/aŋ[>] BLQ(LOQ:1.0) 5 ng/m³ 12 BEN2O(4)PYRENE IS \$182 (Part 12) BLQ(LOQ:0.5) I. 13 HYDROGEN SOUPHIDE(H₂S) IS 5182 PART 07 BLQ(LOQ:6.0) ng/m²

For Chepna) Testing Laboratory Pvt Ltd

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Test Report No & Date

TEST REPORT

CTL/CH/N-29765/2024-25 & 03.10.2024

SLNO PARAMETERS METROUS UNITS RESULTS NAAQS* 14 MERCURY (Hg) CTL/SOP/AIR/25 µg/m³ BLQ(LOQ:0.01) .

*National Airblent Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazetie Notification G.S.R. 826(E) dated 10.112009.

BLQ Below Larast of Quancification: LOQ - Unnit of Quantification:

END OF REPORT

For Chennal Testing Laboratory Pvt Ltd

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G. MANKANDAN Head - Endremon Division (CREMICAL)

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

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TEST REPORT

Tast 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	Mondipatti Village, K.Periyapatiti 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	THIRD, 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	C7L/QSP/P-89 & IS 5182 (Part V) and (Part X'V)				
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				
Environmental Cutidition					
Relative Humidity	64%b				
Amblent Temperature	33*C				
Wind Direction	\$W				
Weather Condition	Glean Sky				

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

DISCIPLINE - CHEMICAL

GROUP ATMOSPHERIC POLLETION

SL NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQ5*
1	PARTICULATE MATTER (PM ₂₅)	(\$ \$182 (Part 24)	sg/m ²	21.7	60
2	PARTICULATE NATTER (PN10)	(\$ \$182 (Part 23)	µ ∉/m ³	51.6	100
з,	SULPHUR DIOXIDE (SO2)	IS 5102 (Part 2)	⊭g/m [*]	9.6	BO
	OXIDES OF NITROGEN (MO2)	155162 (Pari 6)	µg/m ^a	19.2	80
5	020NE (0 ₁)	CTL/SOP/AIR/08	μg/m²	26.5	1840 1840
6	LEAD (PD)	IS \$182 (Part 22)	μ8'\m ₃	8F6(TOd:002)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23	mg/m³	BLQ(L0Q:1.15)	•
9	AMMONIA (NH3)	13 5302 (Part 25)	H8/P1 ²	13.8	400
9	ARSENIC (A1)	CTL/SOP/AIR/06	rg/n ²	BLQ[LØ&1 0)	6
10	NICKEL (Ni)	(\$ \$ 182 (Part 26)	ng/m²	BLQ(1.0Q;2.0)	20
П	BENZENE (C _e n _é)	IS \$182 (Part 11)	₩s/m²	BLQ(L0Q:1.0)	5
12	BENZO(A)PVRENE	IS \$182 (Part 12)	ng/m ³	BLQ(LDQ:0.\$)	I
13	HYDROGEN SULPHINDE(H ₁ S)	IS 5182 PART 07	PK/m ²	BLQ(LOQ.6.0)	-

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For Chennel Testing Laboratory Pyt Ltd

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Test Report No & Date

TEST REPORT

CTL/CH/N-29766/2024-25 & 03.10.2024

SLINO	PARAMETERS	METHODS	UNI:T\$	RESULTS	NAAQS"
14	MERCURY (Hg)	CTL/SOP/AIR/25	μ <u>Π</u> ,ιæ ₃	BLQ(LOQOOL)	

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

BLQ - Below Limit of Quantification (LOQ - Limit of Quantification

END OF REPORT

For Chennal Testing Laboratory Pvt Ltd

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G. MANIKANDAN Head - Environmeur Division (CHEMICAL)

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TEST REPORT

Test Report No & Date	CTL/CII/N-29764/2024-25 & 03-10.2024	
Sample Number	N-29764/24-25	
Name of the Customer	M/S. TAMIL NAOU NEWSPRINT AND PAPERS LIMITED - UNIT II.	
Address	Mondipath Village, K.Penyapath Post, Manapparar Faluk,	
	Trichy District - 621 306, Tamil Nadu.	
Sample Drawn by	Laboratory	
Sample Noare	Ambient Arr	
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	CT1_/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	23.09.2024	
Analysis Completed on	03.10.2024	
Environmental Condition		
Relative Humidity	64%	
Ambient Temperature	33°C	
Wind Direction	2 M	
Weather Condition	Glean Sky	

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

GROUP : ATMOSPHERIC POLLUTION

5L.MO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
I	PARTICULATE MATTER (PM ₂₅)	IS 5182 (Part 24)	µg/m ⁹	36.5	60
2	PARTICULATE MATTER (PM ₁₀)	15 5182 (Paer 23)	μg/m ⁹	79.5	100
4	SOLPHOR DIOXIDE (SO ₂)	15 \$162 (Part 2)	pg/ra³	18.5	80
4	OXIDES OF NITROSEN (NO ₂)	12 5 (82 (Part 6)	sg/m²	35.7	80
5	0Z0NE (0 ₁)	CTL/SOP/AIR/00	pag/m²	44 0	180
6	LEAD (PD)	IS 5162 (Part 22)	ug/m ²	BLQ(LOQ:0.05)	1
7	CARBON MONOKIDE (CO)	CTL/90P/AIR/23	m⊈/m ⁰	BUQ(LOQ:1.15)	4
8	AMBONIA (NH _a)	15 51 82 (Part 25)	µg∕m*	39.5	400
9	ARSEMIC (As)	CTL/SOP/AIR/06	ng/m³	BLQ(LOQ:1 0)	6
1Û	NICKEL (MJ)	IS5102 (Pan 26)	ng/m²	BLQ(1/0Q:2.0)	20
11	BENZENE (C,H.)	IS 5382 (Part 11)	sg/m ³	BLQ(LOQ:1.0)	\$
12	BENZO(»)PYRENE	(\$5182 (Part 12)	4g/m ³	BLQ(LOQ-0.5)	L
13	HN'ORQGEN SULPHIDE(H ₁ \$)	IS 5182 PART 07	µ⊈/m²	BLU(LVQ-6-0)	-

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For Chennal Testing Laboratory Pvt Ltd.

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

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Test Report No & Date

TEST REPORT

CTL/CH/N-29764/2024-25 & 03.10.2024

SLNO		METHODS	units	RESULTS	NAAQS*
	MERCURY (HB)	CIU/SOP/AIR/25	μ ε /m ³	BM(COÓ SAI)	-

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gasette Notification G.S.R. B26(E) detect 18 11,2009

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

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For Channel Tasking Laboratory Pvt Ltd.

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TEST REPORT

Test Report No & Date	CTL/CH/N-29763/2024-25 & 03.10.2024				
Sample Number	N-29763/24-25				
Name of the Customer	M/S. TANIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II.				
Address	Mondépané Village, K.Periyapatti Post, Manapparai Taluk.				
	Tricby District - 621 306, Tamil Nadu.				
Sample D- «wn by	Lahoratory				
Sample Name	Ambient Air				
Sample Description	Ambient Air Quality Monitoring				
Sampling Location	WEST ENTRANCE GATE (RIGHT SIDE 50 METERS AWAY FROM THE GATE, LO 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-89 & IS 5182 (Part V) and (Part XIV)				
Sample Quantity	1 No				
Equipment used for Sampling	RDS Sampler S.No: 1985- 0TD-2016				
Analysis Started on	23.09.2024				
Analysis Completed on	03.10.2024				
Environmental Condition					
Relative Humidity	6496				
Ambieut Temperature	33°C				
Wind Direction	S1¥				
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	PARTIONATE MATTER (PM ₂₅)	IS 5182 (Part 24)	µg/m³	28.5	
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 (Part 23)	∎g/m ³	o2.7	100
Э	SULPHUR DIOXIDE (SO ₁)	IS 5182 (Part 2)	MR/m ³	16.7	80
1	OXIDES OF NITROGEN (NO ₂)	16 \$182 (Pare 6)	1-8/40-3	31.5	69
5	OZONE (O1)	CTL/SOP/AIR/08	μg/m ³	44.5	180
6	LEAD (Ph)	IS 5182 (Part 22)	μg/m ²	BLQ(LOQ-0.05)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23	ng/m²	BLQ(LOQ.1.15)	4
8	AMMONIA (NH3)	(\$ \$ 182 (Part 25)	ug/m‡	27	400
9	ARSENIC (As)	CTL/SOP/AIR/96	4g/04 ⁷	BLQ(LOQ-1 0)	6
1Ŵ	NICKEL (Ni)	IS \$182 (Part 26)	ng/m³	BLQ(LOQ:2.0)	20
11	REMOXENTE (C., M.)	(\$ 5182 (Part 11)	µg/m ²	BLQ(LOQ-1.0)	5
12	8FMTO(a)PYRENE	IS 5102 (Part 12)	որ,/ու՝	DLQ(LOQ:0.5)	I
13	HYDROGEN SULPHIDE(H2S)	IS 5182 PART 07	µ¢,∕an ³	BLQ(LOQ:6-0)	

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For Chennel Testing Laboratory Pvt Ltd.

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Page 1 of 2

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TEST REPORT

CTL/CH/N-29763/2024-25 & 03.10.2024

 SL.ND
 PARAMETERS
 METHODS
 UNITS
 RESULTS
 NAAQS*

 14
 MERCURY (Hg)
 CTL/SOP/A/R/25
 #g/m³
 BLQ(LOQ.0.01)
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"National Audient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vale Gazette Not|Scation G.S.R. 826(E) doced 10 11.2009,

BLQ - Below Limit of Quantification; 400 - Limit of Quantification.

END OF REPORT

For Chennal Testing Laboratory Pet Ltd rised Signatory

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G. NANIKANDAN Head - Environment Olvision (CHEMICAL)

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TEST REPORT

I-29767/24-25 I/S. TAMIL NAOU NEWSPRINT AND PAPERS LIMITED - UNIT II, Iondipani Village, K.Periyapatti Post, Manapparai Taluk, rjeby District - 621 306, Tamit Nadu.
londipatti Village, K.Pernyapatti Post, Manapparai Taluk,
richy District - 621 306, Tamii Nadu.
aboratory
mblen: Air
mblent Air Quality Monitoring.
IALAYA GOUNDER HOUSE, PERIYAPPATI VILLAGE
9.09.2024 & 12.40 to 20.09.2024 & 12.40
2.09.2024
TL/QSP/E-89 & IS 5182 (Part V) and (Part XIV)
No
IDS Sampler 5.No:1985-DTD-2016
3.09.2024
3.10.2024
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P [*] C
W

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

DISCIPLINE : CHEMICAL

SU NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS
1	PARTICULATE MATTER (PM _{2.5})	15 5162 (Part 24)	មន/គា	17.2	60
2	PARTICULATE MATTER (PM10)	IS 516Z (Part 23)	ug/m ³	47.6	100
З	SULPHUR DIOXIDE (SO2)	15 5102 (Part 2)	MS/m ³	6.7	80
4	OXIDES OF NITROGEN (NO ;)	4\$ 5182 (Part 6)	∎g/m³	LZ.5	80
5	020NE (0,)	Crt./S0P/Auk/08	ին/այ	215	180
\$	LEAU (Pb)	JS 5102 (Part 22)	μg/m²	BLQ(LOQ:0.05)	I
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23	mg/or ²	BLQ(LOQ:1-15)	4
9	АМНОКІА (NII3)	15 5182 (Part 25)	he/or ₃	9.2	400
9	ARŠENIČ (AS)	CTL/SOP/AIR/06	ng/m [*]	BLQ(LOQ:1.0)	6
10	NIČKEL (NI)	IS \$182 (Part 26)	ng/m ³	81/Q(1/0Q-2.0)	20
п	BENZENE (C.,H.;)	IS \$182 (Part 11)	រនេ ^រ ៣ ²	BLQ[LOQ: 1.0]	5
12	of"""(a)PYRENE	IS 5182 (Part 12)	ng/m ¹	BLQ[LO@0.5]	1
13	HYDROGEN SULPHIDE(H25)	IS 5182 PART 07	hR\u_j	800(000:60)	

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For Chokinal Toating Laboratory Pet Ltd

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TEST REPORT

CTL/CH/N-29767/2024-25 & 03.10.2024

SLNO	PARAMETERS	M6THOD5	UNITS	REŠŲLTŠ	NA4ŲŠ*
14	NERCURY (Hg)	CTL/SOP/AIR/25	µg/m¹	BLQ(LOQ-0.01)	-

*National Amblent Air Quality Standards prescribed by Ministry of Environment and Forests, Lowertaneou of India Vice Gateba Nonlication G.S.R. 626(E) dated 16.1 (2009).

BLQ - Below Linits of Quantification, 1/0Q - Limit of Quantification.

END OF REPORT

Test Report No & Date

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rised-512 atory G. MANKANDAN Head - Environment Civision (CHEMICH!.)

For Chennal Testing Laboratory Pville

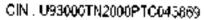
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TEST REPORT

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	Mondiparti 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	ŚW	
Weather Condition	Clear 5ky	
Text Results:		

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	PARTNAN ATE MATTER (PMLs)	IS \$102 (P=1 24)	M8/m2	20.6	60
2	PARTICULATE MATTER (PM ₁₀)	(\$ 5 182 (Part 23)	ug/m ³	51.5	100
3	SULPHUR DIOXIDE (SQ ₂)	IS \$182 (Part 2)	µg/m³	71	80
4	OXIDES OF NITROGEN (NEI2)	(\$ 5182 (Part 6)	kg/in ²	J4.5	
5	020NE (0 ₃)	CTL/SOP/AIR/04	rg/ m ²	16.0	180
6	LEAD (PL)	15 51 82 (Part 22)	40/m ³	BLQ(1.00x0.05)	1
?	CARBON MONOXIDE (CO)	CTL/SOP/AIR/24	mg/m²	BLQ(LOQ:1.15)	
B	AMMONIA (NH ₃)	I\$\$182 (Part 25)	μg/m ²	10.2	400
9	ARSENIC (As)	CTL/SOP/AIR/06	14g/ca ³	BLQ(LO(:1.0)	 6
10	NICKEL (NI)	IS 5182 (Part 26)	Ng/m ³	BLQ(L0Q:2.0)	20
11	DENZENG (C ₆ H ₄)	JS 5182 (Parr 11)	Hat/m [‡]	BLQ(LOQ 1.0)	
12	BENZO(4)PYRENB	15 5182 (Part 12)	aig/m²	BLQ(L00:0.5)	
13	HYDROGEN SULPHIDE(H,S)	IS 5182 PART 07	µg/m ³	BLQ(LOQ-6.0)	

For Chennel Testing Laboratory Pvt Ltd

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TEST REPORT

Test Report No & Date CTL/CH/N-29768/2024-25 & 03.10.2024

SL.NO	PARAMETERS	METHODS	CINITS	RESULTS	NAAQS*
14	NERCURY (Hg)	CTL/SOP/AIR/25	µg/m²	BCQ(LOQ:0.01)	

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Parests, Government of Indua vide Gazette Notification G.S.A. 826[6] dated 18.11.2009

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

***END OF REPORT ***

For Chunnai Tusting Laboratory Pet Ltd

Page 2 of 2

ANIKANDAN G. 87 Head - Erwapsamen, Division (CHEMICAL)

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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 IL	
Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,	
	Trichy Elstrict - 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-HV & 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	23.09.2024	
Analysis Completed on	03.10.2024	
Environmental Condition		
Relative Humidity	64%h	
Ambient Temperature	35°C	
Wind Direction	51 4	
Weather Condition	Clear Sky	

Test Besalts:

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

DISCIPLINE: CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

ORDOR	ALDIOSPHERIC FOLLOTION				
SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQ5"
3	FARFICULAVE MATTER (FM _{2.5})	15 5 102 (Part 24)	µg/m ¹	24.0	60
2	PARTICULATE MATTER (PM10)	15 S 162 (Part 23)	րեն, այ	53,8	100
3	SULPHUR DIOXIDE (SO2)	IS 5102 (Part 2)	µg/m ³	72	60
٠	OXIDES OF NITROGEN (NO ₁)	15 5183 (Part 6)	₩K\.uu ₂	[3.0	BQ
5	OZONE (O ₃)	CTL/SOP/AIR/08	øg/m ⁴	125	180
6	LEAD (Pb)	(\$ 5 IB2 (Part 22)	pg/m ³	BLQ(LOQ:0.05)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AJR/23	mg/m*	Brd(rod:r.rs)	4
8	AMMONIA (NH ₂)	I\$ \$ 182 (Part 25)	MR/m ³	8.7	400
. 9	ARSENIC (As)	CTL/SOP/AIR/06	ng/m²	BUQ(LOQ:1.0)	6
10	NJCKEL (NJ)	IS 5182 (Part 26)	∎g/m³	BLQ(L0Q:20)	20
-11	B:ZEHE (C _v R ₀)	IS 5182 (Para 11)	≓g/rs ³	BLQ(L0Q:1.0)	s
12	DEN2Q())IYTICHE	15 STH2 (Part 13)	eg/re ³	BLQ(LOQ 0 5)	1
13	NYDROGEN SULPHIDE(H25)	(\$ 5182 PART 07	⊨E/TA ³	BLQ(L0Q:6.0)	-

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G. MANIKANOAN

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Page 1 of 3

Head - Environment Division

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Test Report No & Date

TEST REPORT

CTL/CH/N-29769/2024-25 & 03.10.2024

SI NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQ5"
14	NERCURY (Hg)	CTL/SOP/AJR/25	₩S/100 ¹		

*National Ambient Air Quality Standards prescribed by Manistry of Environment and Forests. Covernment of India vide Gazette Notification G.S.P. B26(E) Qualet 18.11.2009.

BLQ - Below Limit of Quantification, LOQ - Limit of Quantification.

END OF REPORT

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Auth ed Segnarde Page 2 of 1 G, MANIKANDAN

For Chennal Testing Laboratory Pvi Ltd

Head - Edveronment Division

File Report shell not be used to maken abform and for the rechtrook derbrief. File Report of Hook only for sole risk ayour administration promote Mother even (analysis)

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

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

		rint and Pap er Stack Mor		
Date	STACK-CO (mg/Nm ²)	STACK-Nox (mg/Nm ²)	STACK-PM (mg/Nm ³)	STACK-SO2 (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	\$8.42
17-04-2024	1.75	\$5.88	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	64.38	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	16.21	53.86
25-04-2024	1.91	67.1	17.03	56.65
26-04-2024	1.96	70.8	27.93	\$9.79
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	\$3.9
30-04-2024	1.68	65.2	16.53	54.97
Мах	2	102	25	86
Min	2	56	11	47
Ave	2	77	19	66

B.B.K. Managez (Mach) Fritogy

SM (Enst) Snugy Dept. PA

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

Online	Power Boile	er Stack Moi	nitoring - Ma	y'2024
Date	STACK-CO (mg/Nm ¹)	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	72.87	18.42	61.43
05-05-2024	1.99	72.66	18.38	61.3
05-05-2024	1.96	71.76	18.16	60.56
07-05-2024	1.98	73	18.45	61.5
06-05-2024	1.95	70.77	17.92	59.72
09-05-2024	1.94	69.27	17.56	58.54
10-05-2024	1.98	72.01	18.22	60.72
11-05-2024	1.97	71.5	18,1	60.34
12-05-2024	193	68.98	17.47	58.13
13-05-2024	L.84	62.03	15.79	\$2.46
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	\$6.45
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
Ave	Z	61	15	58

B. B. K. Energy(mech)

SMES Smergy Dypt.

GENERAL MANAGER RAD AND QC TAMILINADU NEWSPRINT AND PAPER'S LIMITED (BOARD DMISION) MONDIPATTI, K.PERIYAPATTI (PO), MANAPPARAI (TK.), TRICHY (DT)-621306.

Online	Power Boik	er Stack Moi	hitoring - Jur	wa'2024
Date	STACK-CO (mg/Nm ¹)	STACK-Hok (mg/Nm ³)	STACK-PM (mg/Nm ³)	STACK-SO2 (mg/Nm ³)
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	\$3.05
05-06-2024	1.93	68.18	12.69	\$7.57
06-06-2024	1.9	67.06	12.47	\$6.48
07-06-2024	1.88	65.26	12.18	55.23
08-05-2024	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	\$7.08
12-06-2024	1.91	68.26	12.7	57.61
13-06-2024	1.96	70.74	13.15	\$9.88
14-06-2024	1.95	70.44	13.09	\$9.43
15-06-2024	1.8	59.53	11.14	50.23
16-06-2024	1.78	57.93	10.85	48.97
17-06-2024	1.8	58.88	11.04	49.87
18-06-2024	1.89	65.83	12.25	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	\$7.51
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
Ave	ž	78	13	58

B. Buc Managos (Mach) Enesgy

SM(R) Energy Dopt.

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

Online	Power Boil	er Stack Mo	nitoring - Jul	y'2024
Date	STACK-CO (mg/Nm ³)	STACK-Nox (mg/Nm ³)	STACK-PM (mg/Nm ²)	STACK-SO2 (mg/Nm ³)
01-07-2024	23	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
05-07-2024	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	\$9.67	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	14.58	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	9.9	28.34	13.43	125.31
23-07-2024	8.3	43.96	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	711.9
29-07-2024	7.87	72.62	10.92	221.6
30-07-2024	7.98	69.99	13.03	239.82
31-07-2024	7.83	68.58	15.64	235.04
Мак	ii	97	19	292
Min	Z	19	10	26
Avg	5	56	14	100

B. Bik Mangez(Mech) Enesgy

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SM(I) Snevyy Dapt.

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

		rint and Paper er Stack Mo		
Date	STACK-CO (mg/Nm ⁵)	STACK-Nox (mg/Nm ²)	STACK-PM (mg/Nm ³)	STACK-SO2 (mg/Nm ³)
01-08-2024	7.79	68.27	15.53	233.7L
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
09-06-2024	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	\$7.12
14-08-2024	0.2	39.82	16.73	42.92
15-08-2024	9.65	44.95	25.87	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	\$1.36	17.13	79.29
20-08-2024	0.2	63.29	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	95.98	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	130.06	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
ANE	6	75	16	120

B Brix Manager (Mach) Energy

SM-23+ SM-23+ Shergy

GENERAL-MANAGER R&D AND OC TAMILMADU KEWSPRINT AND PAPERS LIMITED (BOARD DIVISION) MONDIPATTI, K.PERIYAPATTI (PO), MANAPPARAI (TK.), TRICHY (DT)-621808.

		rint and Pap		
Online	Power Boil	er Stack Mo	nitoring - Se	p'2024
Date	STACK-CO (mg/Nm ³)	STACK-Nox (mg/Nm ³)	STACK-PM (mg/Nm ³)	STACK-SO2 (mg/Nm ³)
01-09-2024	0.2	143.29	18.36	177.13
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	29.11	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	59.28
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-Bric Manager (Mech) Energy

SM-Jut SM-Jut Sneigy

GENERAL MANAGER R&D AND QC TAMILNADU NEWSPRINT AND PAPERS LIMITED (BOARD DIVISION) MONDIPATTI, K.PERIYAPATTI (PO), MANAPPARAI (TK.), TRICHY (DT)-821308





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TEST REPORT

Test Report No & Date	CTL/CH/N-21512/2024-25 & 03.05.2024				
Sample Number	N-21512/24-25 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED • UNIT 11, Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,				
Name of the Customer					
Address					
	Truchy Distinct • 621 306, Tamli 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				
ample 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 NEIGHT (m)	300				
STACK TEMPERATURE (K)	401.0				
STACK VELOCITY (m/s)	12.3				
STACK GAS FLOW RATE (Nm ³ /hr)	137053.9				
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:

SLND	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS(as per EC condition)
1	OXIDES OF NITROGEN NOT (as NO $_2$)	IS 13255 PART 7 2005 (R 2017)	mg/Nm ³	121	
Ż	SULPHUR DIOXIDE (SOy)	IS 11255 PART 2 1985 (R 2019)	mg/Nm ³	265	
3	PARTICULATE MATTER(PM)	45 11255 PART I 1985 (R 2019)	mg/Nm ³	24.1	50
4	CARDON MONOXIDE (CD)		руин	32	
5	CARBON DIOXIDE (CO ₂)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	*	12 5	1+
6	OXYG EN (0 ;)		%	8.0	**

* Air Pollution Control Measures

**Depending on the local situation, state pallution control board will prescribe the standards.

BDL- Delow Detection Limit , D.L-Detection Limit

END OF REPORT

Por Chennal Testing Laboratory Pvi Etd

ANndia

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A - Super 19, T.V.K. Industrial Estate, Guindy, Chennal - 600 03

Phone : +91-44-2250 1757 | E-mail : chennaitesting@696/mail@2011000

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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, Mondipatti Village, K.Periyapatti Post, Monapparat Taluk.				
Address					
	Truchy District - 621 306. Tanil Nadu.				
Saniple Drawn by	Laboratory				
Sample Name	Stack Emission				
Sample Description	Stack Emission Monitoring				
Sampling Location	Stack attached with POWER BOILER				
Sumple Drawn on	21.05.2024				
Sample Received on	24.05.2024				
Sampling Plan & Procedure	CT1/QSP/F-89 & JS 11255				
Sample Quantity	LNo				
Equipment used for Sampling	Stack Kit 269 DTI 2020				
Analysis Started on	24.05 2024				
Analysis Completed on	30.05.2024				
PHYSICAL PARAMETERS:					
\$FACK ΠΕΙGHT (m)	100				
STACK TEMPERATURE (K)	405.0				
STACK VELOCITY (ni/s)	12.0				
STACX GAS FLOW RATE (Nm ³ /hr)	132821.5				
DIAMETER OF STACK AT PORTHOLE (m)	3.4				
APCM STATUS AT THE TIME OF SAMPLING	BSP - 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 <oudition)< th=""></oudition)<>
	OXIDES OF NITROGEN NO ₂ (as NO ₂)	IS 11255 PART 7 2005 (R 2017)	mg/Nm ³	160	
Z	SVLPHUR DIOXIDE (50 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)		ррта	57	
\$	CARBON DIOXIDE (00,)	CTL/SOP/STACK/10-2016 (Flue Cas Aqui yser)	%	10.7	
	OXYGEN (03)	l	ж	9.6	

*Air Poliupon 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 Chennal Testing Laboratory Pvt Ltd

Verified by

The Accord Shall and be used to make a where a serier say metal to south a Michon Sad Storatory The Accord Shall and for take use of the addressive to provide Judget can being the MIKANDAN

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Phone : +91-44-2250 1757 J E-mail : chennaltesting@chennaitestinglab.com www.ctllabs.in



TEST REPORT

Test Report No & Date	CTL/CH/N-24941/2#24-25 & 03.07.2024				
Sample Nataber	N-24941/24-25				
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,				
Address	Mondiparti Village, K.Pertyapath Post, Manapparal Taluk,				
	Trichy District - 621 306, Tamil Nada.				
Sample Drawn by	Laboratory				
Sample Name	Stach 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/Q\$P/F-89 & IS 11255				
Sample Quantity	I 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 HEIMMER (or)	100				
STACK TEMPERATURE (K)	420.0				
STACK VELOCITY (m/s)	12.6				
STACK CAS FLOW RATE (Nor ⁴ /br)	133424.2				
DIAMETER OF STACK AT PORTHOLE (m)	3.4				
APON STATUS AT THE TIME OF SAMPLING	ESP - ON Condition				
Test Results:					
The above sample tested as received, and result	is are as follows:				

SL NO	PARAMETERS	METHOD	loins	RESULTS	LIMITS(as per EC condition)
1	OKIDES OF NITROGEN NOX (25 NO 2)	(\$ 11255 PART 7 2005 (8 2017)	mg/Nm ²	147	**
. 2	SULPHUR DIOXIDE (90 ₂)	IS 11255 PART 2 1985 (8 2019)	ing/Plm ³	209	
3	PARTICULATE MATTER(PM)	15 11255 PART I 1985 (R 2019)	mg/Mas ³	20.4	50
4	CARBON WONDXIDE (CO)		ppm	49	
5	CARDION DIOXIDE (CID)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	*	11.6	די
	oxycrn (0,1		*	8.6	

Air Pollution Control Measures

*Depending on the local situation, state pollunos control board will prescribe the standards-

BDL: Below Depection Limit . D L-Detection Limit .

END OF REPORT

For Chemical Testing Laboratory Pvt Ltd.

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

Phone : +91-44-2250 1757 | E-mail : chennaitesting@chennaltestinglab.com www.ctilabs.in



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 IL				
Address	Mondiparti Village, K.Periyaparti 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				
Sampting Plan & Procedure	CTL/QSP/F-89 & IS 11255				
Sample Quantity	1 No				
Equipment used for Sampling	Stack Kit 288 DTI 2020				
Analysis Started on	01.08.20.24				
Analysis Completed on	07.09.2024				
PHYSICAL PARAMETERS:					
STACK HEIGHT (m)	100				
STACK TEMPERATURE (K)	406.0				
STACK VELOCITY (m/s)	13.6				
STACK GAS FLOW RATE (Nm ³ /hr)	149582.0				
DRAMETER 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	PARANETERS	метноо	UNITS	RESULTS	LIMITS(as per EC condition)
	OXIDES OF NITROGEN NOV (44 NO ₂)	IS 11255 PART 7 2005 (R 2017)	mg/Nm ³	97	
2	SULPHUR DIOXIDE (SO2)	IS 11255 PART 2 1985 (8 2019)	mg/Nm ²	264	**
3	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985 (A 2019)	mg/Nm ³	168	50
•	CARBON MONOXIDE (CO)		ppm	10	**
5	CARBON DIOXIDE (CO ₄)	CTL/SOP/STACK/10-2016 (Rue Gas Analyser)	*	11.3	
٠	OXYGEN (Oz)		*i	9.6	+1

***Air Pollution Control Measures**

**Depending on the local smatton, state pollution control board will prescribe the standards

BDL- Below Derection Limit , DL-Derection Limit

""END OF REPORT ***

For Chennel Testing Laboratory Pvi Ltd.

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Page 1 of g

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TEST REPORT

Test Report No & Date	сть/сн/N-28111/2024-25 & 02.09.2024				
Sample Number	N-28111/24-25 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED · UNIT II, Mondiparti Village, K.Periyapatti Post, Manapparal Tatuk,				
Name of the Customer					
Address					
	Trichy District - 621 306, Tanili Nadu.				
Sample Drawn by	Laboratory				
Sample Name	Stack Emission				
Sample Description	Stack Emission Monitoring				
Sampling Location	Stack attached with POWER BOILER				
Sample Drawn on	Z1.08.2024				
Sample Received on	24.08 2024				
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 11255				
Sample grantity	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 PEIGHT (m)	100				
STACK TEMPERATURE (K)	411.0				
STACK VELOCITY (m/s)	13.5				
STACK GAS FLOW RATE (Nm ³ /hr)	147396.0				
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.

SLNQ	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS(as per EC condition)
1	OXIDES OF NITROGEN NOT (as NO ₂)	IS 11255 PART 7 2005 (A 2017)	nig/Nm ²	109	"
2	SULPHUR DIOXIDE (SO ₂)	LS 1055 PART 2 1985 (R 2019)	mg∕Nm ³	247	
3	PARTICULATE MATTER(PM)	IS L1755 PART 1 1985 (R 2019)	mg/Nm ¹	185	\$ 0
4	CARDON MONOXIDE (CO)		p pm	23	
5	CARBON DIOXIDE (CO ₂)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	*	11.5	
6	OXYGEN (O2)		%	4 .8	

***An PoBulion Control Measures**

**Depending on the local situation, store pollution control board will prescribe the standards.

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

END OF REPORT

For Chennel Testing Laboratory Pvi Lid

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A - Super 19, T.V.K. Industrial Estate, Guindy, Chennel - 600

Phone : +91-44-2250 1757 | E-mail : chennaitesling@chennaitesuitglab.com aryw.ctilat the www.ctllabs.in





TEST REPORT

Test Report No & Date	CTL/CK/N-29777/2024-25 & 03.10.2024				
Sample Number	N-29777/24-25				
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMPTED - UNIT II. Mondipatri Villago, K.Perlyapatti Post, Manapparai Taluk.				
Address					
	Trichy District - 621 306, Tamil Nadu.				
Sample Orawn by	Laboratory				
Sample Name	Stack Envisoon				
Sample Description	Stack Emission MonHoring				
Sampling Location	Stack attached with POWER BOILER				
Sample Draws os	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 Kir 286 DTI 2020				
Analysis Started on	23.09.2024				
Analysis Completed on	03.10.2024				
PHYSICAL PARAMETERS:					
STACK HEIGHT (m)	100				
STACK TEI>BRATURE (K)	374,0				
STACK VELOCITY (m/s)	13.0				
STACK GAS FLOW RATE (Nor '/Int)	155845_3				
DIAMETER OF STACK AT PORTHOLE (m)	3.4				
APCM STATUS AT THE TIME OF SAMPLING	ESP - ON Conduction				

Test Results:

The above sample bested as received, and results are as follows: DISCIPLINE CHEMICAL

ATMOSPHERIC POLILUTION GROUP

SL.NO	PARAMETERS	метнор	ŲNITS	RESULTS	f.IMITS(as per EC condition)
1	OXIDES OF NITROGEN NOX (as NO ₂)	IS 11255 (PART 7)	mg/Nm*	152	
z	SULPHUR DIOXIDE (50 ₂)	35 11255 (PART 2)	mg/Nm ⁴	313	
Э	PARTICULATE MATTER(PM)	IS (1255 (PART I)	mg/Nm ³	21.6	\$0
+	CARBON MONOXIDE (CO)		p pm	57	
5	CARBON DIOXIDE (CO2)	CTL/SOP/STACK/10 (Flue Gas Analyser)	54	10.9	**
ć	охусен (0 ₇)		*	9.1	-+

"Air Poligtion Control Measures

**Depending on the local situation, state pollution control board will prescribe the standards-

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

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For Circons) Testing Laboratory Pvt Ltd.



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A - Super 19, T.V.K. Industrial Estate, Guindy, Chennar - 600 032, Head - 504 WHINKING India Wohment Division

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		sprint and Pap				
Online Lime Kiln Stack Monitoring - April'2024						
Oate	Lime_kiin- H2S(mg/Nm3)	Lime_Kin- 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	1.96	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	125.23		
19-04-2024	1.98	41.35	13.08	118.15		
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	1.95	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	1.96	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	13.49	240.11		
29-04-2024	1.99	S4.61	13.74	259.73		
30-04-2024	1.99	40.47	14.73	108.82		
Мак	2	56	15	260		
Min	Z	33	12	81		
Avg	2	44	13	161		

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

Or	line Lime	Kiln Stack Mo	nitoring - May	y'2024
Date	Lime_Kiln- H2S(mg/N m3)	Lime_Klin- NOx(mg/Nm3)	Lime_Kiln- PM(mg/Nm3}	Lime_Kilm- 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
05-05-2024	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	181.69
09-05-2024	2.02	70.08	13.69	182.5
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
13-05-2924	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	\$3.7	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	21.65	184.94
28-05-2024	0.55	47.87	11.24	175.73
29-05-2024	0.65	69.03	11.38	185.17
0-05-2024	0.48	70.62	11.34	212.44
1-05-2024	0.44	64.64	11.27	213.46
Max	Z	97	20	213
Min	0	39	11	64
Avg	2	59	14	139

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GENERAL MANAGER RAD AND QC TAMIENADU NEWSPRINT AND PAPERS UMITED (BOARD DIMISION) MONDIPATTI, KLPERIYAPATTI (PO), MANAPPARAI (TK.), TRICHY (DT)-821308.

	milnadu News Inline Lime Kil			
Date	Lime_Kiin- H25(mg/(Im3)	Lime_Kiin- NOx(mg/Nm3)	Lime_kilo- PM(mg/Nm3)	Lime_Kiin- SOZ(mg/Nm3)
01-06-2024	0.42	47.83	11	193.94
02-06-2024	0.41	\$9.87	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	184.9
07-06-2024	0.44	55.4S	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	73.68	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	Q	34	12	102
Ave	0	56	11	191

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GENERAL MANAGER R&D AND QC TAMILNADU NEWSPRINT AND PAPERS LIMITED (BOARD DR.15ION) MONDIPATTI, K.PERIYAPATTI (PC). MANAPPARAI (TK.), TRICHY (DT)-621308.

		sprint and Pap		
	Onvine Lime A	iln Stack Moni	1 1	
Date	Lime_Kiin- H2S(mg/Nm3)	Lime_Kiin- NOx(mg/Nm3)	Lime_Kiln- PM(mg/Nm3)	Limu_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	45.72	11.03	215.42
07-07-2024	0.42	64.87	11.28	202.86
08-07-2024	0.43	\$9.66	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	62.47	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	0.84	59.48	10.93	141.57
19-07-2024	0.46	79,74	11	189.98
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	74.21	10.8	162.03
25-07-2024	0.46	62.78	12.01	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	10.88	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
Ave	1	60	11	174

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

	Tamilnadu News			
Date	Lime_Kim-	in Stack Monito	Lime_(Gln- PM(mg/Nm3)	uine_Kiin- SO2(mg/Nm3)
	H2S(mg/Nm3)	NOx(mg/him3)	a collective council	Section and the section of the secti
01-08-2024	1.02	58.51	11.06	144.33
02-08-2024	2.88	27.12	11.09	62.98
03-09-2024	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	139.75
09-06-2024	0.55	213.67	11.21	230.15
10-08-2024	0.55	198.63	11.36	215.16
11-08-2024	0.55	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	\$1.15	202.23
15-08-2024	0.53	203.21	11.22	218.36
26-08-2024	0.55	171.68	11.18	211
17-08-2024	0.53	136.6	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
21-06-2024	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	210.49
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	L61.59	10.64	188.81
30-08-2024	0.61	175.34	11.02	199.01
31-06-3024	0.61	233.44	10.87	207.\$5
Max	3	271	11	230
Min	0	27	11	63
Ave	1	168	11	192

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

	Tamilnadu New			
		iln Stack Monite	Ume_Kim-	ca Lime_Kilo-
Dale	Lime_Kilm- H25(mg/Nm3)	Lime_Kin- NOx(mg/Nm3)	PM(mg/NmS)	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	202.03
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	194.69
24-09-2024	0.67	59.05	10.85	204.33
25-09-2024	0.68	67,4	10.89	228.85
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	\$3.36	10.99	240.59
30-09-2024	0.69	69.8	10.8	226.75
Max	1	279	11	260
Min	1	29	10	\$2
Avg	1	145	11	212

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





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TEST REPORT

Test Report No & Date	CFL/CH/N-21513/2024-25 & 03.05.2024				
Sample Number	N-21513/24-25				
Name of the Customer	M/S. TAMU, 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	Stack Emission				
Sample Description	Stack Emission				
Sampling Location	Stack attached with LIME KILN				
Sample Drawn on	24.04.2024				
Jample 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	03.05.202+				
PHYSICAL PARAMETERS:					
STACK HEIGHT (m)	53.8				
STACK TEMPERATURE (K)	468.0				
STACK VELOCITY (m/s)	11.7				
STACK GAS PLOW RATE [Nm ³ /hr]	40975.2				
DIAMETER OF STACK AT PORTHOLE (m)	1.4				
*APCH STATUS AT THE TIME OF SAMPLING	ESP - ON Condution				
<u>Test Results:</u>					

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

- 3E-NG	PARAMETERS	NETHOD	UNITS	RESULTS
•	OXIDES OF NITROGEN NOX (as NO ₂)	IS 11255 PART 7 2005 (R 2017)	mg/Nm ³	78
2	SQLPITUR DIOXIDE (SO ₁)	ts 1 t 255 (ART 2 1985 (R 2019)	መያ/የነመ ¹	360
з	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985 (R 2019)	ing/Nin ⁰	1*1
4	CARBON NONOXIDE (CO)		ррт	312
5	CARBON DIOXIDE (CO3)	CTL/SOP/STACK/10-2016 (Flue Gas Anelyser)	96	16.4
6	оху с ен (0 ₂)		*	4.2

For Chennal Testing Laboratory Pvt Ltdf

Page 1 of 2

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TEST REPORT

Test Report No & Date CTL/CH/N-215t3/2024-25 & 03.05.2024

SL-NO	PARAMETERS	метнор	UNITS	RESUL75
7	MOISTURE CONTENT	IS IT 255 PART 3 2008	*	3.2
1 1	HYDROGEN SILPHIOE(H ₂ S)	I\$ 11255 PART 4 2006	ppin	7

END OF REPORT

For Chennal Testing Laboratory Pvt Ltd

Authorized Signatory G. MANIKANDAN Tuge 2 of 2 Head - Environment Division (CHEMICAL)

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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-22650/2024-25 & 30.05.2024			
Sample Number	N-22650/24-25 N/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II, Mondipatti Village. K Periyapatti Post. Manapparai Taluk.		
Name of the Customer			
Address			
	Trichy District 621 306, Tamil Nadu.		
Sample Drawn by	Laborarory		
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-89 & IS 11255		
Sample Quantity	L 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)	123		
STACK GAS FLOW RATE (Nm³/hr)	41014.5		
DIANETER OF STACK AT PORTHOLE (m)	1.4		
*APCM STATUS AT THE TIME OF SAMPLING	ESP - ON Condition		
Test Results:			

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

SEIND	PARAMETERS	метнор	UNITS	RESULTS
L	ÓXIDES OF NITROGEN NOX (25 NO ₇)	1S 11255 PART 7 2005 (R 2017)	nig/Nmi ³	85
Ż	SULPHUR DIOXIDE (SO3)	IS LI 255 PART 2 1985 (R 2019)	mg/Nm ⁷	324
з	РАЯТИЛИАТЕ МАТТЕЯ(РМ)	IS 11255 PART 1 1985 (R 2019)	mg/Nm ³	21.9
1	CARBON MONOXIDE (CO)	"	ррша	352
5	CARDON DIOXIDE (CO ₂)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	**	13.5
6	OXYGEN (O ₂)		%	4.3

For Chennal Testing Laboratory Pvt Ltd

Author mator

G. MANIKANDAN De Agent & and an only a date of for synam Hond - Environment Division The Agent & manufacture of the officience of stands by the interview for the Michael Industrial Estate Gunoth Chapters - 200 ADA

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Page 1 of 2



Test Report No & Date

TEST REPORT

CTL/CH/N-22650/2024-25 & 30.05.2024

SI.NO	PARAMETER5	метнор	UNITS	RESULTS
7	MOISTURE CONTENT	/5 11255 PART 3 2008	96	35
6	HYDROGEN SULPHIOE(H ₂ S)	(\$ 11255 PART 4 2006	ppm	6

END OF REPORT

For Chennal 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-24942/2024-25 & 03.07.2024		
Sample Number	N-24942/24-25		
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II, Nondipatti Village, K Periyapatti Pest, Manapparai Taluk,		
Address			
	Trichy District - 621 306, Tamil Nadu.		
Sample Drawn by	Laboratory		
Sample Name	Stack Enussion		
Sample Description	Emission Monitoring For Process Stacks		
Sampling Location	Stack attached with LIME KILN		
Sample Drawn ou	25.06.2024		
Sample Received on	27.06 2024		
Sampling Plan & Procedure	CTL/Q\$P/F-89 & IS 11255		
Sample Quantity	1 140		
Equipment used for Sampling	Stack Kiz 288 DTI 2020		
Analysis Started on	27.06.2024		
Analysis Completed on	03.07.2024		
PHYSICAL PARAMETERS:			
STACK HEADHT (m)	53.8		
STACK TEMPERATURE (K)	485.0		
STACK VELOCITY (m/s)	12.3		
STACK GAS FLOW RATE (Nm ³ /br)	4)828.7		
DIAMPTER OF STACK AT PORTHOLE (m)	1.4		
*APCM STATUS AT THE TIME OF SAMPLING	ESP - ON Condition		
Test Results:			

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

SL.NO	PARAMETERS	метнор	UNITS	RESULTS
1	OXIDES OF NITROGEN NOv (as NO ₂)	(\$ 11255 PART 7 2005 (R 2017)	ang/Nm ³	94
z	SULPHUR DIOXIDE (SO2)	IS 11255 PART 2 1985 (R 2019)	mg/Nm ³	315
3	PARTICULATE MATLER(PM)	IS 33255 PART 1 1985 (8 2019)	org/Nm ³	23.6
+	CARBON MONOXIDE (CO)		ррт	245
 5	CARDON DOXIDE (CO ₃)	CTU/\$0P/\$TACK/10-2016 (Flue Gas Analyser)	*6	15.6
6	OXYGEN (Oz)		*	• 4.2

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Page 1 of 2

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TEST REPORT

 Test Report No & Date
 CTL/CH/N-24942/2024-25 & 03.07.2024

 SL.NO
 PARAMETERS
 METHOD
 UNITS
 RESULTS

7	MOISTURE CONTENT	IS 11255 PART 3 2008	%	3.1
8	HYDROGEN SULPHIDE(H2S)	IS 11255 PART 4 2006	pprin	7

END OF REPORT

For Chennal Testing Laboratory Pet Ltd

Authorised Signatory

G. MANIKANDAN Head - Environment Covision (CHEMICAL)

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TEST REPORT

Test Report No & Date	CTL/CH/N-26966/2024-25 & 07.08-2024		
Sample Number	N-26966/24-25 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II, Mondipata Village, K.Periyapatti Post, Manapparai Taluk,		
Name of the Customer			
Address			
	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 & JS 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		
PHYSICAT PARAMETERS:			
STACK BEIGHT (m)	53.8		
STACK TEMPERATURE (6)	4810		
\$TACK VELOCITY (m/s)	122		
STACK GAS FLOW RATE (Nm ³ /hr)	41738.7		
DIAMETER OF STACK AT PORTHOLE (m)	1.4		
*APON STATUS AT THE TIME OF SAMPLING Test Results	6SP - ON Condicion		

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

SLINO	PARAMETERS	METHOD	UNITS	RESULTS
1	OXIDES OF NITROGEN NOC (25 NO2)	IS 11255 PART 7 2005 (R 2017)	mg/Nm ³	102
2	SULCHUR DIOXIDE (\$0 ₇)	(\$ 11255 PART 2 1985 (R 2019)	mg/N™²	217
3	- PARTICULATE MATTER(PM)	IS 11255 PART J 1985 (R 2019)	mg/Nu²	27.5
4	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	nda	201
5	CARBON DIOXIDE (CO2)		*	14.7
6	OXYGEN (02)		%	5.6

For Chennal Testing Laboratory Pet Ltd

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TEST REPORT

Tost Report No & Date CTL/CH/N-26966/2024-25 & 07.08.2024

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
,	MOISTURE CONTENT	IS LL255 PART 3 2000	٣	3.6
*	HYDROGEN SULPHIDE(H ₁ S)	IS 11255 PART 4 2006	ppm	В

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For Chennal Testing Laboratory Pvt Ltd

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

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TEST REPORT

Test Report No & Date	CTL/CH/N-20112/2024-25 & 02.09.2024		
Sample Number	N-20112/24-25 N/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II, Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,		
Name of the Customer			
Address			
	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/Q\$P/F-39 & IS 11255		
Sample Quantity	1 No		
Equipment used for Sampling	Stack Kit 288 DTV 2030		
Analysis Started on	24.08.2024		
Analysis Completed on	02.09.2024		
PHYSICAL PARAMETERS			
STACK HEIGHT (m)	530		
STACK TEMPERATURE (K)	500.0		
STACK VELOCITY (m/s)	12.7		
STACK GAS FLOW RATE (Nm ¹ /hr)	41699.3		
DIAMETER OF STACK AT PORTHOLE (m)	14		
'APEM STATUS AT THE TIME OF SAMPLING	BSP - ON Concern		
Task Bassalles			

<u>Teşi Results:</u>

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

SL.NO	PARAMETERS	METHOD	UNIT5	RESULTS
Т	OXIDES OF NITRUGEN NOR (as NO2)	IS J 1255 PART 7 2005 (R 2017)	mg/Nm ⁾	127
2	SULPHUR DIOXIDE (SO2)	IS 11255 PART 2 1985 (R 2019)	mg/Nm²	151
Е	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985 (R 2019)	mg/Mm ³	29.6
đ	CARBON MONOXIDE (CO)		ppen	189
5	CARBON DIOXIDE (CO ₁)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	%	14.5
6	οχγσεν (0 ₂)		*6	5.7

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TEST REPORT

Test Report No & Date	CTL/CH/N-28112/2024-25 & 02.09.2024			
1 2				· · · · · · · · · · · · · · · · · · ·

SLNO	PARAM ETERS	METIJOD	UNITS	RESULTS
7	MOISTURE CONTENT	IS 11255 PART 3 2008	%	4.1
8	NYDROGEN SULPHIDE(H ₂ S)	IS 11255 PAOP 4 2004	n bw	5

END OF REPORT

For Chennal Testing Laboratory Pvt Ltd

Authorised Supprivery G MANIKANDAN Page 2 of 2 Head | Environment Division (CHEMICAL)

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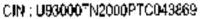
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TEST REPORT

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.Periyapatu 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/Q\$P/F-89 & IS 11255				
Sample Quantity	1 No				
Equipment used for Sampling	Stack KR 288 DTI 2020				
Analysis Started on	23.09 ZU24				
Analysis Completed on	0 3.10.2024				
PHYSICAL PARAMETERS:					
STACK HEIGHT (m)	53.8				
STACK TEMPERATURE (K)	508 0				
STACK VELOCITY (m/s)	124				
STACK GAS FLOW RATE (Nm ² /hr)	41863.7				
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

DISCIPLINE : CHEMIKAE

: ATMOSPHERIC PULLUTION GROUP

SL.NO	PARAMETERS	METHOD	IDNITS	RESULTS
L	OXIDES OF NITROCEN NOX (as NO ₂)	IS 11255 (PART 7)	mg/Nm ³	167
2	SULPHUR DIOXI DE (SO ₂)	IS 11255 (PART 2)	mg/Nin [‡]	366
3	PARTICULATE MATTER(PM)	IS 11235 (PART I)	mg/Nm ²	31.6
4	CARBON MONOXIDE (CO)		ppre	51
\$	CARBON DIOXIDE (CO2)	CTL/SOP/STACK/10 (Flue Gas Analyser)	*	13.4
6	OXYCEN (D2)		96	6.2

For Chennal Testing Laboratory Pvt Ltd

A - Super 19, T.V.K. Industrial Estate, Guindy, Chemia Contract, January Janiery A - Super 19, T.V.K. Industrial Estate, Guindy, Chemia Contract, Janier Nadu - India

Page 1 of 2



TEST REPORT

Test Report No & Date CTL/Cfl/N-29770/2024-25 & 03-10-2024

SINO	PARAMETERS	METHOD	UNITS	RESULTS
7	MOISTURE CONTENT	15 11255 PART 3 2008	94	4.7
ų	HYDROGEN SULPHIDE(H2S)	IS 11255 PART 4 2006	рүрип	ų

END OF REPORT

For Chennal Testing Laboratory Pvt Ltd

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G. NANIKANDAN Head - Emiliphineni Division (CHEMICAL)

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	nilnadu Newsp			
Unline Ch	emical Recove	ry Boller Stac	k Monitoring	- April 2024
Date	5RP_Boiler- M ₂ S(mg/Nm3)	SRP_Boller- NO(mg/Nm3)	SRP_Boller- PM(mg/Nm3)	SRP_Boiler- SO2(mg/Nm3
01-04-2024	0.62	107.65	78.35	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	0.62	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	\$\$.79	47.72	196.46
22-04-2024	0.64	\$6.92	46.35	145.67
23-04-2024	0.63	54.29	47.39	165.83
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	100.34
27-04-2024	0.63	81.09	74.13	103.16
28-04-2024	0.63	93.8	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
Мак	1	139	80	196
Min	1	18	42	51
Avg	1	66	60	127

m 18/11 MIN

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

	niinadu Newsp emical Recove			
Date	SRP_Boller- H ₃ S(mg/Nm3)	SRP_Boiler- NO(mg/Nm3)	SRP_Boiler- PM(mg/Nm3)	SRP_Boller- SO2(mg/Nm3)
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	\$8.59	153.54
05-05-2024	1.4	53 59	44.91	113.77
06-05-2024	1.39	59.23	31.64	109.35
07-05-2024	1.39	49.65	37.61	147.25
08-05-2024	1.4	\$1. 33	46.36	168.51
09-05-2024	1.4	54.81	52.32	135.14
10-05-2024	1.4	\$0.36	47.51	171.79
11-05-2024	1.4	46.74	43.79	135.08
12-05-2024	1.4	66.56	53.22	133.84
13-05-2024	1.41	60.8S	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	191.32
20-05-2024	2.4	135.94	36.3	78.51
21-05-2024	2.72	67.5	29.92	196.95
22-05-2024	2.57	74.6	25.29	175.07
23-05-2024	2.49	127.97	26.78	266.07
24-05-2024	2.78	134.27	23.84	186.55
25-05-2024	2.77	115.57	23.21	214.44
26-05-2024	2.68	175.7	26.8	163.78
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
Ave	Z	87	42	135

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GENERAL MANAGER R&D AND QC TAMILNADU NEWSPRINT AND PAPERS LIMITED (BOARD DMISION) MONDIPATTI, K.PERIYAPATTI (PO), MANAPPARAI (TK.), TRICHY (DT)-621304

	milnadu Newsj Namical Recove				
Online Chemical Recovery Boiler Stack Monitoring - June*2024					
Date	SRP_Boiler- H ₂ S(mg/Nm3)	SRP_Boiler- NO(mg/Nm3)	SRP_Boller- PM(mg/Hm3)	SRP_Boller- SO2(mg/Nm3)	
01-06-2024	2.77	97.43	43.13	102.23	
02-06-2024	2.64	83.82	44.19	173.72	
09-06-2024	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	¢2.17	30.85	35.34	
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	2.22	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	62.82	30.04	64.4	
23-06-2024	2.83	\$2.33	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	
Мак	3	97	45	229	
Min	2	42	25	24	
Ave	3	63	34	79	

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GENERAL MANAGER R&D AND QC TAMILNADU NEWSPRINT AND PAPERS LIMITED (BOARD DM/ISION) MONDIPATTI, K.PERIYAPATTI (PO), MANAPPARAI (TK.), TRICHY (DT)-521305.

	milnadu Newsj hemical Recovi			
Date	SRP_Boiler- H,S(mg/Nm3)	SRP_Boiler- NO(mg/Nm3)	SRP_Boiler- PM(mg/Nm3)	SRP_Boller- SO2(mg/Nm3)
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	139.18
04-07-2024	2.72	51.65	31.3	120.39
05-07-2024	3.19	65.89	39.33	\$4.06
06-07-2024	2.72	61.82	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	\$3.15	29.43	65.82
13-07-2024	2.03	53.44	30.79	\$7.97
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	\$8.6	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	53	24	39
Avg	3	52	37	90

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GENERAL MANAGER R&D AND QC TAMILNADU NEWSPRINT AND PAPERS LIMITED (BOARD DMISION) MONDIPATTI, K.PERIYAPATTI (PO), MANAPPARAI (TK.), TRICHY (DT)-621336.

	Tamilnadu New Chemical Reco		Online Chemical Recovery Boiler Stack Monitoring - Aug'2024					
Date	SRP_Boller- H ₂ S(mg/Nm3)	SRP_Boiler- NO(mg/Nm3)	SRP_Bailer- PM(mg/Nm3)	SRP_Boller- SO2(mg/Nm3)				
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 <i>5</i>	50.53	123.53				
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	2.47	58.83	36.33	98.95				
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				
20-05-2024	2.94	56.42	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	\$7.9	38.4	160.94				
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	89.94	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				
Mia	2	39	31	92				
Ave	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,

Online		vsprint and Pap overy Boiler Sta		
Date	SRP_Boller- H ₂ S(mg/Nm3)	SRP_Boiler- NO(mg/Nm3)	SRP_Boiler- PM(mg/Nm3)	SRP_Boiler- SO2(mg/Nm3
01-09-2024	1.6	70.B	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	26	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	30	63.1	37.0	153.9
10-09-2024	2.7	64.1	40.1	157.7
11-09-2024	Z.4	64.3	36.3	195.8
12-09-2024	1.3	\$9.9	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	63.2	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	63.6	46.6	231.4
25-09-2024	1.8	64.0	61.2	174.0
26-09-2024	2.9	65.0	58.6	213.9
27-09-2024	2.6	64.2	\$2.4	193.1
28-09-2024	2.7	62.5	57.9	221.5
29-09-2024	2.6	66.6	67.1	239.7
80-09-2024	2.8	63.4	61.8	232.9
Max	3	71	67	240
Min	0	55	31	103
Ave	2	63	42	163

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





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TEST REPORT

Test Report No & Date	CTL/CN/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 I), Mondipatri Village, K.Perlyapatti Post, Manapparai Taluk,				
Address					
	Trichy District + 621 306, Tamil Nadu.				
Sample Drawn by	Laboratory				
Sample Name	Stack Emission				
Sample Description	Stack Emission				
SamplingLocation	Stack attached with SODA RECOVERY BOILER				
Sample Drawn on	24 04.2024				
Jumple 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)	103				
STACK TEMPERATURE (K)	415.0				
STACK VELOCITY (m/s)	43.7				
STACK GAS FLOW RATE (Nm ³ /hr)	52573.3				
DIAMETER OF STACK AT PORTHOLE (m)	1.38				
*APCM STATUS AT THE TIME OF SAMPLING	ESP - ON Condition				
Test flesults:					

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

Ĵt_NO	PARAMETERS	METHOD	INITS	RESULTS
1	OXIDES OF NITROCEN NO» (as NO ₂)	(\$ 11255 PART 7 2005 (R 2017)	mg/Nin ^J	137
z	SULPHUA DIOXIDE (50;)	IS 11255 FART 2 1985 (R 2019)	mg/Nm ²	+2
3	PARTICULATE NATTER(PM)	IS 11255 PART 1 1985 (R 2019)	mg/Nm ³	37.2
4	CARBON MONOXIDE (CO)		ppm	BDL(DL:2.0)
5	CARBON DIOXIDE (CO ₂)	CTU/SOP/STACK/10-2016 (Plue Gas Analyser)	9 %	13.5
6	OXYGEN (O ₂)		9ù	6 .4

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For Chennal Testing Laboratory Put Ltd.

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A - Super 19, T.V.K. Industrial Estate, Guindy, Chennel - 690038/138/17 National

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TEST REPORT

Test Report No & Date

CTL/CH/N-21514/2024-25 & 03.05.2024

SL.NO	PARAMETERS	METHOD	UNIŢS	RESULTS
	MOISTURE CONTENT	IS 11255 PART 3 2008	¥9	2.2
۲ ۴	HYDROGEN SULPHIDE(H2S)	IŞ 11255 PART 4 2006	քքու	5

BD1/ **Below Detertion | Imit , D1-Detection Limit**

*** END OF REPORT***

For Chennel Testing Loboratory Pvi Ltd

£ Authorised Signatory

G. MANKANDAN Head - Environment Division (CMEMICAL)

Page 2 of 2

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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	N/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II.		
Address	Mondipatti Village, K.Periyapatti Post, Manapparal Taluk,		
	Trichy District - 621 306, Tami Nadu.		
Sample Drawn by	Laboratory		
Sample Name	Stack Emission		
Sample Description	Emission Manitaring For Process Stacks		
Sampling Location	Stack attached with SODA RECOVERY DOILER		
Sample Drawn on	22,05.2024		
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 266 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 (Nm ³ /hr)	50890.7		
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:

SLNO	PARAMETERS	метноф	ŲNĮTS	RESULTS
t	OXIDES OF NITROGEN NOX (as NO ₂)	IS 11255 PART 7 2005 (R 2017)	mg/Nm ³	101
2	SULPHUR DIOXIDE (SO ₂)	IS L1255 PART 2 1985 (R 2019)	mg/Nm ¹	60
3	PARTICULATE MATTER(PM)	IS L1255 PART 1 1985 (R 2019)	ng/Nm ³	41.3
•	CARBON MONOXIDE (CO)		ррт	201.(DI. 2.0)
5	CARBON DIOXIDE (CO2)	CTL/SOP/STACK/10-2016 (Plue Gas Analyser)	86	14.1
۰	OXYGEN (O2)		90	5.9

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For Chennal Testing Laboratory Per Ltd

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

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Page 1 of 2



TEST REPORT

Test Report No & Date	CTL/CH/N-22649/2024-25 & 30.05.2024

SL.NO	PARAMETERS	METHOD	UNATS	RESULTS
2	MOISTURE CONTENT	IS L1255 PART 3 2009	*	L.7
1 1	MYDROGEN SUEPHIDE(H,S)	IS L1255 PART 4 2006	ppm	8

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

END OF REPORT

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For Chennal 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/CII/N-24943/2024-25 & 03.07.2024		
Sample Komber	N-24943/24-25		
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT IL Mondipatti Village, K Periyapatti Post, Manapparai Taluk. Trichy District - 621 306, Tamil Nadu.		
Address			
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/F-89 & IS 11255			
Sample Quantity	1 No		
Equipment used for Sampling	Stack Kit 288 071 2020		
Analysis Started on	27.06.2024		
Analysis Completed on	03.07.2024		
PHYSICA: VARAMETERS			
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 PORTKOLE (m)	1.30		
PAPCM 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
ı	OXIDES OF NITROGEN NOx (as NO ₂)	IS 11255 PART 7 2005 (8 2017)	mg/Nm ²	109
z	SULPHUR DIOXIDE (SO;)	IS L1255 PART 2 1985 (R 2019)	mg/Nm ³	52
 ¥	PARTICULATE MATTER(PM)	I\$ 11255 PART 7 1995 (R 2019)	mg/Nm ³	32.5
4	CARBON MONOXIDE (CO)		רוויינא	CDL (DL:2.0)
\$	CARBON DIOXIDE (CO ₂)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	<u>4</u>	13.6
	OXYGEN (O2)	1	**	6.5

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TEST REPORT

Test Report No & Date CTL/CH/N-24943/2024-25 & 03.07.2024

SLINO	PARAMETERS	METHOD	UNİTS	RESULTS
,	MOISTURE CONTENT	IS 11255 PART 3 2008	%s	1.8
8	HYDROGEN SULPHIDE(H3S)	IS L1255 PART 4 2006	ррин	5

BDL- Below Detection Limit , D.L-Detection Limit

END OF REPORT

Verified by

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For Chennal Testing Laboratory Pvi Ltd

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

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CiN 1093000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-26965/2024-25 & 07.08.2024		
Sample Number	N-26965/24-25 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II, Mondipatti Village, K. Periyapatti Post, Manapparai Taluk,		
Name of the Customer			
Address			
	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	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 298 DTI 2020		
Analysis Started on	01.08.2024		
Analysis Completed on	07.08.2024		
PHYSICAL PARAMETERS:			
STACK HEIGHT (m)	103		
STACK TEMPERATURE (K)	(33.0		
STACK VELOCITY (m/s)	15.6		
STACK GAS FLOW RATE (No. ³ /hr)	57544 6		
DIAMETER OF STACK AT PORTHOLS (m)	1.30		
*APCM SYACUS AT THE TIME OF SAMPLING	ESP - ON Condition		

Test Results:

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

SLNO	PARAMETERS	METROD	UNITS	RESULTS
ı	OXIDES OF NITROGEN NOx (as NO ₂)	IS 11255 PART 7 2005 (R 2017)	mg/Nm ³	77
2	SULPHUR DIOXIDE (502)	IS 11255 PART 2 1985 (R 2019)	mg/Nm ⁹	26
3	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985 (R 2019)	mg/Nm ³	4 9,8
4	CARBON MONOXIDE (CO)		բբու	BOL(DL:2/0)
5	CARBON DIOXIDE (CO ₂)	CTL/SOP/STACK/10-2016 (Elue Gas Analyser)	\$	12.1
ú	OXACEN (O')		*	7.2

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For Chennal Testing Laboratory Pvt Ltd

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Nadvish**m**ola A - Super 19, T.V.K. Industrial Estate, Guindy, Chennal - 600 (SHEN)CAL

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Page 1 of 2

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Test Report No & Date

TEST REPORT

UNETS RESULTS sl.NO PARAMETERS METHOD 7 IS 11255 PART 3 2008 96 1.ó MOISTURE CONTENT HYDROGEN SULPHIDE(H;S) IS 11255 PART 4 2006 8 6 ррт

CTL/CH/N-26965/2024-25 & 07.08-2024

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

END OF REPORT

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For Chennal Testing Laboratory Pvt Ltd

Authorised Signatory

G. MANIKANDAN Head - Environment Division (CHEMICAL)

Page Z of Z

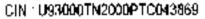
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TEST REPORT

CTL/CH/N-28113/2024-25 & 02.09.2024			
N-20113/24-25 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED • UNIT II, Mondipatri Village, K.Periyapatti Post, Manapparai Tâluk.			
			Trichy District - 621 306. Tamil Nadu.
			Laboratory
Stack Emission			
Emission Monitoring For Process Stacks			
Stack attached with SODA RECOVERY BOILER			
21.08.2024			
24.08.2024			
CTL/QSP/F-89 & IS 11255			
1 No			
Stack Kit 288 DTI 2020			
24 08:2024			
02.09.2024			
103			
425.0			
15-5			
SPORe 2			
1.38			
ESP - ON Condition			

Test Results:

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

\$L.MO	PARAMETERS	METHOD	UNITS	RESULTS
1	OXIDES OF HITROGEN NOV (as NO $_{\pm}$)	IS 13255 PART 7 2005 (R 2017)	ng/Nm³	69
2	SULPHUR DIOXIDE (502)	IS 11255 PART 2 1985 (8 2019)	mg/Nm²	10
3	PARTICULATE MATTER(PM)	JS 11255 PART 1 1985 (R 2019)	mg/Nm ³	\$6.8
4	CARBON MONOXIDE (CO)		ppm	BDI.(DL:2.0)
5	CARBON DIOXIDE (CO3)	CTL/SOP/STACK/LO-2016 (Flue Gas Analyser)	960	13.4
÷	OXYGEN (O2)		*	b.5

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For Chennal Testing Laboratory Pet Ltd.

Page 1 of 2

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TEST REPORT

Test Report No & Date CTL/CH/N-28113/2024-25 & 02.09.2024

SL NO	PARAMETERS	Method	UNITS	AESUL15
7	MÓISTURE CON'RENT	IS 11255 PART 3 2000	46	2.3
e	NYDRÓGEN SVLPHIDE(H ₂ S)	IS 11255 PART 4 2006	ppro	· ?

BDL- Below Detection Limit , D L-Detection Limit

END OF REPORT

For Chennal Testing Laboratory Pvi Ltd

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Page 2 of 2

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TEST REPORT

Test Report No & Date	CTL/CH/N-29779/2024-25 & 03.10.2024		
Sample Number	N-29779/24-25 M/S, TAMIL NA DO NEWSPRINT AND PAPERS LIMITED - UNIT II, Mondipatti Village, K.Periyapatti Posi, Manapparai Taluk,		
Name of the Customer			
Address			
	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 FARAMETERS:			
STACK HEIGHT (m)	103		
STACK TEMPERATURE (K)	441.0		
STACK VELOCITY (m/s)	16.0		
STACK GAS FLOW RATB (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 rested as received, and results are as follows. DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SLND	PARAMETERS	METHOP	INTS	RESULTS
1	OXIDES OF NITROCEN NOx (as NO ₂)	(\$ 11255 (PART 7)	nig/Nm ²	110
Z	SULPHUR DIOXIDE (502)	IS 11255 (PART 2)	mg/Nm ³	31
3	PARTICULATE MATTER[PM]	(\$ 11255 (PART I)	mg/Nm ³	54.5
4	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10 (Flue Gas Analyser)	ppm	BLQ(LOQ:2.0)
5	CARBON DIOXIDE (CO ₂)		•6	125
6	OXYGEN (0 ₁)		%	7.z

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TEST REPORT

Test Report No & Date

CTL/CH/N-29779/2024-25 & 03.10.2024

SL.NO	PARAMETERS	метнор	UNITS	RESULTS
7	MOISTURE CONTENT	IS 11255 PART 3 2008	9ń	1.9
8	HYDROGEN SULPHIDE(H3S)	IS 11255 PART 4 2006	ando	7

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

****END OF REPORT***

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For Chennal Testing Laboratory Pvt Ltd

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G. MANIKANDAN Head - Enveronment Envision (CHEMICAL)

Page 2 of 2

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TEST REPORT

Test Report No & Date	CTL/CH/N-21515/2024-25 & 03.05.2024		
Sample Number	N-21515/24-25 M/S. TAMIL NADO NEWSPRINT AND PAPERS LIMITED - UNIT 11, Mondiparti Village, K.Periyapatti Post, Manapparai Taluk,		
Name of the Customer			
Address			
	Trichy District - 621 306, Tainil Nadu.		
Sample Drawn by	Laboratory		
Sample Name	Stack Envision		
Sample Description	Stack Emission		
Sampling Location	Stack attached with HARD WOOD ECF HOOD VENT		
Sample Drawn on	26.04.2024		
Jample Received on	27.04.2024		
Sampling Plan & Procedure	CTL/QSP/F-09 & 15 31255		
Sample Quantity	1 No		
Equipment used for Sampling	Stack Kit 268 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)	7808.8		
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	метнор	UNITS	RESULTS
1	OXIDES OF NITROGEN NOX (as NO ₃)	IS 13255 PART 7 2005 (R 2017)	mg/Nm ³	BDL(D1. S.0)
2	SULPHUR DIOXIDE (SO2)	(\$ 11255 ÞAÐT 2 1985 (R 2019)	mg/Km ^S	BbL(bL 3.0)
3	РАЯТКШЛАТЕ МАТТЕР(РМ)	IS 11255 PART 2 1985 (R 2019)	mg/Nm ³	3.4
4	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 (Plue Gas Anelysor)	ррњ	405
5	CARBON DROXUDE (CO ₂)		%	0.3
6	OXYGEN (O _z)		94	20.5

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TEST REPORT

Test Report No & Date CTL/CH/N-21515/2024-25 & 03.05.2024

SL.NO	PARAMETERS	NETHOD	UNITS	RESULTS
7	HYDROCHLORIC ACID MIST (HCL)	CTI,/\$9P/\$TACK/27 - 2016	mg/Nm ³	BDL(DL:1.0)
Г _{.4} 1	CHLORINE DIOXIDE(CLO ₇)	NCASI -1997	ppm	80L(01:01)

BDL- Below Detection Linut , D.L-Detection Limit

***END OF REPORT

For Chennal Testing Laboratory Pvi Ltd

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Page 2 of 2

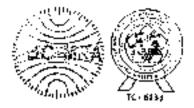
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TEST REPORT

Test Report No & Date	CTL/CH/N-22651/2024-25 & 30.05.2024		
Sample Number	N-22651/24-25 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II, Mondipatti Village. K.Periyapatti Post, Manapparai Taluk.		
Name of the Customer			
Address			
	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 & 15 11255		
Sample Quantity	1 No		
Equipment used for Sampling	Stack Kit 288 DT1 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 (Nm ³ /hr)	8194.4		
DIAMETER OF STACK AT PORTHOLE (in)	0.5		
*APCM STATUS AT THE TIME OF SAMPLING	Wet Scrabber ON Condition		
The state of the s	•		

Test Results:

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

SLND	PARAMETERS	METHOD	UNITS	RESULTS
1	OXIDES OF NITROGEN NOX (as NO j)	18 11 2 55 PART 7 2005 (R 201 7)	mg/Nm ³	BDL(DL:5.0)
2	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985 (R 2019)	rng/Nm²	66L(6L 3.0)
3	РАКТІСЦІАТЕ МАТТЕК(РМ)	IS 11255 PART 1 1985 (R 2019)	mg/Nm ³	3
4	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	ppm	349
5	CARBON DIOXIDE (CO ₂)		%	0.2
6	OXYGEN (O2)		٩ŭ	20.6

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For Chennel Testing Laboratory Pvt Ltd

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TEST REPORT

Test Report No & Date CTL/CH/N-22651/2024-25 & 30.05.2024

SL.NO	PARAMETERS	METNOD	UNITS	RESULTS
7	HYDROCHLORIC ACID MIST (HCL)	CT1/SOP/STACK/27 - 2016	mg/Nm ³	8DL(DI. 1.0)
R	CHLORINE DIOXIDE(CLO2)	NCASI - 1997	ողդ	8DL(0U-0.1)

BDL- Below Detection Limit , D.L-Detection Limit

END OF REPORT

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For Chennal Testing Laboratory Pvt Ltd

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G. MANIKANDAN Head - Environment Division (CHEMICAL)

Page 2 of 2

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TEST REPORT

Test Report No & Date Sample Nomber Name of the Customer Address	CTL/CH/N-24944/2024-25 & 03.07.2024 N-24944/24-25 M/S. TANIL 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	Stack Envision
Sample Description	Emission Monitoring For Process Stacks
Sampling Location	Stack attached with HARD WOOD ECF HOOD VENT
Sample Drawn on	24.05-2024
Sample Received on	27.06.2024
Sampling Plan & Procedure	CTL/QSP/F-R9 & IS 11255
Sample Quantity	1 No.
Equipment used for Sampling	Stack Kit 288 DTI 2020
Analysis Starled on	27.06.2024
Analysis Completed on	03 07.2024
PHYSICAL PARAMETERS:	
STACK HEIGHT (m)	30
STACK TEMPERATURE (K)	3370
STACK VELOCITY (m/s)	13.5
STACK GAS FLOW RATE (Min ³ /hr)	9370. 2
DIAMETER OF STACK AT PORTHOLE (m)	0.5
*APEM 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	ФОНТЭМ	UNITS	RESULTS
•	OXIDES OF NITROGEN NOX (as NO ₂)	15 11255 PART 7 2005 (R 2017)	ng/Nm ⁷	8DL(DL:5.0)
2	SULPHUR DIOXIDE (SO2)	IS LL255 PART 2 1985 (R 2019)	mg/Nm ²	BDL(DL:3.0)
3	PAPTICULATE MATTER(PM)	IS 11255 PART 3 1985 (R 2019)	mg/Nm ³	3.9
;	CARGON MONOXIDE (02)	CTL/SOP/STACK/10-2016 (Flue Gas Analysec)	ppm	642
5	CARBON DIOXIDE (CO3)		- *	0.4
6	OXYGEN (02)		%	20.2

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For Caennal Testing Laboratory Pvi Ltd.

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A - Super 19, T.V.K Industrial Estate, Guindy. Chennal - 600 Chennets, Jack

Page 1 of 2

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TEST REPORT

Test Report No & Date CTL/CH/N-24944/2024-25 & 03.07.2024

SL.NØ	PARAMETERS	METHOD	UNITS	RESULTS
,	HYDROCHLORIC ACIO MIST (HCL)	¢TL/\$0P/STACK/27 · 2016	mg/Nm ³	BDL(DL:3.0)
6	CHLORINE DIOXIDE(CLO ₂)	NCASI - 1997	ppa	BOL(DL-0.1)

BDL- Below Detection Limit . DL-Detection Limit

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Verified by

THEND OF REPORT ***

For Chemical Testing Laboratory Pvt Ltd

`₽ Authorised Signatory

G. NANIKANDAN Head - Environment Division (CHEMICAL)

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TEST REPORT

Test Report No & Date	CTL/CN/N-26967/2024-25 & 07.08.2024			
Sample Number	N-26967/24-25 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,			
Name of the Customer				
Address	Mondipatti Village, K.Periyagatti Post, Manappatai Taluk,			
	Trichy District - 621 306, Tamli Nadu.			
Sample Drawn by	Laboratory			
Sample Mome	Stack Emission			
Sample Description	Emission Monitoring Far Process Stacks			
Sampling Location	Stack attached with HARD WOOD ECF HOOD VENT 30.07.2024 01.08 2024 CTL/QSP/F-89 & IS 11255			
Sample Drawn oe				
Sample Received on				
Sampling Plan & Procedure				
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 CAS 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	YARAMETERS	NETHOD	UNITS	RESULTS
1	OXIDES OF NITROGEN NOx (as NO ₂)	IS 11255 PART 7 2005 (R 2017)	mg/Nm ³	BDL(DL:5.0)
z	SULPHUR DIOXIDE (SO ₂)	IS L1255 PART 2 1985 (R 2019)	mg/Nm ³	BOL(DL:3.0)
ą	PARTICULATE MATTER(PM)	IS 11255 PART 1 L985 (R 2019)	mg/Nm ³	5
4	CARRON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	ppm	0 14
5	CARBON DROXIDE (CO2)		*	0.2
6	OXYGEN (02)		•6	20.5

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For Chennal Testing Laboratory Pvt Ltd

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Page 1 of 2

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TEST REPORT

Test Report No & Date CTL/CH/N-26967/2024-25 & 07.08.2024

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
7	IF- DROCHLORIC ACID MIST (HCL)	ÇTL/SOP/STACK/27 - 2016	mg∕?≢m³	80L(DL:(.Q)
8	CHLORINE DIOXID5(CUO ₂)	NGAS) -1997	ррчи	BDL(DL:0.1)

BDL- Below Detection Limit, D.L-Datection Limit

END OF REPORT

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For Chennal Testing Laboratory Pvt Ltd

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G. MANIKANDAN Head - Environment Division (CHEMICAL)

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TEST REPORT

est Report No & Date CTL/CH/N-28114/2024-25 & 02.09.2024		
Sample Number	Number N-28114/24-25	
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 Madu	
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 ou	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 (Nm ³ /hr)	A703.2	
DIAMETER OF STACK AT PORTHOLE (n)	20	
*APCM STATUS AT THE TIME OF SAMPLING Test Results:	Wet Scrubber - ON Condition	

<u>Test Results:</u>

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

SL-NO	PARAMETERS	METROD	UNITS	RESULTS
1	OXIDES OF NITROGEN NO \times (as NO ₂)	IS 11255 PART 7 2005 (R 2017)	mg/Nm ³	8(H.(H. :5.0)
2	SULPHUR DIOXIDE (50;)	IS (1255 PART Z 1985 (R 2019)	mg/Nm ¹	BDL(DL:3.0)
3	PARTICULATE MATTER(PM)	JS 11255 PART 1 1985 (R 2019)	mg/Nm ³	4.8
4	CARBON MONOXIDE (CO)		ppoj	713
5	CARBON DIOXIDE (CO ₂)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	%	₽Ĵ
6	OXYGEN (O2)		like	20.5

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For Chennal Testing Laboratory Pet Ltd

Page 1 of 2

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TEST REPORT

Test Re	eport No & Date	CTL/CH/N-28114/2024-25 & 02.09.2024				
SL-NO	PARAMETERS	METHOD	UNUTS	RESULTS		
7	HYDROCHLORIC ACID MIST (HCL)	CTL/SOP/STACK/27 - 2016	mg/Nm ²	BDL(DL:1.0)		
θ	CHLORINE DIOXIDE(CLO ₂)	NCASI -1997	ppm	BDL(DL:0.))		

BDL: Below Detection Lumit, D.L-Detection Limit

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END OF REPORT

For Chennal Testing Laboratory Pvt Ltd

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TEST REPORT

est 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, Manapparat Taluk,	
	Trichy District - 621 306, Tamii Nachi.	
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 frawn on	19.09.2024	
Sample Received on	22.09.2024	
Sampling Plan & Procedure	CTL/QSP/F-89 & 15 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 PORTHOLB (m)	0.5	
*APCM STATUS AT THE TIME OF SAMPLING	Wei Scrubber - UN Condition	

Test Results:

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

DISCIPLINE : CHEMICAL

GROUP 2 ATMOSPHERIC POLLUTION

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
1	OXIDES OF NITROGEN NOX (as NO ₇)	IS 11255 (PART 7)	mg/Not*	8LQ(LOQ:5-0)
2	SULPHUR DIOXIDE (SO2)	(\$ 11255 (PART 2)	mg/Nm ³	BLQ(LOQ:3.0)
э	PARTICULATE MATTER(PM)	IS 11255 (PART 1)	mg/Nm ³	6.3
4	CARBON MONOXIDE (CO)		ppm	819
\$	CARBON DIOXIDE (CO ₂)	CTL/SOP/STACK/10 (Flue Gas Analyser)	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0.4
6	OXYGEN (O ₁)		96	20.1

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For Chennal Testing Laboratory Pvt Ltd

Page 1 of 2

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A - Super 19, T.V.K. Industrial Estate, Guindy, Chemist - 50010320 Fanili Nation - India (CHEMICALL

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TEST REPORT

Test Report No & Date	CTL/CH/N-29780/2024-25 & 03.10-2024

SL.NO	PARAMETERS	метнор	UNITS	RESULTS
7	HYDROCHLORIC ACID MIST (HCL)	CTL/SOP/STACK/27	mg/Nm ^s	BLQ(LOQ:1.0)
\$	CHLORINE DIOXIDE(CLO ₂)	NCASI - 1997	ppm	BLQ(LOQ:0.1)

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

***END OF REPORT

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For Chennal Testing Laboratory Pvt Ltd

Page 2 of 2

Authorized Signatory

G.¹MAN/KANDAN Head - Environment Orvision (CHEM:CAL)

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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







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





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 : CREMICAL

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 SO₄	4500 SO4 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 NH3 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 - Super 19, T.V.K. Industrial Estate, Guindy, Chennai 600032, Tamil Nadist India Page 1 of 2 Phone : +91-44-2250 1757 | E-mail : chennaitesting@chennaitestinglab.com www.ctllabs.in



TEST REPORT

CTL/CH/N-29806/2024-25 & 04.10.2024

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5. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
16	Total Organic Carbon (TOC)	5310-C-APHA 24th Edn	mg/l	31.57	-
17	ΑΟΧ	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

Authorised Signatory

A. RAJKUMAR Head - Water & Soil Division (CHEMICAL)

Page 2 of 2

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Test Report No & Date

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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			

rde. Ā 0 n GENERAL-MANAGER RAD 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.



1st Stage ODL Reactor





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 : CREMICAL

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 SO₄	4500 SO4 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 NH3 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)	-

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TEST REPORT

CTL/CH/N-29806/2024-25 & 04.10.2024

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5. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
16	Total Organic Carbon (TOC)	5310-C-APHA 24th Edn	mg/l	31.57	-
17	ΑΟΧ	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

Authorised Signatory

A. RAJKUMAR Head - Water & Soil Division (CHEMICAL)

Page 2 of 2

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Test Report No & Date

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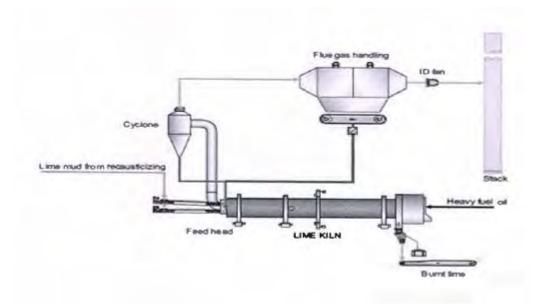
AOX Calculation for the period Apr'24 to Sep'24					
Details	UOM	Values			
Total Treated Effluent Apr'24 to Sep' 2024	m3	1490960.00			
Total Treated Effluent Apr'24 to Sep' 2024	Ltr	1490960000.00			
Total Board Production from Apr'24 to Sep' 2024	MT	103849.00			
Average AOX for the period from Apr'24 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			

rde. Å 0 n GENERAL-MANAGER RAD AND QC TAMILNADU NEWSPRINT AND PAPERS LIMITED (BOARD DIVISION) MONDIPATTI, K.PERIYAPATTI (PO), MANAPPARAI (TK.), TRICHY (DT)-621306.

Brief Description on ECF Bleaching adopted in Hardwood Pulpmill:

The oxygen Delignified pulp is bleached with the sequence D0(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.

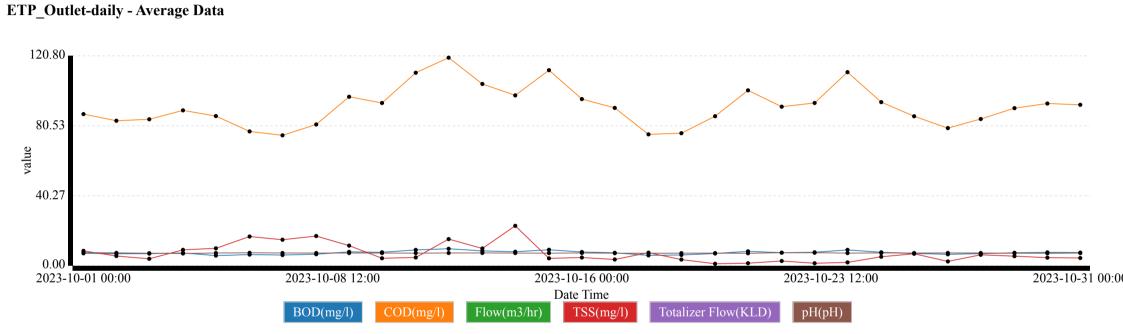
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Average Report

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







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



ULR-CC254824000004261F		Certificate Number : CFC2024-44	·8-FS/1	
Date of Issue : 04.03.2024				
Customer Name And Address		M/s.Tamil Nadu Newsprint and Pa Unit-II, Mondipatti Village, K.Periyapatti Post, Manapparai Tal Trichy District - 621 306, Tamilnad	uk,	
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 rece	eipt	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		to National / International Standard		
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 Confirmity 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





CERTIFICATE

Authorised Signatory

D.Arun Team Leader

Page 01 of 02







ULR-CC254824000004261F

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	%	(%)	k
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

Authorised Signatory

P.Raju Team Member D.Arun Team Leader

Page 02 of 02

----- End of the Report ------



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



ULR-CC254824000004264F	4824000004264F 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 Date	ed 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 rece	ipt	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 t	o National / International Standar	,		
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 Confirmity 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**





Authorised Signatory

D.Arun Team Leader

Page 01 of 02







ULR-CC254824000004264F

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	%	(%)	k
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

Authorised Signatory

P.Raju Team Member D.Arun Team Leader

Page 02 of 02

----- End of the Report ------



Certificate No: CTL/CEQMS/001					
Customer Name & Address	Date of Calibration 18.9.2024				
M/s Tamilnadu Newsprint and Paper Ltd,unit –II, Mondipatti village,K.periyapatti post,Manapparai	Calibration Due Date	17.9.2025			
Taluk,Trichy-621306	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
РН	7.34	6.99			
	7.31	7.18			
	7.22	7.27			
	7.20	7.23			
	7.15	7.33	0.86	-1.0	1.0
	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 converted in to CPCB.

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Certificate No: CTL/CEQMS/003					
Customer Name & Address	Date of Calibration	18.9.2024			
M/s Tamilnadu Newsprint and Paper Ltd, unit –II, Mandinatti villaga K parivanatti past Manapagaji	Calibration Due Date	17.9.2025			
Mondipatti village,K.periyapatti post,Manapparai Taluk,Trichy-621306	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			
	7.9	8.5			
	8.1	9.5			
	8.7	9.8			
	9.0	9.6	0.5	0.41	1.089
	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 SPCB / CPCB as raw value and needs to converted in to CPCB.

Signature





Certificate No: CTL/CEQMS/004		
Customer Name & Address	Date of Calibration	18.9.2024
M/s Tamilnadu Newsprint and Paper Ltd,unit –II, Mondipatti village,K.periyapatti post,Manapparai	Calibration Due Date	17.9.2025
Taluk,Trichy-621306	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			
	101.0	102.8			
	104.0	104.5			
	106.0	106.8			
	107.0	108.0	2.11	1.98	1.010
	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 converted in to CPCB.

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Certificate No: CTL	/CEQMS/002		1				
Customer Name & Address		Date of Calibration			18.9.2024		
M/s Tamilnadu Newsprint and Paper Ltd,unit –II, Mondipatti village,K.periyapatti post,Manapparai			Calibration Due Date			17.9.2025	
Taluk,Trichy-621306				/lake/model		Endress H	auser/CUS51D
	Taluk, Theny-021300			Range			0-500mg/L
				f Calibration			0-30011g/L
			Results o	or Calibration			
Parameter	CEMS Value	Referenc	ce Value	Relative Accuracy(%) Acceptance criteria(≤10%)	Bias (% Acceptar criteria(≤	nce	Bias Adjustment factor
				entena(21076)			
TSS(mg/L)	4.52	5.	4				
	4.50	6.	2				
	4.50	7.	1				
	4.52	4.	5				
	4.53	5.	5	0.44	0.18		1.355
	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



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	рН @ 25°С	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 SO4	IS 3025 (Part 24/Sec -1) - 2022	mg/l	11 5
14	Total Alkalinity as CaCO3	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)

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TEST REPORT

Test Report No & Date CTL/CH/N-24955/2024-25 & 06.07.2024

S. NO	PARAMETERS	метнор	UNITS	RESULTS
22	Biochemical Oxygen Demand (BOD) 3 days at 27°C	lS 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	lS 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	Oit & Grease	IS 3025 (Part 39) - 2021	mg/l	< 2

BDL - Below Detection Limit; DL - Detection limit;

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END OF REPORT

For Chennal Testing Laboratory Pvt ltd

Authorised Signatory

A. RAJKUMAR Head - Water & Soil Division

Page 2 of 2

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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	022-ur	IS : 3025 (Part 5) - 2018	-	Agreeable
3	рН @ 25°С	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/I	BDL(DL:0.001)
13	Sulphate as SO₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	156
14	Total Alkalinity as CaCO3	IS 3025 (Part 23)-1986 (R.2019)	mg/l	540
15	Total Hardness as CaCO3	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	Relidual 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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TEST REPORT

Test Report No & Date CTL/CH/N-24954/2024-25 & 06.07.2024

S. NO	PARAMETERS	метнод	UNITS	RESULTS
22	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	< 2
23	Chemicał 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;

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END OF REPORT

For Chennai Testing Laboratory Pvt ltd

Authorised Signatory

A. RAJKUMAR Page 2 of 2 Head - Water & Soil Division (CHEMICAL)

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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	pit @ 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
1 1	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 SO4	IS 3025 (Part 24/Sec -1) - 2022	mg/l	84
14	Total Alkalinity as CaCO3	IS 3025 (Part 23)-1986 (R.2019)	mg/l	270
15	Total Hardness as CaCO3	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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TEST REPORT

Test Report No & Date CTL/CH/N-24953/2024-25 & 06.07.2024

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)	1S 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	JS 11624 – 2019	-	3.46
29	Oil & Greas e	IS 3025 (Part 39) - 2021	mg/l	< 2

BDL - Below Detection Limit; DL - Detection limit;

END OF REPORT

For Chennal Testing Laboratory Pvt ltd

A - 12 ~~ Authorised Signatory

A. RAJKUMAR Head - Water & Soil Division (CHEMICAL)

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TEST REPORT

Test Report No & Date	CTL/CH/N-24951/2024-25 & 06.07.2024		
Sample Number	N-24951/24-25 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II, Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,		
Name of the Customer			
Address			
	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		
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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	рН @ 25°С	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 SO4	IS 3025 (Part 24/Sec -1) - 2022	mg/l	79
14	Total Alkalinity as CaCO3	IS 3025 (Part 23)-1986 (R.2019)	mg/l	266
15	Total Hardness as CaCO3	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	N⊶…ury 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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TEST REPORT

Test Report No & Date CTL/CH/N-24951/2024-25 & 06.07.2024

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/t	< 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	Sectium 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;

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A. RAJKUMAR Page 2 of 2 Head - Water & Soll Division (CHEMICAL)

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TEST REPORT

Test Report No & Date	CTL/CH/N-24949/2024-25 & 06.07.2024		
Sample Number	N-24949/24-25 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,		
Name of the Customer			
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		
m h			

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	нυ	2
2	Odour	IS : 3025 (Part 5) - 2018	-	Agreeable
3	рН@ 25°С	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	Carcium as Ca	IS 3025 (Part 40)-1991 (R.2019)	mg/l	124
8	Chloride as Cl	lS 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	lron 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 SO₄	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	Cyaníde 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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Page 1 of 2



TEST REPORT

Test Report No & Date CTL/CH/N-24949/2024-25 & 06.07.2024

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	lS 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

Page 2 of 2

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A. RAJKÚMAR Head - Water & Soil Division (CHEMICAL)

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TEST REPORT

Test Report No & Date	CTL/CH/N-24950/2024-25 & 06.07.2024		
Sample Number	N-24950/24-25 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,		
Name of the Customer			
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	рН @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	8.1
4	Taste	IS 3025 (Part 8)-1984 (R.2017)	-	Agreeable
5	Terbidity	lS 3025 (Part 10)-1984 (R.2017)	NTU	2
6	Total Dissolved Solids	IS 3025 (Part 16)-1984 (RA.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 SO4	I\$ 3025 (Part 24/Sec -1) - 2022	mg/l	158
14	Total Alkalinity as CaCO3	IS 3025 (Part 23)-1986 (R.2019)	mg/l	520
15	Total Hardness as CaCO3	IS 3025 (Part 21)-2009 (R.2019)	mg/i	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	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

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A. RAJKUMAR A. WARPS Soft Divisionage 1 of 2 A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai -Phone : +91-44-2250 1757 | E-mail : chennaitesting@chennaitestingfab.com



TEST REPORT

Test Report No & Date CTL/CH/N-24950/2024-25 & 06.07.2024

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	lS 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;

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END OF REPORT

For Chennai Testing Laboratory Pvt ltd

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A. RAJKUMAK Head - Water & Soll DivisionPage 2 of 2 (CHEMICAL)

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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, Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,		
Address			
	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	рН @ 25°С	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 SO₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	132
14	Total Alkalinity as CaCO3	IS 3025 (Part 23)-1986 (R.2019)	mg/l	450
15	Total Hardness as CaCO3	IS 3025 (Part 21)-2009 (R.2019)	mg/I	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)

For Chennai Testing Laboratory Pvt ltd

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TEST REPORT

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

- Below Detection Lunit; DL - Detection lunit;

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A. RAJKUMAR Head - Water & Soil Division (CHEMICAL)

Page 2 of 2

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TEST REPORT

Test Report No & Date	CTL/CH/N-24957/2024-25 & 06.07.2024			
Sample Number	N-24957/24-25 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II, Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,			
Name of the Customer				
Address				
	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	метнод	UNITS	RESULTS
1	Colour	IS : 3025 (Part 4)- 2021	HU	2
2	Odour	IS : 3025 (Part 5) - 2018	-	Agreeable
3	рН @ 25°С	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 CaCO3	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	Суапіde 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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TEST REPORT

Test Report No & Date CTL/CH/N-24957/2024-25 & 06.07.2024

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	lS 3025 (Part 39) - 2021	mg/l	< 2

BDL - Below Detection Limit; DL - Detection limit;

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A. RAJKUMAR Page 2 of 2 Head - Water & Soil Division (CHEMICAL)

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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			

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	lS : 3025 (Part 5) - 2018	-	Agreeable
3	рН @ 25°С	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
1 1	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 SO₄	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)

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TEST REPORT

CTL/CH/N-24958/2024-25 & 06.07.2024

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)	1\$ 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	1 1
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;

Test Report No & Date

END OF REPORT

For Chennai Testing Laboratory Pvt ltd

Authorised Signatory

A. RAJKUMÁR Head - Water & Soil Division (CHEMICAL)

Page 2 of 2

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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	ни	2
2	Odour	IS : 3025 (Part 5) - 2018	-	Agreeable
3	рН @ 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 SO4	IS 3025 (Part 24/Sec -1) - 2022	mg/l	81
14	Total Alkalinity as CaCO3	IS 3025 (Part 23)-1986 (R.2019)	mg/l	260
15	Total Hardness as CaCO3	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 - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - Head Statend Soll Divisionage 1 of 2



TEST REPORT

Test Report No & Date	CTL/CH/N-24952/2024-25 & 06.07.2024
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S. NO	PARAMETERS	метнор	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 Chennal Testing Laboratory Pvt ltd

A - 12 u Authorised Signatory A. RAJKUMAR Pag Head - Water & Soil Division Page 2 of 2 (CHEMICAL)

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TEST REPORT

Test Report No & Date	CTL/CH/N-24948/2024-25 & 06.07.2024		
Sample Number	N-24948/24-25 M/S. TAMIL NADU NEWSPRINT AND PA PER S LIMITED - UNIT II,		
Name of the Customer			
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	рН @ 25°С	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	I\$ 3025 (Part 43/Sec 1) 2022	mg/l	BDL(DL:0.001)
13	Sulphate as SO4	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 CaCO3	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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TEST REPORT

Test Report No & Date CTL/CH/N-24948/2024-25 & 06.07.2024

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	< 2
23	Chemicai Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/i	< 4
24	Nitrate Nitrogen as N	IS 3025 (Part 34)-1988 (R.2019)	mg/i	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/i	7.2
27	Percent Sodium	CTL/SOP/WATER/60-2022	%	53.6 3
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

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A. RAJKUMAR Head - Water & Soil Division (CHEMICAL)

Page 2 of 2

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TEST REPORT

Test Report No & Date	CTL/CH/N-24959/2024-25 & 06.07.2024		
Sample Number	N-24959/24-25 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,		
Name of the Customer			
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		

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

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS: 3025 (Part 4)- 2021	Ηυ	2
2	Odour	IS : 3025 (Part 5) - 2018	-	Agreeable
3	рН @ 25°С	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	Fluoríde as F	IS 3025 (Part 60)-2008 (R.2019)	mg/l	0.34
10	Irun 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 SO₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	186
14	Total Alkalinity as CaCO3	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)

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TEST REPORT

Test Report No & Date CTL/CH/N-24959/2024-25 & 06.07.2024

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
2 7	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

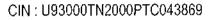
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A. RAJKUMAR Head - Water & Soil Division Press of 2 (CHEMICAL)

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TEST REPORT

Test Report No & Date	CTL/CH/N-29810/2024-25 & 04.10.2024		
Sample Number	N-29810/24-25 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT 11,		
Name of the Customer			
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	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)	НО	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	lS 3025 (Part 40)	mg/l	82
8	Chloride as Cl	lS 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/ł	BLQ(LOQ:0.001)
13	Sulphate as SO₄	IS 3025 (Part 24/Sec 1)	mg/l	57
14	Total Alkalinity as CaCO3	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	lS 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	lS 3025 (Part 45)	mg/l	7
22	Dissolved Oxygen	IS 3025 (Part 38)	mg/l	7.2
	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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TEST REPORT

CTL/CH/N-29810/2024-25 & 04.10.2024

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
26	Nitrate Nitrogen as N	IS 3025 (Part 34/Sec 1)	mg/l	1.76
27	Percent Sodium	CTL/SOP/WATER/60	%	35.06
28	Sodium absorption ratio	IS 11624	-	2.1
29	O! ¹ % 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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Page 2 of 2

A. RAJKUMAR Head - Water & Soll Division (CHEMICAL)

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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 Searted 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	Sulphate as SO4	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		mg/l	BLQ(LOQ:0.0025)
24	Mercury as Hg	IS 3025 (Part 2)	mg/l	BLQ(LOQ:0.001)
	Arsenic as As		mg/l	BLQ(LOQ:0.001)

For Chennai Testing Laboratory Pvt ltd

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TEST REPORT

Test Report No & Date

CTL/CH/N-29808/2024-25 & 04.10.2024

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
26	Nitrate Nitrogen as N	IS 3025 (Part 34/Sec 1)	mg/t	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)

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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			

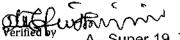
Test Results:

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

DISCIPLINE : CHEMICAL & BIOLOGICAL

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
	Colour	IS 3025 (Part 4)	HU	2
2	Odour	IS 3025 (Part 5)	-	Agreeable
3	υΗ @ 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	P?olic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1)	mg/l	BLQ(LOQ:0.001)
13	Sulphate as SO₄	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	Cvanide 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		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)

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TEST REPORT

Test Report No & Date CTL/CH/N-29809/2024-25 & 04.10.2024

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
	Nitrate Nitrogen as N	IS 3025 (Part 34/Sec 1)	mg/l	3.6
	Percent Sodium	CTL/SOP/WATER/60	%	50.91
28	Sodium absorption ratio	IS 11624	-	4.76
	Ojl & 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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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 Ground Water
Sample Name Sample Description	Ground Water
Sampling Location Sample Drawn on	Sreenivasan, Ponnampatti 21.09.2024
Sample Received on	22.09.2024 Grab Sample & CTL/QSP/09
Sampling Plan & Procedure Sample Quantity	2 Littles Good & Received in Plastic Container
Sample Condition Environmental Conditions	Good & Received in Plastic Container Temperature- 33.1°C and Humidity- 57.2%
Equipment used for Sampling	NA 23.09.2024
Analysis Started on Analysis Completed on	04.10.2024

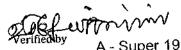
Test Results:

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

DISCIPLINE : CHEMICAL & BIOLOGICAL

GROUP	; WATER	METHOD	UNITS	RESULTS
S. NO	PARAMETERS	IS 3025 (Part 4)	HU	2
1	Colour			Agreeable
2	Odour	IS 3025 (Part 5)		7.4
3	рН @ 25°С	IS 3025 (Part 11)		Agreeable
4	Taste	IS 3025 (Part 8)	NTU	BLQ(LOQ:1.0)
5	Turbidity	IS 3025 (Part 10)		1136
_	Total Dissolved Solids	IS 3025 (Part 16)	mg/l	1150
7	Carrium as Ca	IS 3025 (Part 40)	mg/l	324
	Chloride as Cl	IS 3025 (Part 32)	mg/l	
	Fluoride as F	IS 3025 (Part 60)	mg/l	0.34
9		IS 3025 (Part 53)	mg/l	0.26
10	Iron as Fe	IS 3025 (Part 46)	mg/l	39
11	Magnesium as Mg	IS 3025 (Part 43/Sec 1)	mg/l	BLQ(LOQ:0.001)
12	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 24/Sec 1)	mg/l	90
13	Sulphate as SO4	1S 3025 (Part 23)	mg/l	363
14	Total Alkalinity as CaCO ₃	IS 3025 (Part 21)	mg/l	472
15	Total Hardness as CaCO ₃	IS 3025 (Part 27/Sec 1)	mg/l	BLQ(LOQ:0.001)
16	Cyanide as CN	IS 3025 (Part 17)	mg/l	BLQ(LOQ:2.0)
17	Total Suspended Solids	15 3025 (Part 26)	mg/i	BLQ(LOQ:0.1)
18	Residual Free Chlorine Biochemical Oxygen Demand (BOD)	IS 3025 (Part 44)		BLQ(LOQ:2.0)
19	3 days at 27°C			BLQ(LOQ:4.0)
20	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)	mg/l	16
21	Potassium as K	IS 3025 (Part 45)	mg/l	7.3
22	Dissolved Oxygen	IS 3025 (Part 38)		BLQ(LOQ:0.0025)
23	Chromium as Cr		mg/l	BLQ(LOQ:0.001)
23	Mercury as Hg	1S 3025 (Part 2)	ng/l	
24	Mercury as ng		mg/l	BLQ(LOQ:0.001)

For Chennai Testing Laboratory Pvt ltd



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🧏 India Division



TEST REPORT

Test Report No & Date CTL/CH/N-29815/2024-25 & 04.10.2024

PARAMETERS	METHOD	UNITS	RESULTS
Nitrate Nitrogen as N	IS 3025 (Part 34/Sec 1)	mg/l	3.56
De-rout Sodium	CTL/SOP/WATER/60	%	48.29

28Sodium absorption ratioIS 116244.2329(b)L& GreaseIS 3025 (Part 39)mg/lBLQ(LOQ:2.0)	27	Percent Sodium	CTL/SOP/WATER/60	70	
IS 3025 (Part 39) mg/l BLQ(LOQ:2.0)		Sodium absorption ratio	IS 11624		4.23
	29	Uil & 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

Authorised Signatory

A. RAJKYMAR Head - Water & Soil Division (CHEMICAL)

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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,			
11441 C35	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:

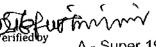
The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL & BIOLOGICAL

CROUP :WATER

GROUP S. NO	PARAMETERS	метнор	UNITS	RESULTS
1	Colour	IS 3025 (Part 4)	нυ	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
	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
	Chloride as Cl	IS 3025 (Part 32)	mg/l	74
9	Fluoride as F	IS 3025 (Part 60)	mg/l	0,1
<u>F</u>	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_6H_5OH	IS 3025 (Part 43/Sec 1)	mg/l	BLQ(LOQ:0.001)
13	Sulphate as SO4	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	Cvanide 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		mg/l	BLQ(LOQ:0.0025)
24	Moreury 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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TEST REPORT

Test Report No & Date

CTL/CH/N-29816/2024-25 & 04.10.2024

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
26	Nitrate Nitrogen as N	IS 3025 (Part 34/Sec 1)	mg/l	0.86
27	Pei cent 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

Authorised Signatory

A. RAJKUMAR Page 2 of 2 Head - Water & Soll Division (CHEMICAL)

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TEST REPORT

Test Report No & Date Sample Number Name of the Customer Address	CTL/CH/N-29817/2024-25 & 04.10.2024 N-29817/24-25 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	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

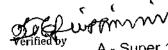
Test Results:

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

DISCIPLINE : CHEMICAL & BIOLOGICAL

: WATER	METHOD	UNITS	RESULTS
		HU	2
	······································		Agreeable
			7.6
			Agreeable
		NTU	BLQ(LOQ:1.0)
		mg/l	750
			111
			208
			0.24
			0.12
			34
Magnesium as Mg			BLQ(LOQ:0.001)
			59
1			222
			417
Total Hardness as CaCO ₃		w	BLQ(LOQ:0.001)
Cyanide as CN			BLQ(LOQ:2.0)
Total Suspended Solids			BLQ(LOQ:0.1)
Residual Free Chlorine	IS 3025 (Part 26)	mg/I	
	1S 3025 (Part 44)	mg/l	BLQ(LOQ:2.0)
	IS 3025 (Part 58)	mg/l	BLQ(LOQ:4.0)
		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	11
			7.3
	13 3 0 2 3 (r at r 3 3)		BLQ(LOQ:0.0025
	19 2025 (Part 2)		BLQ(LOQ:0.001)
Mercury as Hg Arsenic as As	13 3023 (Fait 2)	mg/l	BLQ(LOQ:0.001)
	PARAMETERSColourOdourDdourpH @ 25°CTasteTurbidityTotal Dissolved SolidsCalcium as CaChloride as CIFluoride as FIron as FeMagnesium as MgPhenolic Compounds as C6H5OHSulphate as SO4Total Alkalinity as CaCO3Total Hardness as CaCO3Cyanide as CNTotal Suspended Solids	PARAMETERSMETHODColourIS 3025 (Part 4)OdourIS 3025 (Part 5)pH @ 25°CIS 3025 (Part 11)TasteIS 3025 (Part 8)TurbidityIS 3025 (Part 10)Total Dissolved SolidsIS 3025 (Part 16)Calcium as CaIS 3025 (Part 40)Chloride as ClIS 3025 (Part 32)Fluoride as FIS 3025 (Part 40)Iron as FeIS 3025 (Part 40)Magnesium as MgIS 3025 (Part 46)Phenolic Compounds as CeH50HIS 3025 (Part 43/Sec 1)Sulphate as SO4IS 3025 (Part 24/Sec 1)Total Alkalinity as CaCO3IS 3025 (Part 23)Total Hardness as CaCO3IS 3025 (Part 21)Cyanide as CNIS 3025 (Part 21)Total Suspended SolidsIS 3025 (Part 27/Sec 1)Total Suspended SolidsIS 3025 (Part 26)Biochemical Oxygen Demand (BOD)IS 3025 (Part 26)Biochemical Oxygen Demand (COD)IS 3025 (Part 44)A days at 27°CIS 3025 (Part 45)Dissolved OxygenIS 3025 (Part 38)Potassium as KIS 3025 (Part 45)Dissolved OxygenIS 3025 (Part 38)Chromium as CrIS 3025 (Part 30)	PARAMETERSMETHODUNITSColourIS 3025 (Part 4)HUOdourIS 3025 (Part 5)-PH @ 25°CIS 3025 (Part 11)-TasteIS 3025 (Part 10)NTUTotal Dissolved SolidsIS 3025 (Part 10)NTUCalcium as CaIS 3025 (Part 10)mg/lChloride as CIIS 3025 (Part 40)mg/lFluoride as CIIS 3025 (Part 40)mg/lIron as FeIS 3025 (Part 53)mg/lMagnesium as MgIS 3025 (Part 43/Sec 1)mg/lSulphate as SO4IS 3025 (Part 24/Sec 1)mg/lTotal Alkalinity as CaCO3IS 3025 (Part 23)mg/lTotal Alkalinity as CaCO3IS 3025 (Part 21)mg/lCyanide as CNIS 3025 (Part 21)mg/lTotal Suspended SolidsIS 3025 (Part 21)mg/lResidual Free ChlorineIS 3025 (Part 26)mg/lBiochemical Oxygen Demand (BOD)IS 3025 (Part 26)mg/lS 3025 (Part 27)IS 3025 (Part 44)mg/lBiochemical Oxygen Demand (COD)IS 3025 (Part 28)mg/lDissolved OxygenIS 3025 (Part 38)mg/lDissolved OxygenIS 3025 (Part 28)mg/lDissolved OxygenIS 3025 (Part 28)mg/lDissolved Axygen Demand (COD)IS 3025 (Part 38)mg/lDissolved OxygenIS 3025 (Part 45)mg/lDissolved OxygenIS 3025 (Part 28)mg/lDissolved OxygenIS 3025 (Part 28)mg/lDissolved OxygenIS 3025 (Part 28)mg

For Chennai Testing Laboratory Pvt ltd



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TEST REPORT

Test Report No & Date

CTL/CH/N-29817/2024-25 & 04.10.2024

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
26	Nitrate Nitrogen as N	IS 3025 (Part 34/Sec 1)	mg/ł	1.98
27	Percent Sodium	CTL/SOP/WATER/60	%	41.35
28	Sodium absorption ratio	IŠ 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

Authorised Signatory V A. RADINGMAR Page 2 of 2

Head - Water & Soil Division (CHEMICAL)

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TEST REPORT

Test Report No & Date	CTL/CH/N-29811/2024-25 & 04.10.2024		
Sample Number	N-29811/24-25 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II, Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,		
Name of the Customer			
Address			
	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

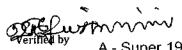
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GROUP S. NO	PARAMETERS	метнор	UNITS	RESULTS
	Colour	IS 3025 (Part 4)	Ηυ	2
	Odour	IS 3025 (Part 5)	-	Agreeable
	рН@25°С	IS 3025 (Part 11)	-	7.5
4	Taste	IS 3025 (Part 8)	-	Agreeable
5	Turbidity	IS 3025 (Part 10)	NTU	1
6	Total Dissolved Solids	IS 3025 (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 SO4	IS 3025 (Part 24/Sec 1)	mg/l	71
14	Total Alkalinity as CaCO ₃	1S 3025 (Part 23)	mg/l	313
15	Total Hardness as CaCO ₃	IS 3025 (Part 21)	mg/l	457
	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/i	BLQ(LOQ:4.0)
21	Potassium as K	1S 3025 (Part 45)	mg/l	9
22	Dissolved Oxygen	IS 3025 (Part 38)	mg/l	6.9
23	Chromium as Cr	······	mg/l	BLQ(LOQ:0.0025)
	Mercury as Hg	IS 3025 (Part 2)	mg/l	BLQ(LOQ:0.001)
	Arsenic as As		mg/l	BLQ(LOQ:0.001)

For Chennai Testing Laboratory Pvt ltd

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Test Report No & Date

TEST REPORT

CTL/CH/N-29811/2024-25 & 04.10.2024

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
26	Nitrate Nitrogen as N	IS 3025 (Part 34/Sec 1)	mg/l	1.9
27	Percent Sodium	CTL/SOP/WATER/60	%	34.18
28	Sodium absorption ratio	JS 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 Chennal Testing Laboratory Pvt Itd

Authorised Signatory

Page 2 of 2

A. RAJKUMAR Head - Water & Soil Division (CHEMICAL)

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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- 57.2%		
Equipment used for Sampling	NA		
Analysis Started on	23.09.2024		
Analysis Completed on	04.10.2024		

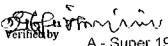
DISCIPLINE : CHEMICAL & BIOLOGICAL

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
1	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 U	IS 3025 (Part 32)	mg/l	194
9	Fluoride as F	1S 3025 (Part 60)	mg/l	0.12
10	Iron as Fe	IS 3025 (Part 53)	mg/l	0.25
11	Magnesium as Mg	1S 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 SO4	IS 3025 (Part 24/Sec 1)	mg/l	97
14	Total Alkalinity as CaCO3	IS 3025 (Part 23)	mg/l	400
15	Total Hardness as CaCO3	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/i	BLQ(L0Q: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	15 3025 (Part 45)	mg/l	9
22	Dissolved Oxygen	IS 3025 (Part 38)	mg/l	7.0
23	Chromium as Cr		mg/l	BLQ(LOQ:0.0025)
24	Mercury as Hg	1S 3025 (Part 2)	mg/l	BLQ(LOQ:0.001)
	Arsenic as As		mg/l	BLQ(LOQ:0.001)

For Chennai Testing Laboratory Pvt ltd

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Test Report No & Date

TEST REPORT

CTL/CH/N-29807/2024-25 & 04.10.2024

5. NO	PARAMETERS	METHOD	UNITS	RESULTS
26	Nitrate Nitrogen as N	IS 3025 (Part 34/Sec 1)	mg/l	2.2
27	Pe rc ent Sodium	CTL/SOP/WATER/60	%	36.57
28	Sodium absorption ratio	IS 11624		2.44
29	Oil & Grease	1S 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

Authorised Signatory

A. RAJKUMÁR Head - Water & Soil Division Page 2 of 2 (CHEMICAL)

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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 SO4	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 CaCO3	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	1S 3025 (Part 26)	mg/l	BLQ(LOQ:0.1)
	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		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 Itd

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TEST REPORT

fest R	eport No & Date	CTL/CH/N-29818/2024-25 & 04.10.2024				
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		
(Oil & Grease ow Limit of Quantification; LOQ - Limit of Qu	IS 3025 (Part 39)		BLQ(LOQ:2.0)		

END OF REPORT

For Chennal Testing Laboratory Pvt Itd

A. RAJIQU Head Autogrased Signal (CHEMICAL) Page 2 of 2

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TEST REPORT

Test Report No & Date Sample Number Name of the Customer Address	CTL/CH/N-29814/2024-25 & 04.10.2024 N-29814/24-25 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	Varsha Nagar, Porunthalur Village
Sample Drawn on	21.09.2024
Sample Received on	22.09.2024
Sampling Pian & 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	

<u>Test Results:</u>

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

DISCIPLINE : CHEMICAL & BIOLOGICAL

GROUP : WATER

Colour Odour pH @ 25°C Taste Turbidity Total Dissolved Solids Calcium as Ca	IS 3025 (Part 4) IS 3025 (Part 5) IS 3025 (Part 11) IS 3025 (Part 8) IS 3025 (Part 10) IS 3025 (Part 16)	HU - - - - NTU	RESULTS 2 Agreeable 7.6 Agreeable
pH @ 25°C Taste Turbidity Total Dissolved Solids Calcium as Ca	IS 3025 (Part 11) IS 3025 (Part 8) IS 3025 (Part 10) IS 3025 (Part 16)		Agreeable 7.6 Agreeable
Taste Turbidity Total Dissolved Solids Calcium as Ca	IS 3025 (Part 8) IS 3025 (Part 10) IS 3025 (Part 16)		7.6 Agreeable
Turbidity Total Dissolved Solids Calcium as Ca	IS 3025 (Part 10) IS 3025 (Part 16)		Agreeable
Total Dissolved Solids Calcium as Ca	IS 3025 (Part 10) IS 3025 (Part 16)	NTU	
Calcium as Ca			T RED/00-10
		mg/l	BLQ(LOQ:1.0) 1070
	IS 3025 (Part 40)	mg/l	1070
Chioride as Cl	IS 3025 (Part 32)		342
Fluoride as F			0.24
Iron as Fe			0.24
			36
	IS 3025 (Part 43/Sec 1)		BLQ(LOQ:0.001
			82
			268
		· · · · · · · · · · · · · · · · · · ·	408
Cyanide as CN			BLQ(LOQ:0.001)
			BLQ(LOQ:0.001)
Residual Free Chlorine			BLQ(LOQ:2.0) BLQ(LOQ:0.1)
days at 27°C	IS 3025 (Part 44)	mg/l	BLQ(LOQ:0.1) BLQ(LOQ:2.0)
	IS 3025 (Part 58)	mg/l	BLQ(LOQ:4.0)
bissolved Oxygen			7.1
hromium as Cr			
lercury as Hg	IS 3025 (Part 2)		BLQ(LOQ:0.0025)
rsenic as As			BLQ(LOQ:0.001) BLQ(LOQ:0.001)
	Fluoride as F Iron as Fe Magnesium as Mg Phenolic Compounds as C ₆ H ₅ OH Sulphate as SO ₄ Fotal Alkalinity as CaCO ₃ Fotal Hardness as CaCO ₃ Cyanide as CN Fotal Suspended Solids Residual Free Chlorine Biochemical Oxygen Demand (BOD) days at 27°C hemical Oxygen Demand (COD) otassium as K rissolved Oxygen hromium as Cr lercury as Hg	Fluoride as FIS 3025 (Part 60)Iron as FeIS 3025 (Part 53)Magnesium as MgIS 3025 (Part 46)Phenolic Compounds as C6H50HIS 3025 (Part 43/Sec 1)Sulphate as SO4IS 3025 (Part 24/Sec 1)Fotal Alkalinity as CaCO3IS 3025 (Part 23)Fotal Hardness as CaCO3IS 3025 (Part 21)Cyanide as CNIS 3025 (Part 27/Sec 1)Cotal Suspended SolidsIS 3025 (Part 27/Sec 1)Fotal Suspended SolidsIS 3025 (Part 26)Rochemical Oxygen Demand (BOD)IS 3025 (Part 26)days at 27°CIS 3025 (Part 44)hemical Oxygen Demand (COD)IS 3025 (Part 45)otassium as KIS 3025 (Part 45)rissolved OxygenIS 3025 (Part 38)hromium as CrIS 3025 (Part 2)	Fluoride as FIS 3025 (Part 60)mg/lIron as FeIS 3025 (Part 53)mg/lMagnesium as MgIS 3025 (Part 46)mg/lPhenolic Compounds as C ₆ H ₅ OHIS 3025 (Part 43/Sec 1)mg/lSulphate as SO ₄ IS 3025 (Part 24/Sec 1)mg/lFotal Alkalinity as CaCO ₃ IS 3025 (Part 24/Sec 1)mg/lFotal Alkalinity as CaCO ₃ IS 3025 (Part 23)mg/lCotal Hardness as CaCO ₃ IS 3025 (Part 21)mg/lCyanide as CNIS 3025 (Part 27/Sec 1)mg/lCotal Suspended SolidsIS 3025 (Part 27/Sec 1)mg/lCotal Suspended SolidsIS 3025 (Part 26)mg/lResidual Free ChlorineIS 3025 (Part 26)mg/lRochemical Oxygen Demand (BOD)IS 3025 (Part 44)mg/ldays at 27°CIS 3025 (Part 45)mg/ldotassium as KIS 3025 (Part 45)mg/lrissolved OxygenIS 3025 (Part 38)mg/lhromium as Crmg/lmg/llercury as HgIS 3025 (Part 2)mg/l



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For Chennai Testing Laboratory Pvt ltd

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TEST REPORT

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

For Chennal Testing Laboratory Pvt ltd

A - Z - L Authorised Signatory

A. RAJKUMÁR Head - Water & Soll Division (CHEMICAL)

Page 2 of 2

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Test Report No & Date





TEST REPORT

Test Report No & Date Sample Number Name of the Customer Address	CTL/CH/N-29813/2024-25 & 04.10.2024 N-29813/24-25 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	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:

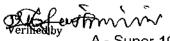
The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL & BIOLOGICAL

GROUP : WATER

<u>S, NO</u>		METHOD	UNITS	RESULTS
1	Colour	IS 3025 (Part 4)	HU	2
2	Odour	IS 3025 (Part 5)		
3	рН @ 25°С	IS 3025 (Part 11)		Agreeable 7.7
4	Taste	IS 3025 (Part 8)		
5	Turbidity	IS 3025 (Part 10)	NTU	Agreeable
6	Total Dissolved Solids	IS 3025 (Part 16)	mg/]	BLQ(LOQ:1.0)
7	Calcium as Ca	IS 3025 (Part 40)		1410
8	Chloride as Cl	IS 3025 (Part 32)	mg/l	184
9	Fluoride as F	IS 3025 (Part 60)	mg/l	410
10	Iron as Fe	IS 3025 (Part 53)	mg/l	0.31
11	Magnesium as Mg	IS 3025 (Part 46)	mg/l	0.11
12	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1)	mg/l	56
13	Sulphate as SO₄	IS 3025 (Part 24/Sec 1)	mg/]	BLQ(LOQ:0.001
14	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)	mg/l	104
15	Total Hardness as CaCO3	IS 3025 (Part 21)	mg/l	381
16	Cyanide as CN	IS 3025 (Part 27/Sec 1)	mg/l	689
17	Total Suspended Solids	IS 3025 (Part 17)	mg/l	BLQ(LOQ:0.001)
18	Residual Free Chlorine	IS 3025 (Part 26)	mg/l	BLQ(LOQ:2.0)
10	Biochemical Oxygen Demand (BOD)		mg/l	BLQ(LOQ:0.1)
	3 days at 27°C	IS 3025 (Part 44)	mg/l	BLQ(LOQ:2.0)
	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)	ing/l	BLQ(LOQ:4.0)
	Potassium as K	IS 3025 (Part 45)	mg/l	<u>BLQ(LUQ:4.0)</u>
	Dissolved Oxygen	IS 3025 (Part 38)	mg/l	6.8
	Chromium as Cr	······································	mg/l	
	Mercury as Hg	IS 3025 (Part 2)		BLQ(LOQ:0.0025)
25 /	Arsenic as As		mg/l	BLQ(LOQ:0.001)
			mg/l	BLQ(LOQ:0.001)

For Chennai Testing Laboratory Pvt ltd



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TEST REPORT

Test Report No & Date

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CTL/CH/N-29813/2024-25 & 04.10.2024

S. NO	PARAMETERS				
		METHOD	UNITS	RESULTS	
26 N	Nitrate Nitrogen as N	IS 3025 (Part 34/Sec 1)			
27 P	ercent Sodium	CTL/SOP/WATER/60	mg/)	3.77	
28 S.	and absorption ratio		%	48.73	
	l & Grease	IS 11624	-	5.15	
/	Limit of Quantification; LOQ - Limit of Quantifica	IS 3025 (Part 39)	mg/l	BLQ(LOQ:2.0)	

END OF REPORT

For Chennai Testing Laboratory Pvt ltd

Authorised Signatory

A. RAJKUMAR Head - Water & Soil Division (CHEMICAL)

Page 2 of 2

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TEST REPORT

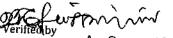
Test Report No & Date Sample Number Name of the Customer Address	CTL/CH/N-29812/2024-25 & 04.10.2024 N-29812/24-25 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II, Mondipatti Village, K.Periyapatti Post, Manapparai Taluk, Trichy District. (2019) - 2019
Sample Drawn by	Trichy District - 621 306, Tamil Nadu.
Sample Name	Laboratory
Sample Description	Ground Water Ground Water
Sampling Location	Mooka Gounder, Pongudipatti
Sample Drawn on	21.09.2024
Sample Received on Sampling Plan & Procedure	22.09.2024
Sample Quantity	Grab Sample & CTL/QSP/09
Sample Condition	2 Litres
Environmental Conditions	Good & Received in Plastic Container
Equipment used for Sampling	Temperature- 33.1°C and Humidity- 57.2%
Analysis Started on	NA
Analysis Completed on	23.09.2024
Test Results:	04.10.2024

The above sample tested as received, and results are as follows: DISCIPLINE : CHEMICAL & BIOLOGICAL

GROUP : WATER

S. N	- I ARAMELERS	METHOD		
1	Colour		UNITS	RESULTS
2	Odour	IS 3025 (Part 4)	HU	2
3	рН@25°С	IS 3025 (Part 5)	-	Agreeable
4	Taste	IS 3025 (Part 11)		7.7
5	Turbidity	IS 3025 (Part 8)	-	Agreeable
6	Total Dissolved Solids	IS 3025 (Part 10)	NTU	2
7	Calcium as Ca	IS 3025 (Part 16)	mg/l	734
8	Chloride as Cl	IS 3025 (Part 40)	mg/l	98
9	Fluoride as F	IS 3025 (Part 32)	mg/l	170
10	Iron as Fe	IS 3025 (Part 60)	mg/I	0.24
11	Magnesium as Mg	IS 3025 (Part 53)	ing/i	0.24
12	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 46)	mg/l	53
13	Sulphate as SO_4	IS 3025 (Part 43/Sec 1)	mg/l	
14	Total Alkalinity as CaCO ₃	IS 3025 (Part 24/Sec 1)	mg/l	BLQ(LOQ:0.001)
15	Total Hardness as CaCO ₃	IS 3025 (Part 23)	mg/l	59
16	Cyanide as CN	IS 3025 (Part 21)	mg/]	305
7		IS 3025 (Part 27/Sec 1)		462
	Total Suspended Solids	IS 3025 (Part 17)	<u>mg/l</u>	BLQ(LOQ:0.001)
	Residual Free Chlorine Biochemical Oxygen Demand (BOD)	IS 3025 (Part 26)	<u> </u>	BLQ(LOQ:2.0)
) ۹	<u>3 days at 27°C</u>	IS 3025 (Part 44)	mg/l	BLQ(LOQ:0.1)
	Chemical Oxygen Demand (COD)		mg/ł	BLQ(LOQ:2.0)
1	Potassium as K	IS 3025 (Part 58)	mg/l	BLQ(LOQ:4.0)
	Dissolved Oxygen	IS 3025 (Part 45)	mg/l	8
	Chromium as Cr	IS 3025 (Part 38)	mg/l	<u>8</u> 7.1
	Mercury as Hg		mg/l	BLQ(LOQ:0.0025)
	Arsenic as As	IS 3025 (Part 2)	mg/l	BLQ(LOQ:0.0025) BLQ(LOQ:0.001)
(mg/l	BLQ(LOQ:0.001) BLQ(LOQ:0.001)

For Chennai Testing Laboratory Pvt Itd



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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:

10 2120

END OF REPORT

For Chennal Testing Laboratory Pvt ltd

Authorised Signatory

A. RAJKUMAR Head - Water & Soil Division (CHEMICAL)

A. . . .

Page 2 of 2

The Report shall not be used to malign, defame and for any malicious purpase. 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 www.ctllabs.in

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		Online Treated Efflue	nt Monito	ring - April'2024	•	
Date	Inlet to ETP - Vol (M ³)	Treated Water to Irrigation - Vol (M3)	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
Мах	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



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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.

		milnadu Newsprin				
	0	nline Treated Efflu	ent Monito	ring - May'2024	-	
Date	Inlet to ETP - Vol (M ³)	Treated Water to Irrigation - Vol (M3)	РН	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

r GENERAL MANAGER

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

	Online Treated Effluent Monitoring - June'2024							
Date	Inlet to ETP - Vol (M ³)	Treated Water to Irrigation - Vol (M3)	рн	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		

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

	Onli	e Treated Efflu	ent Monit	Online Treated Effluent Monitoring - July'2024							
Date	Inlet to ETP - Vol (M ³)	Treated Water to Irrigation - Vol (M3)	РН	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					

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

Online Treated Effluent Monitoring - August'2024							
Date	Inlet to ETP - Vol (M ³)	Treated Water to Irrigation - Vol (M3)	рн	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	1.22.47	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	
12-0 8-2024	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	
7-08-2024	7394	5190	7.25	5.69	114.16	3.06	
8-08-2024	6917	5437	7.51	5.66	112.34	2.72	
9-08-2024	7101	5004	7.70	6.03	120.81	2.72	
0-08-2024	7420	5925	7.56	7.12	142.16	3.59	
31-08-2024	7213	4904	7.54	9.78	194.78	13.84	
Мах	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.

	Online T	reated Effluent	Monitori	ng . Sontombe	r'2024	
Date	Inlet to ETP - Vol (M ³)	Treated Water to Irrigation - Vol (M3)	РН	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

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





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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
mple 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	рН @ 25°С	IS 3025 (Part 11)-1983 (RA.2017)	-	7.9	5.5 to 9.0
2	Colour	IS : 3025 (Part 4)- 2021	нυ	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 Compoun d s as C ₆ H ₅ OH	IS 3025 (Part 43/sec 1) 2022	mg/l	BDL(DL:0.001)	
14	Percent Sodium	CTL/SOF/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

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TEST REPORT

CTL/CH/N-21527/2024-25 & 06.05.2024

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
16	Total Organic Carbon (TOC)	5310-C-APHA 23rd Ed.2017	mg/l	21.05	-
17	ΑΟΧ	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

Test Report No & Date

For Chennai Testing Laboratory Pvt Itd

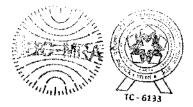
Authorised Signatory

A. RAJKUMAR Herd - Water & Soil Division (unical) Page 2 of 2

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





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	метнор	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	ни	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/I	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 SO4	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

Page 1 of 2

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TEST REPORT

Test Report No & Date 0

CTL/CH/N-22659/2024-25 & 30.05.2024

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
16	Total Organic Carbon (TOC)	5310-C-APHA 23rd Ed.2017	mg/l	10.5	-
17	ΑΟΧ	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

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For Chennal Testing Laboratory Pvt ltd

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-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	рН @ 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 SO₄	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

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Nater & Soil Division (CHEMICAL) Nadu - India Page 1 of 2



TEST REPORT

Test Re	port No & Date	CTL/CH/N-24967/2024-25 & 06.07.2024				
S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*	
16	Total Organic Carbon (TOC)	5310-C-APHA 23rd Ed.2017	mg/l	28.57		
17	ΑΟΧ	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

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A. RAJKUMAR Head - Water & Soil Division (CHEMICAL) Page 2 of 2

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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	рН @ 25°С	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 SO4	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	-
1 3	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)	+



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Page 1 of 2

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TEST REPORT

Test Report No & Date CTL/CH/N-26

CTL/CH/N-26989/2024-25 & 07.08.2024

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
16	Total Organic Carbon (TOC)	5310-C-APHA 23rd Ed.2017	mg/l	15.78	-
17	ΑΟΧ	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

Authorised Signator

A. RAJKUMAR Head - Water & Soil Division (CHEMICAL) Page 2 of 2

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TEST REPORT

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

<u>Test Results:</u>

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

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	рН @ 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 SO4	IS 3025 (Part 24/sec -1) - 2022	mg/l	254	Max.1000
9	Oil & Grease	IS 3025 (Part 39) - 2021	mg/I	< 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

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Page 1 of 2



TEST REPORT

Test Report No & Date		CTL/CH/N-28128/2024-25 & 02.09.2024				
S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*	
16	Total Organic Carbon (TOC)	5310-C-APHA 23rd Ed.2017	mg/l	54.90	-	
17	ΑΟΧ	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

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For Chennai Testing Laboratory Pvt ltd

Authorised Signatory

A. RAJKUMAR Head - Water & Soil Division (CHEMICAL)

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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 : CREMICAL

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 SO₄	4500 SO4 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 NH3 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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TEST REPORT

CTL/CH/N-29806/2024-25 & 04.10.2024

	[Г	· · · · · · · · · · · · · · · · · · ·	······	
5. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
16	Total Organic Carbon (TOC)	5310-C-APHA 24th Edn	mg/l	31.57	-
17	ΑΟΧ	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

Authorised Signatory

A. RAJKUMAR Head - Water & Soil Division (CHEMICAL)

Page 2 of 2

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Test Report No & Date

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

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





PRIMARY CLARIFIER



MOVING BED BIOFILM REACTOR (MBBR)



BIOLOGICAL ACTIVATED SLUDGE PROCESS WITH FINE BUBBLE DIFFUSERS





SECONDARY CLARIFIER



OUTLET OF DAF SYSTEM



PRESSURE SAND FILTERS



SAMPLES OF RAW EFFLUENT & FINAL TREATED WATER

GENERALMANAGER R&D AND QC

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

The following are the STP details installed Gen Pl	•	Plant and in Captive Co-
Name of the Treatment Unit	No. of Units	Dimension
STP's & Septic Tank Covered	d under Paper Bo	oard 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 C	aptive Co-Gen P	lant
Captive Power Plant area (STP #1)	1	10 KLD
STP's Covered under C	aptive Co-Gen P	lant
Housing Colony (STP #1)	1	60 KLD

The entire STP outlet, after treatment will be utilized for on land gardening.







www.ctilabs.in

TEST REPORT

Test Report No & Date	CTL/CH/H-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 D,	
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	
Semple Drawn en	26.04.2024	
cample Received on	27.04.2024	
ampling Plan & Procedure	Grab Sample & CTL/QSP/09	
Sample Quantity	2 Lives	
Sample Condition	Good & Received in Plastic Container	
Environmental Conditions	Temperature-33.2°C and Humildity- 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.

\$. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
I	pH @ 25°C	IS 3025 (Part 11)-1983 (RA 2017)	3.0	8.3	5.5 to 9.0
z	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*0	IS 3025 (Part 44) -1993 (RA 2019)	mg/l	J6	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	54	Э
5	Total Niprogen as N	IS 3025 (Part 34)-1980 (RA:2019)	mg/J	11.3	
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	4.8	4

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For Chennal Testing Laboratory Pyt ltd

Authorised Signatory

A. RAJKUMAR Head - Water & Soll Division (CHL WICAL)

Page 1 of 2

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TEST REPORT

Test Report No & Date

CTL/CH/N-21520/2024-25 & 06.05-2024

S.NO	PARAMETERS	METEROD	UNITS	RESULTS	LIMITS
	-		-	-	
licrobiolo	04			_	

"Limits as per 'INPUS Norms for 'Ireand Sewage

END OF REPORT

Verified by

For Chennal Testing Laboratory Pyt Itd. . 11 Authorised Signatory

N. RAJENDRAKUMAR Hwad - Quality & Microbiology Division (MICROBIOLOGY) Page 2 of 2

The Report Shoft AN CONSTANT OF A SAGE, Shift The Order And And And Andrean The Report is mean task for sole us by the definition of protocole by Ant Controls

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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	N/S. TAMIL HADU NEWSPRINT AND PAPERS LIMITED - UNIT D,	
Address	Mondupatti Village, K.Pernyapatti Post, Manapparas 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 Aroo	
Sample Drawn en	26.04.2024	
Sample Received on	27.04 2024	
impling Plan & Procedure	Crab Sample & CTL/QSP/09	
Sample Quantity	2 Litzes	
Sample Condition	Good & Received in Plastic Container	
Environmental Conditions	Temperature- 33.2°C and Humildity- 57.0%	
Equipment used for Sampling	NA	
Analysis Started on	27.04.2024	
Analysis Completed on	06.05.2024	

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

S. NIO	PARAMETERS	METHOD	UNIT\$	RESULTS	LIMETS
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	8.1	5.5 10 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)	nig/l	15	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	50	
5	Total Nitrogen os N	IS 3025 (Part 34)-1988 (RA:2019)	mg/l	8.5	-
6	Ammonical Nkrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA 2019)	mg/l	3.8	

QRA

For Chennal Testing Laboratory Pvt ltd

Asthorised Signatory A. RAJKUMAR Head - Water & Soil Divisial Page Lof2 (CHEMICAL)

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TEST REPORT

Test Report No & Date CTL/CH/N-21521/2024-25 & #6-05-2024

S. 140	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
licrobiele	891				
		1			

gax, - Meleanean

*Limits as per TNPCB Norms for Treared Sewage

END OF REPORT

Verified by

For Chennai Testing Laboratory Pvt ltd 5 4

Authorized Signatory

N. RAJENDRAKUMAR Page 2012 Head - Quality & Microbiology Division (MICROBIOLOGY)

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TEST REPORT

Test Report No & Date	CTL/CH/N-21522/2024-25 & 06.05.2024	
Sample Number	N-21522/24-25	
Name of the Castomer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,	
Address	Mondipatti Village, K.Periyapatti Post, Manapparas 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	
Satuple Drawn on	26.04.2024	
Symple Received on	27.04.2024	
ampling 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 rested as received, an	d results are as follows:	

5. NO	PARAMETERS	NETHOD	UNITS	RESULTS	LIMITS*
L	pH @ 25*C	IS 3025 (Part 11)-1983 (RA 2017)		7.8	5.5 to 9.0
2	Total Suspended Solids (TSS)	15 3025 (Pare 17) +1984 (RA.2021)	mą/l	9	Max-30
3	Blochemical Oxygen Demand (ROD) 3 days at 27%	IS 3025 (Part 44) -(993 (RA.2019)	mg/)	10	Max.20
4	Chemical Oxygen Demand (CUD)	IS 3025 (Part 58)-2006 (RA: 2017]	mg/l	34	0
5	Total Nitrogen as N	15 3025 (Part 34)-1988 (RA.2019)	ang/l	6.5	$r = q \in$
6	Ammonical Nitrogen as NH ₄ -N	1\$ 3025 (Part 34)-1988 (RA.2019)	me/t	2.9	

For Chennal Testing Laboratory Pytike

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A. RAJKUMAR Head - Water & Soll Division (CHEMICAL)

Page 1 of 2

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TEST REPORT

CTL/CH/N-21522/2024-25 & #6.05.2824

 S. NO
 PARAMETERS
 METHOD
 UNITS
 RESULTS
 LIMITS*

 Microbiology:
 7
 Paecal Coliform
 9221 E APHA 23rd Edn. 2017
 MPH/100mt
 23

ax. • Maximum.

Test Report No & Date

*Limits as per TNPCB Morans for Treated Sewage

END OF REPORT

Verified by

For Chennal Testing Laboratory Pvt ltd

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N. RAJENDRAKUMAR Page 2 of 2 Head - Quality & Microbiotogy Division (MICROBIOLOGY)

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TEST REPORT

Test Report No & Date	CTL/CH/N-21523/2024-25 & 06.05.2024	
Sample Number	N-21523/24-25	
Name of the Costomer	N/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	Laberatory'	
Sample Name	Sewage Water	
Sample Description	Treated Sewage Water	
Sampling Location	Admin Block Area	
Sample Draws 46	26.04.2024	
Sample Received on	27.04.2024	
sampling Plan & Procedure	Grab Sample & CTL/QSP/09	
Sample Quantity	2 Latres	
Sample Condition	Good & Received in Plastic Container	
Environmental Coaditions	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	NETHOD	UNETS	RESULTS	LIMITS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)		8.2	5.5 to 9.0
ż	Total Suspended Solids (TSS)	IS 3025 (Part 17) - 1984 (RA. 2021)	mg/l	15	May 30
	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) •1993 (RA.2019)	mg/1	14	Max-20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	nog/l	48	1.1
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)-1986 (RA.2019)	mg/l	4.0	1

For Chennal Testing Laboratory Pvt ltd

Authorised Signatury Page 1 of 2

A. RAJKUMAR Hend - Water & Soil Division CHEMICAL)

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TEST REPORT

 Test Report No & Date
 CTL/CH/N-21523/2024-25 & 06.05.2024

 S. KU
 PARAMETERS

 Microbiology:

micropiology:

7	Paecal Coliform	9221 & APHA 23rd Edn. 2017	MPN/100m1	33	

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END OF REPORT

For Chennal Testing Laboratory Petite

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N. RAJENDRAKUMAR Heart - Ouality & Microbiology Diving Right 2 of 2 (MICROBIOLOGIE)

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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 IC	
Address	Mondspatti Village, K.Periyapatti Posi, Manapparat Talok,	
	Truchy District - 621 306, J'amil 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	
^e ample Received on	27.04.2024	
ampling 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 Humuduty- 57 0%	
Equipment used (or Sampling	мл	
Analysis Started on	27.04.2024	
Analysis Completed on	06.05.2024	

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

5. NO	PARAMETERS	METHOD	UNITS	NESULTS	LINDT5*
1	рн ө 25°С	15 3025 (Part 11)-1983 (RA.2017)	-	B.5	55 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	15 3025 (Part 44) - 1993 (RA 2017)	nig/l	6	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA 2017)	mg/l	28	
5	Toral Nitragen as N	IS 3025 (Part 34)-1988 (RA.2019)	nıg/l	ō4	
6	Amaronical Nurogen as NH ₄₀ N	1\$ 3025 (Part 34)-1988 (RA.2019)	mg/i	2.3	-

For Chennel Testing Laboratory Pvt Rd

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A. RAJKUMAR Page Lof2 Head - Water & Soll Division (CHEMICAL)

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TEST REPORT

Test Report No & Date

CTL/CH/N-21524/2024-25 & 06.05.2024

S. NO	PARAMETERS	мегнор	UNITS	RESULTS	LIMITS-
Microb	iology:				
7	Paccal Coliform	9221 E APHA 23rd Eda, 2017	MPN/300mi	11	-

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"Lemits as per TNPCD Norms for Treated Sewage

END OF REPORT

For Chennal Testing Laboratory Pvi Hd

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N. RAJENDRAKUMAR Page 2 of 2 Head - Quality & Microbiology Division (MICROBIOLOGY)

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The Report shall not be used to make altipants and to any makering biliphot. The Report is mean only for controls of the same over to premare builter sem builters.

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CIN 1093000TN2000PTC043859

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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	Mondipatu Yillage, K.Periyapatti Post, Manapparal Taluk	
	Trichy District - 621 306, Tainil 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	
"ample Received on	27.04.2024	
Jampling Plan & Procedure	Grab Sample & CTL/QSP/09	
Sample Quantity	2 Litres	
Sample Conduton	Good & Received in Plastic Container	
Environmental Conditions	Temperature- 33.2°C and Humidity- \$7.0%	
Equipment used for Sampling	NA	
Agalysis Started on	27.04.2024	
Analysis Completed on	06.05 2024	

Tast Results:

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

5. NØ	PARAMETERS	METTIOD	UNITS	RESULTS	LINITST
1	рН @ 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)	nig/l	5	Max.30
3	Biochemical Ozygen Demand (BOD) 3 days at 27°C	\$ 3025 (Pari 44) -1993 (RA.2019)	ing/l	7	Max.20
4	Chemical Oxygon Demand (COD)	(\$ 3025 (Part \$8)-2006 (RA:2017)	nag/l	22	-
5	Total Mitrogen as N	IS 3025 (Part 34)-1989 (RA 2019)	mg/l	4.5	
•	Annonical Nurogen as Nil ₄ -N	IS 3025 (Part 34)-1968 (RA.2019)	mg/i	1.8	

For Chennal Testing Laboratory Pvt ltd

 $\mathbb{D}_{2,\gamma}$ Authorised Signatory

A. RAJKUMAR Page 1 of 2 Head - Water & Soll Division (CHEMICAL)

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TEST REPORT

 Test Report No & Date
 CTL/CH/N-21525/2024-25 & 06.05-2024

 S. NO
 PARAMETERS
 METHOD

 UNITS
 RESULTS
 LIMITS*

	ĺ		Faecal Coliform	9221 E APHA 23rd Edn. 2017	MPN/100ml	14	-
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*Linchs as per TNPCD Norms for Treated Sewage

***END OF REPORT

For Chennal Testing Laboratory Put ltd. 21.5

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N. RAJENDRAKUMAR Page 2 of 2 }Joanj - Quality & Microbiology Division (MICROBIOLOGY)

The Appendix Description of the state of the

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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	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk.	
	Trichy District - 621 306. Taniil 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 Numidity: 58.2%	
Equipment used for Sampling	NA	
Analysis Started on	24.05.2024	
Analysis Completed on	30.05.2024	

Teat Results:

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

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	рН@-25℃	IS 3025 (Part [1)-1983 (RA.2017)		0.2	5. 5 to 9.0
2	Total Suspended Solids (TSS)	E\$ 3025 (Part 17) -1984 (RA.2021)	nıg/	4	Max.30
\$	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) - 1993 (RA.2019)	ing/l	8	Max.20
+	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA 2017)	ing/l	28	-
5	Total Microgen as N	f\$ 3025 (Part 34)-1988 (RA 2019)	ng/l	5.7	-
6	Ammonical Nitrogen as NH - N	IS 3025 (Part 34): E988 (RA.2019)	ing/l	2.3	-

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For Chennal Testing Laboratory Public

マミ horised Signatory A. RAJKUMAR Head - Water & Solf Decision Page 1 of 2 (CHF*** 4

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TEST REPORT

CTL/CH/N-22652/2024-25 & 30.05.2024

 S. NO
 PARAMETERS
 METHOD
 UNITS
 RESULTS
 LIMITS*

 Microbiology:

 7
 Paecal Colliform
 9221 E APHA 23rd Edn. 2017
 MPN/100ml
 33
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Мас - Макімпен.

Test Report No & Date

*Limits as per TNPCR Norms for Treated Sawage

END OF REPORT

Verified by

For Channal Testing Laboratory Pvt ltd Authorized Signatory

N. RAJENDRAKUMAR Page 2 of 2 Head - Quality & Microbiology Division (MICROBIOLOGY)

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TEST REPORT

N-22653/24-25 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II. Mondipath Village, K Perlyapath Post, Manapparal Taluk
•
Mondipatti Village, K Periyapatti Post, Manapparal Taluk
Trichy District - 621 306. Tamil Nadu.
Laboratory
Sewage Water
Treated Sewage Water
Captive Power Plant Area
22.05.2024
24.05.2024
Grah Sample & CTI /QSP/09
2 Litres
Good & Received in Plastic Container
Tengerature-33.4°C and Handdity-58.2%
NA
24.05.2024
30.05.2024

Test Results:

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

S. NO	PARAMETERS	метнор	נאודג	RESULTS	LINITS*
•	рН @ 25°C	15 3025 (Part 11)-1983 (RA.2017)		0.5	5.5 tro 9.0
2	Total Suspended Solids (TSS)	l\$ 3025 (Part 17) - 1984 (RA.2021)	mg/l	£	Max.30
	Biochemical Oxygen Demand (BOD) 3 days at 27°C	19 3025 (Part 44) -1993 (RA.2019)	mg,/1	7	Max.20
4	Chemical Oxygen Demand (CQD)	IS 3025 (Part 58)-2006 (RA:2017)	ing/l	26	
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	10g/l	5.8	
6	Ammonical Nitrogen as NH ,-N	(\$ 3025 (Part 34)-1966 (RA 2019)	mg/A	2.5	

For Chennal Testing Laboratory Pvt ltd

Rin 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-22653/2024-25 # 30.05-2024

S, NO	PARAMETERS	METHOD	UNITS	RESULTS	LIM ITS*	
Microbiology:						
7	Faecal Coliform	9221 & APMA 23rd Edn. 2017	MPN/100mL	14	-	

Max, - Mattheway.

*lamits as per TNPCB Norms for Treated Sewage

END OF REPORT

For Chegnal Testing Laboratory Pvi ltd

Ma Automical Signatory

N. RAJENDRAKUMAR Page 2 of 2 Head - Quality & Microbiology Division (MICROBIOLOGY)

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TEST REPORT

Test Report No & Date	CTL/CH/N-Z2654/Z024-25 & 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.Perlyapatti Post, Manappurai Taluk	
	Trichy District - 621 306, Tamid Nadu.	
Sample Drawn by	Laboratory'	
Sample Name	Sewage Water	
Sample Description	Treated Sowage 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	Temperatures 33.4°C and Humidity- \$8.2%	
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:

5. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS
ı	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	8.5	5.5 to 4.0
2	Total Suspended Solids (15S)	IS 3025 (Part 17) - 1984 (RA 2021)	mg/l	2	Мал ЭФ
	Blochemical Oxygen Demand (BOD) 3 days at 27°C	\$ 3025 (Part 44) -1993 (RA.2019)	mg/l	э	Man 20
+	Chemical Oxygen Demand (COD)	ts 3025 (Part 58)-2006 (RA:2017)	ug/l	12	-
5	Total Nitrogen as N	ts 3025 (Part 34)-1986 (RA 2019)	mg/l	17	-
6	Ammonical Nitrogen as NH _a -N	(\$ 3025 (Part 34)-1988 (RA.2019)	ng/l	0.5	•

Q1.

For Chennal Testing Laboratory Pvt ltd

í Authorise A. RAJKUMAR Head - Water & Solt Division Page 1 of 2 (CHEMICAL)

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TEST REPORT

TestReport No & Date CTL/CH/N-22654/2024-25 & 30.05.2024

S. NO	PARAMETERS	NETHÓD	UNITS	RESULTS	LIMITS'	
Microbiology:						
7	Faecal Coliform	9221 E APHA 23rd Edn 2017	MPN/100ml	31	-	

Max - Maximum.

*Limits as per TNPGB Norms for Treated Sewage

END OF REPORT

For Chennal Testing Laboratory Pvilitd .

Autorised Signatory -

Page 2 of 2

N. RAJENDRAKUMAR Head - Quality & Microbiology Division (MICROBIOLOGY)

Verified by

The depart the load ne word to make a definit and for one realization persons. The depart is mean a only for sold use of the dath effort is grandle to other one business.

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TEST REPORT

CTL/CH/N-22655/2024-25 & 30.05.2024				
N-22655/24-25				
M/S, TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,				
Mondiparti Village, K.Penyaparti Post, Manapparai Talvik,				
Trichy District - 621 306, Tamil Nadu.				
Laboratory				
Sewage Water				
Treated Sewage Water				
Admin Block Area				
22.05.2024				
24.05.2024				
Crish Sample & CTL/OSP/09				
2 Litres				
Good & Received in Plastic Container				
Temperature- 33.4°C and Humidity- 58.2%				
NA				
24.05.2024				
30.05 2024				
	N-22655/24-25 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II, Mondiparti Village, K. Pergapara Post, Manappara Taluk, Trichy District - 621 306, Tamil Nadu. Laboratory Sewage Water Treated Sewage Water Admin Block Area 22.05:2024 24.05:2024 24.05:2024 24.tres Good & Received in Plastic Container Temperature- 33.4°C and Humidity- 58.2% NA 24.05:2024			

Test Results:

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

S.NO	PARAMET'ER5	METHOD	UNITS	RESULTS	LIMITS*
1	рН @-25°C	(5 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/J	Z	Max 30
	Biochemical Oxygon Domand (BOD) 3 days at 27°C	(5 3025 (Part 44) -1995 (RA.2019)	ing/I	9	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Pari 58)-2006 (RA:2017)	mg/l	34	
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	3.4	-
ú	Anmonical Nisrogen as NH 4-N	IS 3025 (Part 34)-1988 (RA.2019)	ing/l	1.3	-

For Cheninal Testing Laboratory Pyt ltd

Authorised Signatol

A. RAJKUMAR Head - Water & Solt Division (CHEMICAL)

Page 1 of 2

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TEST REPORT

CTL/CH/N-22655/2024-25 & 30.05.2024 Test Report No & Date Τ T I

5. NO	PARAMETERS	метнор	UNITS	RESULTS	LIMITS*		
Microb	Microbiology:						
7	Faecal Collform	9221 E APHA 23rd Edn. 2017	MPN/100ml	17			

Mag. - Maximum.

*Financias per TNPCB Normal for Treated Sewage

END OF REPORT

Verkled by

For Chennal Testing Laboratory Pvt htd AuthorBed Stenatory

N. RAJENDRAKUMAR Head - Quality & Microbiology Division Page 2 of 2 (MICROBIOLOGY)

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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	N/S. TAMIL WADU NEWSPRINT AND PAPERS LIMITED - UNIT H.			
Address	Mondipata Village, K.Periyapatti Post, Manapparai Talvik			
	Trichy District - 621 306, Tamil Nadu			
Sample Dravit by	Laboratory			
Sample Name	Sewage Vrater			
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 Linves			
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	метнод	UNETS	RESULTS	LIM(TS*
1	pH @ 25*C	LS 3025 (Part 11)-1983 (RA 2017)	-	83	55 to 9.0
2	Toral 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 (Pari 44) +1993 (RA-2019)	mg/l	4	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/i	16	
5	Total Netrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/i	2.3	-
ć	Animonical Nitrogen as Nil ₄ -N	15 3025 (Part 34)-1960 (RA.2019)	ung/I	0.7	-

For Chennal Testing Laboratory Pytikd

 $1 \cdot D$ Authorised Signatory A. RAJKUMAR Head - Water & Soil Division (CHEMICAL)

Page 1 of 2

The Becourtsheet not be used to mediger defants and for two matician purpose The Becom is means unly for soft and of the addresses to primate multi-row theorem.

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TEST REPORT

CTL/CH/N-22656/2024-25 & 30.05.2024

 S. NO
 PARAMETERS
 METHOD
 UNITS
 RESULTS
 LIMITS*

 Microbiology.

 7
 Farcal Coliform
 9221 E APHA Z3rd Edh. 2017
 MPN/100mil
 14
 .

Max - Margapum.

Test Report No & Date

'Limits as per TNPCB Norms for Treated Sewage

****END OF REPORT***

For Chennal Festing Laboratory Pro ltd

Authorized Signatory

N. RAJENDRAK()MAR Head - Quality & Microbiology Division (MICROBIOLOGY)

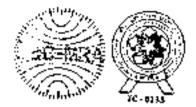
Page 2 of 2

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TEST REPORT

Test Report No & Date	CTL/CH/N-22657/2024-25 & 30.05.2024	
Sample Number	N-Z2657/24-25	
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, Tamii Nadu.	
Sample Drawn by	Laburatory	_
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 Latres	
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	метнор	UNITS	RESULTS	LIMITS*
·	µII @ 25°C	15 3025 (Part 11)-1983 (RA.2017)	-	Û.Û	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	< 2	Max.30
	Biochemical Oxygen Demand (BOD) B days at 27°C	IS 3025 (Part 44) -1993 (RA 2019)	mg/)	<2	Max.20
4	Chemical Dzygen Demand (COD)	JS 3025 (Part 58)-2006 (RA:2017)	mg/i	6	-
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA 2019)	mg/1	1.1	
6	Ammonical Nitrogen as NH ₄ -N	l\$ 3025 (Part 34)-1988 (RA-2019)	mg/)	Ð 2	-

Russell m

For Chennal Testing Laboratory Pvt ltd

ranner a d y. Em 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-22657/2024-25 & 30.05.2024

 S. NO
 PARAMETERS

 METHOD
 UNETS

Microbiology:

7 Faecal Coliform	9221 E APHA 23rd Edn. 2017	MPN/100ml	n	

Max - Maximum.

"Lumits as per TNPCB Norms for Treated Severge

END OF REPORT

For Chegnal Testing Laboratory Pvt Itd ጉ ነ Authorised Signatory-

N. RAJENDRAKUMAR Head - Quality & Microbiology Division (MICROBIOLOGY)

Page 2 of 2

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TEST REPORT

Test Report No & Date	CTL/CII/N-24963/2024-25 & 06.07.2024
Sample Number	N-24963/24-25
Name of the Customor	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Penyapatti Post, Manapparai Taluk,
	Trichy District - 621 306. Tamil Nada.
Sample Drawn by	Laboratory
Sample Name	Sewage Water
Sample Description	Treated Sewage Water
Sampling Location	Board Machine Area
Sample Drawn on	26.06.2024
Sample Received on	27.06 2024
Samping Plan & Procedure	Grab Sample & CTL/QSP/09
Sample Quantity	2 Citres
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	рн ф 25°С	15 3025 (Part 11)-1903 (RA:2017)	-	8.4	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17) - 1984 (RA.2021)	mg/l	4	Ma <u>⊭</u> 30
	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) - 1993 (RA.2019)	mg/l	7	Max.20
4	Chamical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA-2017)	mg/I	26	-
5	Total Nitrogen 45 N	(\$ 3025 (Part 34)-1988 (RA.2019)	mg/l	5.1	-
¢i	Ammonical Nitrogen as Mil _s -N	(\$ 3025 (Part 34)-1988 (RA 2019)	mg/l	2.2	-

Authorised Signator A. RAJKUMAR Page 1 of 2 Head - Water & Soll Division (CHEMICAL)

For Cheppai Testing Laboratory Pvt ltd

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TEST REPORT

Test R	est Report No & Date CTL/CH/N-24963/2024-25 & 06.07.2024					
S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*	
 Microb	lology:				-	
7	Faccal Coliform	9221 B AFMA 23rd Edn. 2017	MPN/100ml	49	-	

Max. · Maximum.

*Limits as per TNPCB Norms for Treated Sewage

***END OF REPORT

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Verified by

For Cheanal Testing Laboratory Pvt Rd

Authorized Signatory

N. RAJENDRAKUMAR Head - Quality & Microbiology Division^{Part 2 of 2} (MICROBIOLOGY)

The Report shall us be unadromatica, aginare and for any multimum paryons. The Report is mean which is solve use of the addressee to account dustries and business.

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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 NADV NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipacti Village. K.Periyapatel 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
Enviroamental Conditions	Temperature- 33.8°C and Humidity- 57.3%
Equipment used (or 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	LIM#TS*
1	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)		R4	5.5 to 9.0
2	Fotal Suspended Solids (TSS)	15 3025 (Part J7) - 1964 (RA.2021)	mg/t	13	Max 30
3	Biochemical Oxygen Demand (BOD) 3 days at 27*C	LS 3025 (Part 44) -1993 (8A.2019)	mg/l	10	Max.20
+	Chennical Oxygen Domand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	38	•
5	Total Nitrogen as N	15 3025 (Part 34)-1988 (RA 2019)	ing/l	6.9	-
6	Ammonical Mitrogen as MH , M	LS 3025 (Part 34)-1988 (RA.2019)	mg/l	3.7	-

For Chennal Testing Laboratory Pvt Itd

A + R L- U Authorised Signapory A. RAJKUMAR Head - Water & Soil Division (CHEMICAL)

Page 1 of 2

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TEST REPORT

Test Report No & Date CTL/CH/N-24964/2024-25 & 66.07.2024					
s. No	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Nicrot	Hology:				
7	Paeral Coliform	4221 E APMA 23rd O da. 2017	- MPN/100m) -	70	-

Max. - Maximum

*Limits as per TNPCB Norms for Treated Sewage

END OF REPORT

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Por Chenned Testing Laboratory Pvt htd

Authorised Signatory

N. RAJENDRAKUMAR Head - Quality & Microbiology Division (MICHOBIOLOGY)

Page 2 of 2

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TEST REPORT

Tesi Report No & Date	CTL/CH/N·24961/2024-25 & 06:07:2024	
Sample Number	N-24961/24-25	
Name of the Customer	N/S. TANIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT IL	
Address	Mondipatti Yulage, 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	
Environess stal Conditions	Temperature- 33.8*C and Humdity- 57.3%	
Equipment used for Sampling	NA	
Analysis Starred 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	LEVITTS"
	р н @ 25* С	IS 3025 (Part 11)-1983 (RA 2017)		8.0	5.5 to 9.0
2	Total Suspended Solids (188)	IS 3025 (Part 17) -1984 (RA-2021)	lag/J	z	Max.30
	Blochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	ന ്റ/ 1	3	Nax.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Paπ 58)-2006 (RA-2017)	ng/l	12	
5	Total Nitrogen as N	(\$ 3025 (Part 34)-1988 (RA 2019)	mg/l	d.t	
6	Ammonical Nitrogen as NH "·N	\$ 3025 (Part 34)+198R (RA.2019)	mg/l	1.2	•

For Chennal Testing Laboratory Pvt Itd.

A - Run Multionsed Signatory A. RAJKUMAR Page 1 of 2 Head - Water & Soil Division (CHEMICAL)

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CIN 1093000TN2000PTC043869

TEST REPORT

Test Ra	rport no & Date	7CTL/CN/N+26961/2026-25 & 06.07.21	024	••••			
\$. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS		
Nicrob	Nicrobiology:						
Þ	Faecal Coliform	9221 E APHA 23rd Edn. 2017	NPN/100m)	46	-		

Max. - Maximum.

*Limuts as per TNPCB Normal for fireshed Sewage

***END OF REPORT

(SV)

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For Chennal Testing Laboratory Pvr ltd.

Authorized Signatory

Page 2 of 2

N. RAJENDRAKUMAR Head - Quality & Microbiology Brvislon (MICROBIOLOGY)

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TEST REPORT

Test Report No & Date	CTL/CH/N-24962/2024-25 & 06.07.2024				
Sample Nomber	N-24962/24-25				
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LOUTED - UNIT II,				
Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,				
	Truthy District - 621 306, Tamil Nadu				
Sample Drawn by	Laboratory				
Sample Name	Sewage Water				
Sample Description	Treated Sewage Water				
Sanip)ing Location	Admin Block Area				
Sample Drawn on	26062024				
Sample Received on	27.06.2024				
Sampling Plan & Procedure	Grab Sample & CTL/QSP/09				
Sample Quantity	2 Litres				
Sample Condition	Good & Received us Plashe 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 43 received, and results are as follows:

S. NO	PARAMETERS	n etnod	ŲNĮTS	RESULTS	LIMITS*
1	рН <i>Ф</i> 25°C	J\$ 3025 (Part L1)-1983 (RA.2017)	-	\$.6	5.5 10 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17) - 1964 (RA 2021)	mg/l	22	Mag.30
	Biochemical Oxygen Damand (BCD) 3 days at 27°C	IS 3025 (Pari 44) -1993 (RA.2019)	m g /1	15	Max.20
+	Chemical Oxygen Demand (COD)	IS 3025 (Pari 58)-2006 (RA:2017)	mg/l	62	
5	Total Herrogen as N	LS 3025 (Part 34)-1988 (RA 2019)	mg/l	13.9	-
6	Amenonical Nitrogen as NHN	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	5,7	-

For Chennal Testing Laboratory Pvt kd

Page 1 of 2

Authorised Signator 10

A. RAJKUMAR Head - Water & Soil Division (CHEMICAL)

For Appent they' not be used to maken, defense and for one is an one purpose. The Appents means only for take one of the addressive as provide helder over bounders.

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TEST REPORT

Test R	ESI Report No & Date CTL/CH/N-24962/2024-25 & 06.07.2024						
5. NO	PARAMETERS	метнор	UNITS	RESULTS	LIMITS		
Microb	ilolegy:						
7	Faecal Coliform	9223 E APHA 23rd Bdn. 2017	MPN/100ml	79	-		

Max, • Max(mum).

*Limas as per TNPUB Norms for Treated Sewage

END OF REPORT

6.9%

Verified by

For Chegnal Yesting Laboratory Pvt Itd

Authorised Signatory

N. RAJENDRAKUMAR Head - Quality & Microbiology Divisioner 2 of 2 (MICROBIOLOGY)

The flower shall not be used to make, definite and low une makered perpart the flower in means any for talk use of the address is to provide busines and business

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TEST REPORT

CTL/CH/N-24965/2024-25 & 06.07.2024
N-24965/24-25
M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,
Trichy District - 623 306, Tamil Nadu.
Laboratory
Sewage Water
Treated Sewage Water
Pulpmill & Finishing House Area
2606-2024
27 06 2024
Grab Sample & CTL/QSP/09
2 fittes
Good & Received in Plastic Container
Temperature- 33-0°C and Humidity- \$7.3%
NA
27.06.2024
05.07.2024

Test Results:

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

S. NO	PARAMETERS	NETROD	UNITS	RESULTS	MMITTS*
1	pH @ 25%.	IS 3025 (Part 11)-1983 (RA2017)	-	87	5.5 to 9.0
z	Total Suspended Solida (TSS)	1\$ 3025 (Part 17) -1984 (RA.2021)	mg/l	3	Mak.30
	Biochemical Oxygen Doniand (BOD) 3 days at 27°C	I\$ 3025 (Part 44) -1993 (RA.2019)	mg/l	5	Max.20
4	Chemical Oxygen Demand (COD)	15 3025 (Part 58)-2006 (RA:2017)	mg/l	IR	•
5	Total Nitrogen as N	JS 3025 (Part 34)-1988 (RA.2019)	ang/)	3.9	-
6	Ammonical Nicrogen as NH "-N	IS 3025 (Part 34)-1988 (RA-2019)	mg/l	1.7	-

For Chermal Testing Laboratory Pvt ltd

Auchonised Signardy Page 1 of 2

A. RAJKUMAR Head - Water & Soil Division (CHEMICAL)

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TEST REPORT

Tesi Report No & Date CTL/CH/N-34965/2024-25 & 06.07.2024				
PARAMETERS	METHOD	UNITS	RESULTS	LIMITS-
nology:	·			
Paeral Coliform	9221 F APNA 23rd Rdn. 2017	MPN/100mJ	46	
	PARANETERS	PARANETERS METHOD	PARAMETERS METHOD UNITS	PARANETERS METHOD UNITS RESULTS

Max. - Maximum.

*Limus as per TNPCB Norms for Treated Sewage

*** END OF REPORT***

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or Chennal Testing Laboratory Pyr. Itd

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Page 2 of 2

N. RAJENDRAKUMAR - and - Quality & Microbiology Division (MICROBIOLOGY)

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TEST REPORT

Test Report No & Date	CTL/CH/N-Z4960/2024-25 & 06.07.2024				
Sample Number	N-24960/24-25				
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LINETED - UNIT IL				
Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluß,				
	Trichy District - 623 306. Tamił Nadu.				
Sample Drawn by	Laboratory				
Sample Name	Sewage Water				
Sample Description	Treated Sewage Water				
Sampling Location	iBousing 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%				
Equipmen, used for Sampling	NA				
Analysis Started on	27.06.2024				
Analysis Completed on	05.07.2024				

Test Results:

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

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMETS"
1	рН Ф 25°C	1\$ 3025 (Part 11)-1983 (RA.2017)		85	0.9 مع ک.2
2	Total Suspended Sulids (TSS)	15 3025 (Part 17) -1984 (RA 2021)	mg/l	ŧ	Max.30
3	Blochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA 2019)	mg/l	\$	Мах.20
4	Chemical Oxygon Demond (COD)	LS 3025 (Part 58)-2006 (RA:2017)	mg/l	20	11 L
5	Total Nitrogen as N	15 3025 (Part 34)-1988 (RA.2019)	mg/l	6.4	-
6	Amonomical Nitrogen as NHN	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	23	

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For Chennal Testing Laboratory Pvt ltd

A 12 G C Authorised Signatory A. RAJKUMAR Page 1 of 3 Head - Water & Soli Division (CHENICAL)

The Report shall not be used to make utilize any ten solvious percesses the Report in mean any tim the use of the addresses to manuals regime shall be used

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TEST REPORT

Test R	eport No & Date	ate CTL/CH/N-24960/2024-25 & 06.07.2024			
s. NU	PARAMETERS	метнов	UNITS	RESULTS	LIMITS*
Microl	biology:	•			
7	Faecal Caliform	9221 E APHA 23rd Rdn 2017	MPN/100ml	94	-

Max. - Maximum.

"Limits as per TNPCB Horms for Treated Sewage

END OF REPORT

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Verified by

For Chennal Testing Laboratory Pvt ltd

Authorized Signatory

N. RAJENDRAK SMAR Head - Quality & Microbiology Divisioner2 of 2 (MICROBIOLOGY)

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TEST REPORT

Test Report No & Date	CTL/CH/N-26985/2024-25 & 07.08.2024	
Sample Number	iample Number N-26985/24-26	
Name of the Customer	N/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,	
Address	Mondipatti Vullage, 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 Maduline 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	Cood & Received in Plastic Container	
Environmental Conditions	Temperature: 31.2°C and Humidity- 56.1%	
Equipment used for Sampling	NA	
Analysis Starred 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	рН @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)		7.1	5.5 to 9.0
2	Total Suspended Solids (T\$\$)	15 3025 (Part 17) - 1984 (RA 2021)	ng/l	5	Max.30
3	Diochemical Ozygen Demand (BOD) 3 days of 27°C	IS 3025 (Part 44) - 1993 (RA.2019)	ang/l	Ê	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/]	38	-
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	7.6	-
6	Ammonical Nitrogen as NH (-N	IS 3025 (Part 34)-1988 (RA 2019)	mg/l	31	

For Chennal Testing Laboratory Pvt ltd

Authorised Signapory

A. RAJKUMAR Head - Water & Soil Division (CHEMICAL)

Page 1 of 2

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TEST REPORT

CTI./CH/N-26985/2024-25 & 07.08.2024

 S. NO
 PARAMETERS
 METHOD
 UNITS
 RESULTS
 LIMITS*

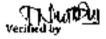
 Microbiology:
 7
 Faeral Coliform
 9221 EAPHA 23rd Edn. 2017
 MPN/100ml
 33
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Max. - Maruncom.

Test Report No & Date

*Liunits as per TNPCB Norms for Treated Sewage

END OF REPORT



For Chennal Testing Laboratory Pvt ltd

AuthoriBed Signatory

R. JAYAVARTHANAN Senior Microbiologist (MICROBIOLOGY)

Page 2 of 2

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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/5. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT (I,	
Address	Nundipatti Village, K.Penyapatti Post, Manapparal Taluk,	
	Trichy District - 621 306, Tamil Nadu.	
Sample Drawn by	Laboratory	
Sample Name	Sewage Water	
Sample Description	Tranted Sewage Water	
Sampling Location	Captive Power Plant Area	
Sangle 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 Containor	
Environmental Conditions	Temperature-31.2°C and Rugadity-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:

5. NO	PARANETERS	NETHOD	UNITS	RESULTS	LEMITS"
1	р4 Ø 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	8.9	5.5 10 9.0
z	Total Suspended Solids (T\$\$)	IS 3025 (Part 17)-1984 (RA.2021)	mg/l	•	Мал.30
	Blochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	9	Max.20
4	Chamical Oxygen Demand (COD)	IS 3025 [Part \$9)-2006 (RA:2017)	mg/l	30	
5	Total Nurogen as N	IS 3025 (Part 34)-1988 (RA-2019)	mg/l	6.2	
÷	Ammonical Nitrogen as NHN	15 3025 (Part 34)-1988 (RA.2019)	mg/l	2.7	-

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For Chennal Testing Laboratory Pvi [16]

Authorised Signatory A. RAJKUMAR Page 1 of 2

Head - Water & Soll Division (CHEMICAL)

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TEST REPORT

CT1 /CH /N.26986 /2024.25 & 07 08 2024

S. NO	PARAMETERS	метною	UNITS	RESULTS	LINITS*				
Micrabiology:									
7	Raecal Cohform	922) E APIIA 23 ¹⁴ Edu 2017	MPN/100m)	46	-				

Max. - Maximum.

Test Report No & Date

*Limits as per TNPC8 Norms for Treated Sewage

END OF REPORT

Verified by

For Chensai Testing Laboratory Pvt ltd

Authorised Stankory R. JAYAVARTHANAN Senior Microbiologist (MICROBIOLOGY)

Page 2 of 2

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CIN: U93000TN2000PTC043869

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 Disorici - 621 306. Tamii 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	01.06.2024	
Sampling Flan & Procedure	Grab Sample & CTL/QSP/09	
Sample Quantity	2 Litres	
Sample Condition	Good & Received in Plastic Container	
Environmental Conditions	Temperature-312°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	рН @ 25°C	IS 3025 (Parr 11)-1983 (RA.2017)	-	A.8	5.5 to 90
2	Toral Suspended Solids (TSS)	(\$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	-
\$	Total Nimogen as N	IS 3025 (Part 34)-1988 (KA.2019)	mg/l	4.6	
¢ .	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA 2019)	mgЛ	21	

For Chebiari Testing Laboratory Pyt Rd

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thorised sugarory A. RAJKUMAR Head - Water & Soll Division Page 1 of 2 (CHEMICAL)

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CIN - U930C0TN2000PTC043869

TEST REPORT

CTI/CH/N-26983/2024-25 & 07 08.2024 S, NO **PARAMETERS** NETHOD UNITS RESULTS LIMITS* Microbiology: 7 **Faecal Coliform** 9221 E APHA 23rd Edg. 2017 MPN/100m3 33 .

Max. - Maximum.

Test Report No & Date

*Limits as per TNPC8 Notions for Treated Sewage

END OF REPORT



For Chennal Testing Laboratory Pvt ltd

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Authorised Signatory R. JAYAVARTHA WAN Senior Microlinia Might (MICROBIOLOGY)

Page 2 of 2

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CIN 1093000TN2000PTC043869

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	N/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,	
Address	Mondipatti Village, K.Pertyapatti Post, Manapparat Taluk,	
	Trichy District - 621 306. Tamil Nadu.	
Sample Drawn by	Laboratory	
Sample Name	Sewage Water	
Sample Description	Trasted Sawage 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	01.03.2024	
Analysis Completed on	07.08.2024	

Test Results:

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

5. NO	PARAMETERS	METHOD	UNITS	RESULTS	LINITS*
ı	pH @ 25*C			8.0	5.5 to 90
z	Total Suspended Solids (TSS)	I\$ 3025 (Part 17) - 1984 (RA 2021)	का प्र/1	2	Mar_30
	Blochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) - 1993 (RA.2019)	mg/l	4	Mat 20
4	Chamical Oxygen Demand (COD)	15 3025 (Part 58)-2006 (RA:2017)	mg/t	15	
5	Total Nitrogen as N	(\$ 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	-

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For Chennal Testing Laboratory Pvt tid

Authorised Signardry ¢ A. RAJKUMAR Page 1 of 2 Head - Water & Soil Division (CHEMICAL)

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CIN: U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-26984/2024-25 ± 07 08.2024 S.NO PARAMETERS МЕТНОР UNITS RESULTS LIMITS* Microbiology: 7 Faeval Coliform 9221 E APHA 23rd Edg. 2017 MPN/100ml 11

Max. - Maximum.

"Limits as per TNPCB Norms for Treated Sewage

END OF REPORT



For Chennal Testing Laboratory Pvt itd

*ঠণ 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-26987/2024-25 & 07.08.2024	
Sample Number	N-26987/24-25	
Name of the Castomer	N/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	Sawage Water	
Sample Description	Trantad Sawage 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. NU	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25*C	IS 3025 (Part 11)-1983 (RA.2017)	-	86	5.5 to 9.0
2	Total Suspended Solids (TSS)	(\$ 3025 (Part 17) -1984 (RA.2021)	ന്നു/1	9	Max.30
3	Diochemical Oxygen Domand (800) 3 days or 27*C	IS 3025 (Part 44) -1993 (RA.2019)	sng/l	u	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58) 2006 (RA:2017)	നൃ/ി	40	
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	m⊈/l	11.8	-
6	Ammonical Nitrogen as NH ,-N	15 3025 (Part 34)-1988 (RA.2019)	mg/l	5.4	

For Chennal Testing Laboratory Pvt ltd

Authonised Signatory A. RAJKUMAR Page 1 of 2 Head - Water & Soil Division (CHEMICAL)

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CIN 1093000TN2000PTC043869

TEST REPORT

port No & Date	CTL/CH/N-26987/2024-25 & 07.08.2024				
PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*	
iology:	-				
Faecal Coliform	9221 E APHA 23 rd Edn. 2017	MPN/100ml	70		
	PARAMETERS	PARAMETERS METHOD	PARAMETERS METHOD UNITS	PARAMETERS METHOD UNITS RESULTS	

Max. - Maximum.

*Lamits as per TNPCB Norms for Treated Sewage

BND OF REPORT



For Chennal Testing Laboratory Pvt kd

Authorised Signatory

R. JAYAVARTHANAN Senior Microbiologist (MICROBIOLCGY)

Page 2 of 2

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CIN : U930007N2000PTC043869

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	N/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,	
Address	Mondipani 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 Columy Area	
Sample Draws on	31.07.2024	
Sample Received on	01/08/2024	
Sampling Plan & Procedure	Grab Sample & CTL/QSP/09	
Sample Quantity	2 Latres	
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	метнор	UNITS	RESULTS	LIMITS*
1	ρH ∉ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	83	5.5 to 9.0
5	Total Suspended Solids (TSS)	15 3025 (Part 17) - 1984 (RA 2021)	mg/l	4	Max.30
	Biochemical Oxygen Demend (ROD) 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/t	14	-
\$	Tural Nikrogen as N	15 3025 (Part 34)-1988 (RA2019)	mg/l	2.4	- <u>-</u>
6	Ammonical Nitrogen as NH (-N	IS 3025 (Part 34)-1988 (RA.2019)	mg/[0.5	-

For Chennal Testing Laboratory Pvt lid

Authorised Signatory

A. RAJKUMAR Head - Water & Solt Division (CHEMICAL)

Page 1 of 2

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CIN: U93000TN20C0PTC043869

TEST REPORT

I est ki	est Report No & Date CTL/CH/N-26982/2024-25 & 07.08.2024					
\$. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIM F TS*	
містоб	tology:		··	L		
7	Faecal Coliform	9221 E APHA 23 ^{1d} Edn. 2017	MPN/100ml	23	,	
Mex M	akimum					

MARA · MADARDURN.

"Limits as per TNPCD Norms for Treated Sewage

END OF REPORT



For Chennal Testing Laboratory Pvt Itd

Authorised Signator AN Senior Microbiologist (MICROBIOLOUY)

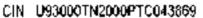
Page Z of 2

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TC - 14314

TEST REPORT

Test Report No & Date	CTL/CH/N-28121/2024-25 & 02.09.2024	
Sample Number	N-20121/24-25	
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,	
Address	Moudipatti Village, K.Periyapattı Post, Manapparai Taluk,	
	Trichy District - 621 306. Taind Nadu	
Sample Drawn by	Laboratory	
Sample Nane	Sewage Water	
Sample Description	Treated Sewage Water	
Sampling Location	Roard 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: 57.296	
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:

opanni

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25*C	IS 3025 (Part 11)-1983 (RA 2017)		0 .1	\$.5 to 9.0
z	Total Suspended Solids (TSS)	IS 3025 (Part 17) -1984 (RA-2021)	mg/J	n	Max.30
3	Biochennical 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)	(5 3025 (Part 58)-2006 (RA:2017)	m <u>a</u> /I	BE	
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA 2019)	mg/l	R .7	
÷	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA.2019)	mg/I	3.4	-

For Chennal Testing Laboratory Pvi Ad

Authorised Signatory

A. RAJKUMAR Head - Water & Soil Division

Page 2 of 2

(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

CTL/CH/N-28121/2024-25 & 02.09.2024

S. NO	PARAMETERS	METHOD	UNIES	RESULTS	LIMIT5*
Microb	iology:				
7	Faecal Coliform	9221 E AFIJA 23 rd Eda. 2017	NPN/100ml	23	

Nax. - Maximum

Test Report No & Date

*Limits as per TNPCB Norms for Treated Sewage

***END OF REPORT ***

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verified by

For Chennal Testing Laboratory Pyt ltd

Authorised Signatory

H. JANAVATORIA AN Senior Microixonest (MICROBIOLOGY)

Page 2 of 2

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Test Report No & Date	CTL/CH/N-28122/2024-25 & 02.09.2024			
Sample Number	N-28822/24-25			
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,			
Address	Mondipatti Village, K.Periyapatti Post, Manapparaj Taluk,			
	Trichy District - 621 306, Tamil Nadu.			
Sample Drawn by	Laimmanory			
Sample Name	Sewage Water			
Sample Description	Treated Sewage Water			
Sampling Location	Captive Power Plant Area			
Sample Ltawn on	23.08.2024			
Sample Received on	24 08:2024			
Sampling Plan & Procedure	Grab Sample & CTL/QSP/09			
Sample Quantity	2 Larres			
Sample Condition	Good & Received in Plastic Container			
Environmental Conditions	Temperature- 33.1°C and Humidity- \$7.2%			
Equipment used for Sampling	NA			
Analysis Started on	24.00.2024			
Analysis Completed on	02 09.2024			

Test Results:

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

S. NO	PARAMETERS	метнор	UNITS	RESULTS	TIMLL2+
1	рН @ 25°C	15 3025 (Part 11)-1983 (RA.2017)	-	S.1	5.5 to 9.0
2	Teen) Suspended Solids (TSS)	IS 3025 (Part 17) - 1904 (RA.2021)	mg/l	7	Nax.30
з	Blochemical Orygen Demand (BOD) 3 days at 27°C	15 3025 (Part 44) •1993 (RA.2019)	mg/l	6	Max.20
4	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (PA:2017)	ng/t	22	-
5	Total Nitrogen as N	IS 3025 (Part 34)-1988 (RA.2019)	mg/l	3.5	-
6	Ammonical Nitrogen as NHN	IS 3025 (Part 34)-1988 (DA 2019)	mg/l	16	

For Chennel Testing Laboratory Pvt ltd

Head - Water & Soll Bivisi8k Page Lof Z (CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

CTL/CH/N-28122/2024-25 & 02.09.2024

S. NO	PARAMETERS	метнор	UNITS	RESULTS	LIMITS"
Nicrob	Nology:	/			
7	Faeral Coliforn	9221 E APHA 23 rd Fdn. 2017	NPN/100ml	46	

Мах. • Махилиция.

Test Report No & Date

"Lanuts as per TNPCB Norms for Treated Sewage

END OF REPORT

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Verdied by

For Clievinal Testing Laboratory Prilid Ծ⊐եъ Authorised Signatory

R. JAYAVARTHANAN Page 2 of 2 Senior Microbiokogist (MICROBIOLOGY)

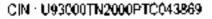
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Phone : +91-44-2250 1757 | E-mail . chennaitesting@chennaitestinglab.com . www.ctilebs.in







СТL/СН/N-28123/2024-25 & 02.09.2024
N-20123/24-25
M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT ().
Nondipatti Village, K.Periyapatti Post, Massapparal Taluk,
Trichy District - 621 306, Tamil Nadu.
Laboratory
Sewage Water
Treated Sewage Water
Guest House Area
23.08.2024
24.08.2024
Grab Sample & CTL/QSP/09
2 Litres
Good & Received in Plastic Container
Temperature- 33.1°C and Humidity- 57.2%
NA
24.08.2024
02.09.2024

Test Results:

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

S. NO	PARAMETERS	METHOD	UNITS	REŞŲLTŞ	LIN Ţ\$*
1	рн @ 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	+	Max_30
3	Bioclieniical Oxygen Deniand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	6	Max.20
4	Chenneal Oxygen Demand (COD)	IS 3025 (Part 58) 2006 (BA-2017)	nıg/l	23	
s	Total Nitrogen as N	IS 3025 (Part 34)-1989 (RA 2019)	mg/l	3.3	
6	Ammonical Nurogen as Nit _e -N	IS 3025 (Part 34)-1988 (RA.2019)	ing/)	1.5	-

For Chennal Testing Laboratory Pvt ltd.

Authorised Signator A. RAJKUMAR Head - Water & Soll Division Page L of 2 (CHEMICAL)

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CIN: U93000TN2000PTC043869



TEST REPORT

Test Report No & Date CTL/CH/N-28123/2024-25 & 02.09.2024 S. NO PARAMETERS METHOD UNITS RESULTS LIMITS* Microbiology: 7 Frend Coliform 9221 E APNA 23"" Edn. 2017 MPN/100ml 33 Marc - Malotaum.

"Linens as per I'MPCB Norms for 'Frealed Sewage

END OF REPORT

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Verlfied by

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For Chennoi Testing Laboratory Pvt ltd

Authorized Signatory

R. JAYAVARTHANAN Senior Microbiologist (MICROBIOLOGY)

Page 2 of 2

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CIN : U93000TN2000PTC//43869

TEST REPORT

Test Report No & Date	CTI./CH/N-28124/2024-25 & 02.09.2024
Sample Number	N-20124/24-25
Name of the Customer	N/S. TAMIL NADU NEWSPRINT AND PAPERS LINUTED - UNIT (),
Address	Nondipatti Village, K.Penyapatti Post, Manapparai Talok,
	Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laheratory
Sample Name	Sewage Water
Sample Description	Treated Sewage Water
Sampling Location	Admin Block Area
Sample Drawn on	23.08.2024
Sample Received on	24.00.2024
Sampling Plas & Procedure	Grab Sample & CTL/QSP/09
Sample Quantity	2 Lures
Sample Condition	Good & Received in Plastic Container
Environmental Conditions	Temperature- 33.1% 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	MÉTHÓD	UNITS	RESULTS	UNITS"
1	рН @ 25°C	15 3025 (Part 11) 1983 (DA-2017)		8.1	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	\$	Max 30
	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	34	-
5	Total Nitrogen as N	JS 3025 (Part 34)-1986 (RA.2019)	ing/i	6.4	
6	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34)-1988 (RA 2019)	mg/l	2.7	-

For Chennal Testing Laboratory Pvt Itd

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C-4 Authonsed Senatery A. RAJKUMAR Head - Water & Soll Division Page Lot 2 (CHEMICAL)

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CIN: U93000TN2000P1C043869



TEST REPORT

CTL/CN/N-28124/2024-25 & 02.09.2024 S.NO PARAMETERS метнор UNITS RESULTS LIMITS Microbiology: 7 Faecal Coliform 4221 E APHA 23rd Edn. 2017 MPN/100ml 23 Max. - Maximum.

Test Report No & Date

*Lonios as per TNPCB Norms for Treated Sewage

***END OF REPORT ***

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Vertified by

For Channai Testing Laboratory Pvt Itd Authorised Signator

R. JAYAVARTHANAN Senior Microhioingist (MICROBIOLOGY)

Page 2 of 2

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CIN : U93000TN2000PTC043869



TEST REPORT

Test	Report No & Date	CTL/CH/N+28125/2024+25 & 02.09.3	2024			
Samp	de Number	N-28125/24-25 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II. Mondipard Village, K.Pertyapatti Posi, Nanapparai Tatuk,				
Name	of the Customer					
Addr-	ess					
		Trichy District 621 306, Tamil Nadu.				
Samp	le Drawn by	Laboratory		<u> </u>		
Samp	le Name	Sewage Water				
Samp	le Dawoription	Treated Sewage Water				
Śatinpi	ling Location	Palpmill & Finishing House Area				
Sanıpl	le Drawn yn	Z3.08.2024				
Sampl	e Received on	24.08.2024				
Sampi	ing Plan & Procedure	Grah Sample & CTL/QSP/09				
Sample Quantity		2 Litres				
Sampl	e Candition	Good & Received in Plastic Container Temperature: 33.1°C and Humidity: 57.2%				
Eoviry	nmental Conditions					
Equip	ment used for Sampling	NA				
4 naiys	is Started on	24.09,2024				
Anatys	is Completed on	02.07.2024				
l es<u>t Re</u> 'he siso	<u>Pails:</u> ve sample restorias received, and re					
	ie suidee region do reproved, aid ve	sons are as follows.				
5. NQ	PARAMETERS	метңор	UNITS	RESULTS	LIMITS	
1	p":@25°C	JS 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/i	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	

5. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS
1	µ":@25°C	JS 3025 (Part 11)-1983 (RA.2017)	-	7.8	5.5 to 9.0
2	Total Susponded Solids (TSS)	15.3025 (Part 17) -1984 (RA.2021)	mg/i	3	Max.30
3	Biochemical Oxygen Deniahd (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	•	Max.20
4	Chemical Oxygen Densand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	nig/i	18	
5	Total Nitrogen as N	I\$ 3025 (Pari 34)-1988 (KA.2019]	mg/l	3.7	
6	Ammonical Nitrogen as NH4-N	IS 3025 (Part 34)-1908 (RA.2019)	mg/l	12	

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For Chennal Testing Laboratory Pvt Ind

Authorised Signalupy

A. RAJKUMAR Hood - Water & Soil Division (CHEMICAL)

Page 1 of 2

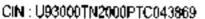
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Test R	st Report No & Date CTL/CH/N-2R125/2024-25 & 02.09.2024					
S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*	
Microb	iology:		-		·	
,	Faecal Cofiform	9221 E APHA 23 rd Edn. 2017	NPN/100m)	49		

Мах. - Махнонир

"Limits as per TMPC0 Norms for Treated Sewage

***END OF REPORT

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Verified by

For Chennal Testing Laboratory Pvi Itd

Authorised Signatory

Page 2 of 2

R. JAYAVARTISANAN Senior Minrothermoin (MICROBIOLOGY)

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CIN · U93000TN2000PTC043869



TEST REPORT

Test Report No & Date	CTL/CH/N-28126/2024-25 & 02.09.2024				
Sample Nomber	N-28126/24-25				
Name of the Customer	M/S. TANIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT IL				
Address	Mondipatu Village, K.Periyapatu Post, Manapparai Taluk,				
	Trichy District - 621 306, Tamil Nadu				
Sample Drawn by	Laboratory				
Sample N	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	02.03.2024				
Test Results:					
The above sample tosted as securved, and	Insults are as follows:				

s no	PARAMETERS	METHOD	ONITS	RESULTS	LIMITS-
ı	pH @ 25%	IS 3025 (Part 11)-1983 (RA.2017)		7.8	
2	Total Suspended Solids (TSS)	IS 3025 (Part 17) - 1984 (RA.2021)	nig/l	5	Max.30
	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	1\$ 3025 (Part 34)-1988 (RA.2019)	mg/l	4.2	-
6	Ammonical Nitrogen as NH ₆ -N	IS 3025 (Part 34)-1988 (RA:2019)	nig/l	1.9	-

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For Chennal Testing Laboratory Pvt ltd

Authorised Signato J

A. RAJKUMAR Head - Water & Soli Division (CHEM/CAL)

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Page 1 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Rep	ort No & Date	CTL/CH/N-28126/2024-25 & 02.09.	2024		
5. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbia	logy:				
7 K	actat Coliforn	9221 E APHA 23 ¹⁴ Edn 2017	MPN/100ml	70	

Max - Maximum

*Limits as per TNPCB Norms for Treated Sewage

END OF REPORT

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Vorified by

For Chennas Teshing Laboratory Pet Itd Authorised Signatory

R. JAYAVARTHANAN Senior Microbiologist (MICROBIOLOGY)

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CIN: U93000TN2000PTC043869



TEST REPORT

Test Report No & Date	CTL/CH/N-29799/2024-25 & 04.10.2024
Sample Number	N-29799/24-25
Name of the Costomer	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 Litras
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	UMITS*
•	рН @ 25°C	4500 원+ B- APHA 24th Edn		7.6	5.5 to 9.0
z	Total Suspended Solids (TSS)	2540 D- APIIA 24th Edn	mg/l	Đ	Max.30
	Biochemical Oxygen Demand (BOD) 3 days at 27°C]S 3025 (Part 44)	mg/l	7	Max.20
4	Cliemical Oxygen Demand (COD)	5220 B- APHA 24th Edn	mg/l	76	-
5	Tutal Niu ogen as N	4500 - N - APIJA 24th Edn	mg/l	6.8	
6	Ammonical Nitrogen as NH ₄ -N	4500 NH3 B, C - APHA 24th Edn	mg/l	2.9	1

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For Chennal Testing Laboratory Pvt itd

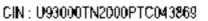
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CTL/CH/N-29799/2024-25 & 04 10 2024

5. NO	PARAMETERS	METHOU	UNITS	RESULTS	LUMITS*		
Містов	lology:	· · · ·					
7	Faecal Coliform	9221-E- APHA 24 ⁰⁰ Ed	MPN/100ml	33			

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Test Report No & Date

"Limits as per TNPCB Norms for Treated Sewage

END OF REPORT

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For Opennal Testing Laboratory Pet Itd.

Authorised ťorv

R. JAYAVARTHANAN Senior Microbiologist (MICROBIOLOGY)

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.ctilabs.in



CIN: U93000TN2000PTC043869



TEST REPORT

CTL/CH/N-29800/2024-25 & 04.10.2024 N-29800/24-25 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II. Mondipath Village, K Perlyapatti Post, Manapparai Taluk,	
Mondipath Village, K Perlyaparti Post, Manapparai Taluk,	
Trichy District 621 306, Tanul Nadu.	
Laboratory	
Sewage Water	
Treated Sewage Water	
Captive Power Plant Area	
21.09.2024	
22 09:2024	
Grab Sample & CTL/QSP/09	
2 Litres	
Good & Received in Plastic Container	
Temperature- 33.1°C and Humdity- 57.2%	
NA	
23 09 2024	
04-10.2024	
	Laboratory Sewage Water Treated Sewage Water Captive Power Plant Area 21.09.2024 22.09.2024 Grab Sample & CTL/QSP/09 2 Litres Good & Received in Plastic Container Temperatures 33.1°C and Humdity- 57.2% NA 23.09.2024

<u>Test Results:</u>

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

DISCIPLINE : CHEMICAL & DIOLOGICAL

GROUP SPOLLUTION AND ENVIRONMENT

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
l	рН @ 25*C	4500 N+ B- APHA 24ch 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 (#9D) 3 days at 27°C	IS 3025 (Part 44)	mg/l	8	Hax.20
9	Chemical Oxygen Demand (COD)	5220 B- APMA 24th Edn	ang/l	28	-
5	Total Nitrogen as N	4500 - N - APHA 24th &dn	mg/1	6.4	•
6	Ammon(cal Niurogen as NH ₄ -N	1500 HH3 D, C · APJIA 24th Edn	nig/l	2.7	

Anthonised Signation A. RAJKUMAR Head - Water & Sol? Division (CHEMICAL) Page 1 of 2

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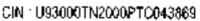
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CTL/CN/N-29800/2024-25 & 04.10.2024

\$. NO	PARAMETERS	METHOD	UNITS	KESUL TS	LIMITS
Microb	iology:				
7	F≫cal Colifor⊮o	9221-E- APHA 24 th FA	MPN/100ml	79	

laa. - Maximuto

Test Report No & Date

*Limits as per TNPCB Norms for Treated Sewage

*** END OF REPORT***

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Verified by

For Chequal Testing Laboratory Pvt Nd

Authorised Signatory

R. JAYAVARTHANAN Senior Macrobiological (MICROBIOLOGY)

Page 2 of 7

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CIN : U93000TN2000PTC043869



TEST REPORT

Test Report No & Date	CTL/CH/N-29801/2024-25 & 04.10.2024	
Sample Number	N-29601/24-25	
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	Guøst 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 Humidiry- \$7,2%	
Equipment used for Sampling	NA	
Analysis Started on	23.09.2024	
Analysis Completed on	04.10.2024	

LIST INSULS:

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

DISCIPLINE : CHEMICAL & BIOLOGICAL GROUP : POLLETION AND ENVIRON

GRODI	ROUP : POLLETION AND ENVERONMENT						
S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS		
ı	pH @ 25°C	4500 H+ H- АРНА 24th Edn		7.5	5.5 to 9.0		
2	Total Suspended Solids (TSS)	2\$40 D- APHA 24th Edo	mg/l	8	Max.30		
3	Biochémical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)	mg/l	5	Мак.20		
+	Chemical Oxygen Demand (COD)	5220 B- APHA 24th <u>B</u> an	mg/l	81	-		
5	Total Nitrogen as N	4500 · N · APHA 24th Edo	mg/l	42			
6	Ammonical Nitrogen as NH ₄ -N	4500 NH3 B. C - APIJA 24th Edn	ng/l	1.9			

For Chennal Testing Laboratory Pvt ltd

Authorised Signat الاستنباب الم

E.

A. RAJKUMAR Head - Water & Soil Division (CHEMICAL)

Page 1 of 2

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CTL/CH/N-29801/2024-25 & 04.10.2024

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microl	oložogy:			I	
7	Faecal Colliform	922 I.E. APHA 24 th Ed	M2N/100m)	44)	 _

Маж - Мазелецт

Test Report No & Date

*Lemits as per TNPCB Norms for Treated Sewage

END OF REPORT

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Verified by

For Chemnal Testing Laboratory Pyt (id

Authorised Signatory

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R. JAYAYARTWABAN Senior Microbanogisi (MICROBIOLOGY)

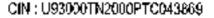
Page 2 of 2

The Report shall not be used returning a different and for any walk have payed of the Report Article Core for sole used of the administra toporation high ecourt process.

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CTL/CH/N-29802/2024-25 & 04.10.2024	
N-29802/24-25	
M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,	
Mondipatti Village, K.Periyapatti Post, Nonapporal Taluk,	
Trichy District - 621 306, Tamil Nadu.	
Laboratory	
Sewage Water	
Treated Sewage Water	
Admin Block Area	
21.09.2024	
22.09.2024	
Grab Sample & CTL/QSP/09	
2 Litres	
Good & Received in Plastic Container	
Temperature- 33.1°C and Humildity- 57.2%	
WA	
23.09.2024	
04.10.2024	
	N-29802/24-25 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II, Mondipatti Village, K.Periyapattl Post, Monapporal Taluk, Trichy District - 621 306, Tamil Nadu. Laboratory Sewage Water Treated Sewage Water Admin Block Area 21.09.2024 22.09.2024 Grab Sample & CTL/QSP/09 2 Litres Good & Received in Plastic Container Temperature- 33.1°C and Humidity- 57.2% MA 23.09.2024

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

DISCIPLINE : CHEMICAL & BIOLOGICAL

GROUP . POLILITION AND ENVIRONMENT

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS
ì	pfl @ 25°C	4500 H+ 8- APHA 24th Eda	-	7.7	5.5 to 9.0
2	7 otal Suspended Solids (TSS)	2540 D- APHA 24th Edo	mg/l	12	Мал.30
	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Porr 14)	mg/l	10	Max.20
4	Chemical Oxygen Demand (COD)	S220 B- APHA 24th Edu	ing/l	30	-
5	Total Nitrogen as N	4500 · M · APHA 24th Edn	mg/l	82	
6	Ammonical Nitrogen as NH ₄ -N	4500 NH3 B. C - APITA 24th Edu	nıg/J	3.9	

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For Chennal Testing Laboratory Pvt Itd.

Authonised Signato

A. RAJKUMAR Head - Water * 1 nit Division

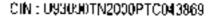
Page 1 of 2

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CTL/CH/N-29802/2024-25 & 04.10.2024

\$. NO	PARAMETERS	метнор	UNETS	RESULTS	LIMITS*			
Micrablology.								
7	Paecal Coluform	9221- 6- АРИА 24^d' E d	MPN/200ml	23	-			

Max · Meximum.

Test Report No & Date

"Limits at per TNPCB Norms for Trested Sewage

END OF REPORT

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Verified by

For Chopgal Testing Laboratory Pvt Itd.

i Vite Authorised Signatory

R. JAYAVARTHANAN Senior Microbiologist (MICROBIOLOGY)

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Page 2 of 2

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CIN: U93000TN2000PTC043869



TEST REPORT

CTL/CH/N-29804/2024-25 & 04-10.2024				
N-29804/24-25				
M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,				
Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,				
Trichy District - 621 306, Tamil Nadu.				
Laboratory				
Sewage Water				
Treated Sewage Water				
Pulpmill & Finishing House Area				
21.09.2024				
22.09.2024				
Grab Sample & CTL/QSP/09				
2 Litres				
Good & Received in Plastic Container				
Temperature- 33,1°C and Humidity- 57,2%				
на				
23.09.2024				
04.10.2024				

Test Results:

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

DISCIPLINE : CHEMICAL & BIOLOGICAL

GROUP : PULLUTION AND ENVIRONMENT

S. 140	PARAMETERS	METHOD	UNITS	RESULTS	UMITS*
1	pH @ 25°C	4500 H+ B- APHA 24th Edn	•	7.5	5.5 to 90
2	Tatal Suspended Solids (TSS)	2540 D- APHA 24th Edn	mg/I	7	Max.30
	Biochemical Oxygen Demand (BOD) 3 days at 27°C	15 3025 (Part 44)	Jng/t	6	Max.20
. 4	Chemical Oxygen Demand (COD)	S220 B- APHA 24th Edn	mg/l	22	•
5	Total Nitrogen as N	#500 · N - APHA 24th Rdn	mg/l	41	-
6	Ammonical Nuragen as NR ₄ -N	4500 NH3 B, C · APHA 24th Edn	.mg/t	18	-

For Chennal Testing Laboratory Pvt Inf.

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Head - Water & " el Division Page 1 of 2 (CBL.auchil)

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CIN 1 U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/N-29804/2024-25 & 04.10.2024					
5. NO	PAKAMETERS	метнор	UNITS	RESULTS	LIMITS*
Microbi	lology:	1 .	•		
7	Faecal Coliform	9271-E- APHA 24 th Ed	MPN/100ml	70	-

Max. · Maximum.

*Limits as per TMPCB Norms for Treated Sewage

*** END OF REPORT***

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Verlfied by

For Chennal Testing Laboratory Pvt ltd

R. JANHATA ŇΔN Senior Microbiologist (MICROBIOLOGY)

Page 2 of 2

The Report that not be under making deforts and for any make our property. The Report is any car only by species of the order processes in the transmission of the

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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 (),				
Address	Mondipatta Vallage, K.Periyapatta Post, Manapparai Taluk,				
	Truchy 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

\$. NO	PARAMETERS	метноо	UNITS	RESULTS	LIMITS*
L	µዝ @ 25*ር	4500 H+ B- APHA 24th Edn	-	7.6	55 to 9,0
2	Total Suspended Solids (TSS)	2540 D- APHA 24th Edo	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	26	
5	Total Nitrogen as N	4500 · N - APMA 24th Edn	mg/l	5.1	-
6	Ammonical Nitrogen as NH ₄ -N	4500 NH3 B, C · APHA 24th Edn	mg/l	2.3	-

For Chennal Testing Laboratory Pvt ltd

Authorised Signatory

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A. RAJKUMAR Head - Water & Soil Division (CHEMICAL)

Page 1 of 2

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CIN ; U93000TN20C0PTC043869

TEST REPORT

Test Report No & Date CTL/CII/N-29003/2024-25 & 04.10.2024								
S. ND	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*			
Micmble	Micmblology:							
7 E	Farcai Coliforne	9221-E- APHA 24 th Eu	MPN/100ml	46				

Мах. - Малитин.

"Lumits as per TNPCB Norms for Treated Sowage

***END OF REPORT

6541

Verified by

For Chepnai Testing Laboratory Pvt itd Authorised Signatory

•••

R. JAYAVANO HABANA Senior Matrobologist (MICROBIOLOGY)

Page 2 of 2

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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.



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

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

GENERAL-MANAGER R8D AND QC TAMILNADU NEWSPRINT AND PAPERS LIMITED (BOARD DIVISION) MONDIPATTI, KPERIYAPATTI (PO), MANAPPARAI (TK.), TRICHY (DT)-621306.



TNPL Unit - II Water Flow Meters installed at WPP, Board Machine









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TEST REPORT

Test Report No & Date	CTL/CH/N-21518/2024-25 & 03.05.2024
Sample Number	N-21518/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT 11,
Address	Mondipatti Village, K.Periyapatti Posi, Manappazai Taluk,
	Trichy District • 621 306. Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Nolse
Sample Description	AMBIENT NOISE
Sampling Location	Guest House
Sample Drawn on	25.04.2024 to 26.04.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 9989
juipment used for Sampling	Sound level Meter S No.554062

Test Results:

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

SLN0	DATE	TILLE	N	OISE LEVEL VALUES Log d	iB(A)
STHO I	DALE	DATE TIME	Leq	Average Leg	* Limits Leq dB(A)
		AY TIME			•
1		10.30	48.3		
2		11.30	47.6		
3		12.30	47.9		
•		13.30	49.3		
5		14.30	46.7		
6	24.04.2024	15.30	45.0		
?	24.04.2024	16.30	40.2		
\$		17.30	44.0	47.2	75.0
2		18.30	49.5	**	75.0
10		19.30	50.0		
11		20.30	£2.0		
12		21.30	41 .5		
13		630	4 6.5		
14	25.04.0024	7.30	480		
15	25.04.2024	B.30	51.0		
16		9.30	49.5	-	
	NÌ	GHT TIME			
17	24.04.2024	22.30	40.2		
96	64.04.2064	23.30	37.0]	
19		0.30	30.0]	
20	2504.2024	1.30	37.5	38.6	70.0
21		2 30	30.6	30.0	/00
22		3.30	36.6		
23		4.30	38.5		
21		5.30	42.5	7	

Day Time:(06.00 Hra to 22 00 Hrs), Night time (22 00 Hra to 06.00 Hrs)

* TNPCB Limits as per Schedule III , Ambient air quality standards irrespective of Norse (Day & Night Time)

*** END OF REPORT***

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For Chennal Testing Laboratory Pvi Ltd

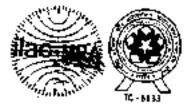
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Page I of L





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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 Brawn hy	Laboratory
Sample Name	Noise
Sample Description	AMBIENT NOLȘE
Sampling Location	Factory Canteen Building
Sample Drawn on	25 04.2024 to 26.04.2024
Sampling Plan & Procedure	CTL/QSP/P-89 & IS 9989
Juipment used for Sampling	Sound level Meter S No:554062

Test Results:

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

SL.NO	UATE	TIME	6	IDISE LEVEL VALUES Log d	B(A)
SLAV	WATE	DATE IIME	Leg	Average Log	⁴ Limits Leg dB(A)
		MAY TIME		· · ·	
1		10.30	58.2		
Z		11.30	576		
3		12.30	610		
4		13.30	54,8		
5	i	14.30	56.1		
6	24.04.2024	15.30	52.0		
7	41- 4	16.30	53.6		
\$		17.30	\$4.0	54.2	1
9		10.30	\$8.5	- 563	75.0
ι¢		19.30	\$\$.0	7	
11		20.30	\$3.6	-	
12		21.30	52.2		
13		6.30	54.2	7	
14	25 .04.203 4	7.30	58.0		
15	23042014	6.30	59.6		
16		9.30	62.5		
	NI	SHT TIME			•
17	24.04.2024	22 30	48.0		
19	1404.2024	23.30	+6.2		
19		0.30	44.5	7	
20	[1.30	45.2	140	
21	25.04.2024	2.30	+4.8	- 46-0	70.0
22	23.09.2029	3.30	43.8	7	
23		4.30	45,7	1	
24	ſ	5.30	49.5	1	

Day True. (06.00 Hts to 22.00 firs), Night time (22.00 His to 06.00 Hrs)

* TNPCB Linuts as per Schedule III , Amblent all quality standards trrespective of Noise (Day & Night Time)

----END OF REPORT***

For Chennel Testing Laboratory Pvt Ltd

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Phone : +91-44-2250 1757 [E-mail : chennaitesling@chennailestinglab.com





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TEST REPORT

Test Report No & Date	CTL/CH/N-21518B/2024-25 & 03.05.2024
Sample Number	N-21\$18B/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Perfyapatti Post, Manapparai Taluk.
	Trichy District - 621 306, Tamil Nadu.
Sample Draws 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
juipment used for Sampling	Sound level Meter S No:554062
in the later of th	

Test Results

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

SL.NO	DATE		N	DISE LEVEL VALUES Leg dE(A)	
	DATE		Log	Average Leq	* Limits Log dD(A)
	0	MY TIME			
1		10.50	62.0		
2		11.30	64.Z		
3		12.30	66.0		
4		13.30	62.1		
\$		14 30	63.Z		
ί,	24 04 2024	15-30	60.5		
7	27092027	16.30	57,9		
8		17.30	610	49.7	740
9		18.30	634	62.7	75.0
10		19.30	6-6-Z		
11		20.30	65.8	1	
12		21.30	66.4	1	
13		v.30	\$7.\$	1	
J4	25 04 2024	7.34	62.0	1	
15	23042024	8.30	60.4	7	
16		9.30	64.2	1	
	. NI	GHT TIME		•	
17	24.04.2024	22.30	\$6.0		
18	64.04.2064	23.30	\$7.0		
19		0.30	\$9.2		
20		1.30	55.B	7	20.0
21	25.04.2024	2.30	\$2.0	- 54.6	70.0
22	23.042024	3.30	\$ 1 .Û	1	
Z 3		4.30	\$3.2	7	
24	í í	5.30	\$2.7	1	

Day Time: (05.00 Hrs to 22.00 Hrs). Night time (22.00 Hrs to 06.00 Hrs)

* TMPCB Limits as per Schedule III , Ambeent air quality standards (prespective of Noise (Day & Night Time).

END OF REPORT

Qadan

For Chennal Testing Laboratory Pvi Ltd

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A - Super 19, T.V.K. Industrial Estate, Guindy, Channai - 600 032/17899/16430/199664

CHEMICAL) Phone . +91-44-2250 1757 | E-mail . chennaitesting@chennailestinglab.com





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TEST REPORT

E/24-25
HIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT 13,
tti Village, K.Periyapatti Posi, Manapparaj Taluk,
strict • 621 306. Tamil Nadu.
ny
r Noise
Sub station(Right Side 10m Away)
24 to 26.04.2024
/F-89 & IS 0089
el Meter S No:554062

Test Results:

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

SLNO	DATE TIM6.		TIME	N	OISE LEVEL VALUES Leg (18(A)
			Leq	Average Leg	· Limits Log dB(A)	
		DAY TIME				
1		10.30	553			
2		11.30	582			
3		12.30	59.8			
4		13-30	62.3			
5		14.30	57.0			
6	24 04 2024	15.30	60.0			
7	2409 2024	16.30	614			
8		17.30	62.5	57.9	75.0	
2		10.30	61.2		1 10	
10		19.30	\$7.0			
11		20.30	56.0			
12		21.30	54.5			
¢ [6.30	51.0			
14	25.04.2024	7.30	34.0			
15	20042024	8.30	36.6			
16		9.30	\$-8-5	7		
	. N)	снт тіме		•		
17	24.04.2024	22.30	\$1.0			
<u>1</u> 9	24.94.9964	23.30	50.2			
19		0.30	47.0			
20		1.30	45.6	47.1	20.0	
71	25.04.2024	2.30	46.2	- •/.J	700	
Z2	72043074	1.30	44.0	1		
Z 3		4.30	45.8	1		
24		5.30	46.6	4		

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 crespective of Noise (Day & Night Time)

END OF REPORT

For Chennal Testing Laboratory Pvt Ltd

The Superior that not be used to mation, calarier and for any motivour provident design atory The Across a means only for soil and of the astroney as parties and the and the and the BI A SHKANOAN

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600;03; Jamit Machuvili a

ChEMICAL) Phone : +91-44-225D 1757 | E-mail : chennaitesting@chennaitestinglab.com





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TEST REPORT

ERS LIMITED - UNIT II,
pparai Taluk,

Test Results

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

SLNO	DATE TIM		TIME	N	IOISE LEVEL VALUES Leg d)B(A)
36,00		1005	Leq	Average Leq	* Linske Log dB(A)	
	1	DAY TIME				
1		10.30	53.2			
2		11.30	55.2			
E .		12.30	54,9]		
+		13.30	56.3			
5		14.30	57.1			
6	24.04.2024	15.30	\$2.6			
7	24.04.2024	16.30	514			
8		17.30	52.7	51.8	75.0	
Ŷ		18.30	50.2	51.0	75.0	
10		19 30	51.6			
11		20.30	52.5	7		
12		21.30	40.5			
3 13		6 30	15.6			
14	25.04.2024	7,30	46.2			
ι5	23.04.2024	0.30	48.5			
L6		9.30	52,9		F	
	50	GHTTIME				
17	Z4 04 2024	22/30	44.0			
1 8	27072017	23.30	42.0			
19		0 30	10.6	7		
20	25.04.2024	1.30	41.0		20.0	
21		2.30	40.2	42.1	70.0	
22		3.30	41.5	•		
23		4.30	42.6			
24		5.30	44.5	7		

Day Time. (06.00 Hrs to 22.00 Hrs), Night 4the (22.00 Hrs to 06.00 Hrs)

* TNPCB lamits as per Schedule III . Ambient air quality standards in respective of Noise (Day & Night Time)

END OF REPORT

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Page I of 1

For Chennal Testing Laboratory Pri Ltd

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TEST REPORT

Test Report No & Date	CTL/CH/N-21518D/2024-25 & 03:05:2024			
Sample Number	N-21516D/24-25			
Name of the Customer	M/S. TANIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT 11,			
Address	Mondipata 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	West Entrance Gate(Right side 50m eway From the Gate, 10m from Compound wall)			
Sample Drawn on	25.04.2024 to 26.04.2024			
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 9989			
wip)gent used for Sampling	Sound level Meter'S No:554062			

Test Results:

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

SL.NO	DATE	TINE	NOISE LEVEL VALUES Leq dB(A)		
SC.NU			Leq	Average Leq	* Limits Leg dB(A)
		MAY TIME			
1		10.30	56.6		
Z		11.30	58.3		
3		12.30	\$7.4		
		13.30	55-8		
5		14.30	57.9		
4	24.04 2024	15.30	60.0		
7	24042001	16.30	61.0		
0		17.30	62.5	57.7	75.0
9		18.30	61.0	57.7	/5.0
10		19.30	60.2		
11		20.30	57.0		
12		21.30	55.2		
3 13		6.30	52.0		
- 14	25.04.2024	7.30	\$5.0		
E		k. <i>s</i> u	57.0		
16		9.30	56.6		
	M	CHTTIME			
17	24.04.2024	22.30	52.0		
18	24774.6464	23.30	50.2		
19		0.30	ŧ0.5]	
20		1.30	49.2	49.8	70.0
21	25.04.2024	2.30	4 0.0 +	47.0	/00
22	<u></u> >V4-6V64	3.30	47.6		
23		4.30	51.0		
21		5.30	51.6	1	

Day Time: (06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCD Linuts as per Schedule III, Ambiert air quality standards irrespective of Noise (Day & Night Time)

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*** END OF REPORT***

For Chennal Testing Laboratory Pvi Ltd.

Page 1 of 1

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A - Super 19, T.V.K. Industrial Estate, Guindy. Chennai - 600 032(Clebiti Qadu - India

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TEST REPORT

Test Report No & Date	CTL/CH/N·21516C/2024-25 & 03.05.2024 N·21518C/24-25				
Sample Nomber					
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,				
Address	Mondipatti Village, K.Pertyapatti 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	ርፐር/QSP/F-09 & IS 9909				
automent used for Sampling	Sound level Meter S No:554062				

Test Results:

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

SI.NÔ	DATE	TÌMÊ	н	NOISE LEVEL VALUES Leg dB(A)		
			Leg	Average Leq	* Limits Leg dB(A)	
	C	AY TIME				
1		10.30	52.D	· ·		
2.		11.30	SL.D			
3		12.30	53.2			
4		13.30	54.0			
5		14.30	52.0			
6	24.04.2024	15.30	50 5			
7	24.04.2024	16.30	516		1	
8		17.30	53.5	53.2	75.0	
9		1830	55.0	33.2	10.0	
10		19_30	54.2			
11		20.30	57.0			
12		21.30	54.6			
) 1 <u>3</u>		6.30	S0.0-			
Lŧ	25 .04 Z024	7_30	\$2.0			
۱S	23.04 2024	8_30	\$3.5			
16		9.30	\$6.5			
	HA	GHT TIME				
17	24.04.2024	22.30	\$1.0			
18	24.04.2004	23.90	50.5			
19		0.30	49.2			
20	25.04.2024	1.30	47.5	47.9	70.D	
21		2.90	46.6] 1/.7	/0.0	
22		3.90	44.0			
23		4_30	46.2			
24		\$.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.

Page 1 of 8

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A - Super 19, T.V.K. Industrial Estate, Guindy, Chennali - 600 032/diamit.Naturidadia

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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	Mondipani Village, K.Perlyapatti Post, Manapparat Taluk,				
	Trichy District - 621 306 Tamil Nadu.				
Sample Drawn by	Laboratory				
Sample Name	Noise				
Sample Description	ÁMBIENT NÓISE				
Sampling Location	Thiru.Kandasamy House,Pongudipatti(8m Road Junction, Outside of Compound Wall)				
Sample Drawn on	25.04.2024 (p 26.04.2024				
Sampling Plan & Procedure	CTL/QSP/P-89 & IS 9989				
supment 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 Leg (B(A)		
			Leq	Average Leg	" Limits Leg dB(A)
		DAY TIME			
3		10.30	48.5		
2		11 30	47,3		
3		12.30	47.8		
4		13.30	49.5		
<u>ج</u> ۲		14.30	50.1		
6	24.04.2024	15.30	45.0		
7	24.04.2024	16.30	46.6]	75JJ
8		17.30	44.0	45.9	
9		18,30	452] *7.3	
10		19.30	47.0		
11		20.30	42.1		
12		21.30	40.8		
13		6.30	44.0		
14	25.04.2024	7,30	45.6		
15	25.04 2024	8.30	47.0		
16		9_30	48.5		
	N	IGNT TIME			
17	24.04.2024	22.30	40.1		
L8	19/09/10/17	23.30	37.0]	
19		0.30	35.2		
20	[1.30	362	366	70.0
21	25 0 4 2 0 2 4	2.30	345]	19.0
22	60074021	3. 3 0	35.7]	
23	[4.30	36.2]	
24	ļ	5.30	36.1]	

Day Time: (06:00 Hrs to 22:00 Hrs), Night time (22:00 Hrs to 05:00 Hrs)

*TNPCB Limits at per Schedule III ,Ambient air quality standards irrespective of Noise (Day & Night Time).

END OF REPORT

For Chennal Testing Laboratory Pvt Ltd.

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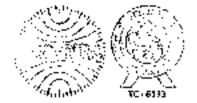
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TEST REPORT

Tesi Report No & Date	CTL/CH/N-22666/2024-25 & 30.05.2024
Sample Number	N-22666/24-25
Name of the Customer	M/S. TAMIE NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K Periyapatti Post, Manapparai Taluk
	Trichy District - 621 306, Tamil Nodu
Sample Drawn by	Laboratory
Sample Name	Nouse
Sample Description	AMB4ENT 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:

6 . MO	DATE	TIME	NOISE LEVEL VALUES Leg dB(A)		
ŞL.NO			Ley	Average Leq	" Limits Leg dB(A)
	τ	AY TIME		· · · · · · · · · · · · · · · · · · ·	
1		10.00	4\$3		
Z		11.00	46.1		
3		12.00	44 .0		
4		13.00	493		ļ.
5		14.00	50.6		
6	21.05.2024	15.00	47.3		75.0
2	21.05.2024	16400	458		
<u>8</u>		17.00	44.6	45.7	
9		18.00	43.R	-0.2	(3.0
10		19:00	46.4		
11		20.00	42.3		
12		21.00	41.5		
13		6.00	45.0		
14	22.05.2024	7. 0 0	46.3		
15	24.035054	8.00	44,8		
16		9.00	47.3		
	N.	GHT TIME			
17	21.05.2024	22.00	446		
10	21.03.0027	23.00	40.B		ļ
:9		0.00	37.0		
20	22 05 2024	1,00	35.2	37.6	70.0
21 _1		2.00	34.6		10.0
22		1.0 0	35.2		
23		4.00	36.0		
24		S.00	37.5	7	

Day Time:(06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TMPOB Limits as per Schedule III , Ambient air quality standards ir respective of Noise (Day & Night Time)

END OF REPORT

For Chemical Testing Laboratory Pvt Ltd

Verified by

ith insed Signatory

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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. TAMEL NADU NEWSPRINT AND PAPERS LIMITED - UNIT IE				
Address	Mondipatti Village, K Periyapatti Pest, Manapparai Taluk,				
	Trichy District - 621 306, Tamil Nadu.				
Sample Drawn by	Laboratory				
Sample Name	Naisc				
Sample Description	AMBIENT NOISE LEVEL MONITORING				
Sampling Location	Factory Canteen Building				
Sample Drawn on	21 05.2024 to 22.05.2024				
Sampling Plan & Procedure	ርግጌ/Q5P/F-89 & 15 9989				
Equipment used for Sampling	Sound level Meter S No:SS4062				

Test Results:

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

SLINQ	DATE		NOISE LEVEL VALUES Leg dB(A)		
		TIME	Leq	Average Leq	* Limits Leg d\$(A)
		DAY TIME	•	•	
L L		10.00	587		
2		11.00	57.7]	
3		12.00	56.1]	
4		13:00	548		
5		14.00	52.1		
•	21.05 2024	15.00	50.5		
7	22/05/2024	16 00	516		
8		17.00	538	547	75.0
9		18.00	554		/3.0
10		19.00	\$81		
L1		20. 00	50 .0		
12		21.00	481		
13		6.00	54.1		
. 14	21.01.2024	7.00	56.B		
15	1LOLIGI4	8.00	57.4		
t6		9,00	60.0	–	
	N	IGHTTIME			
17	21.05.2024	22.00	49.1		
18	21.03.2024	23.00	46.3		
19		0.00	40.8		
20		1.00	41.6	45.1	76.0
21	77 05 2074	2.00	43.7	A .E	1 000
22		3.00	4S.B		
23		4.00	46.0		
24		5.00	46.5	1	L

Day Tame: (06.00 Hrs to 22.00 Hrs), Night time (22.00 lars to 06.00 Hrs)

* TNPEB Limits as per Schedule III , Amblent air quality standards Irrespective of Noise (Day & Night Time).

""END OF REPORT""

For Chennal Testing Laboratory Pvt Ltd.

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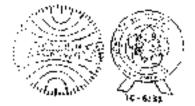
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TEST REPORT

Test Report No & Date	CTL/CK/N·22668/2024-25 & 30.05.2024				
Sample Number	N-22668/24-25				
Name of the Customer	M/S. TANIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,				
Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,				
	Trichy District - 621 306, Tanul Nadu.				
Sample Draws 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 (or 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 Leg dB(A)		
			Leg	Average Log	* Limits Leg dB(A)
	I	DAY TIME			
Ι.		10.00	638		
2		11.00	66 4		
3		12.00	62.7		
4		13.00	609		
\$		14.00	\$8.4		•
6	21.05.2024	15.00	635]	
7	21.05.2024	06.80	627		
R		17:00	604	6 3.1	75.0
φ.		18:00	668		10.0
10		19.00	61.4		
11		20.00	\$75		
12		21.00	\$Ø.3		
L3		6.00	65 8		
14	22.05.2024	7.00	64.7		
15	11.03.001	8.00	67.3]	
16		9,00	68 .4		
	N	GHT TIME			
17	21.05.2024	22.00	55.9		
l <u>8</u>		23.00	S3.8		
Lė		0.00	56.4		
20	22.05 2024	1.00	520	- 55 2	79.0
21		Z.00	51.0	00 8	
?2	22.03 2024	3.00	550		
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 96.00 Hrs)

* TNPCB Limits as per Schedule III , Ambient air quality standards irrespective of Noise (Day & Night Time)

*** END OF REPORT***

For Chennal Testing Laboratory Pvi Ltd

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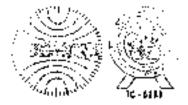
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TEST REPORT

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 IL				
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 MONITOBING				
Sampling Location	110 KVA Sub station(Right Side 10m Away)				
Sample Drawn op	21.05.202440 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	DA1'E	TIME	N	NOISE LEVEL VALUES Log dB(A)	
56.80	DATE		Leq	Average Log	* Limits Log (ID(A)
	1	РАТ ТІМЕ		·	
I		10.00	63.8		
2		11.00	65.1		
3		1200	67 3		
•		13.00	64,9		
5		14.00	621		
6	21.05.2024	15.00	641		
2	21.032024	16.00	598		1
A .		17.00	57.4	640.4	75.0
9		18.00	56.4	\$P\$.4	0.0
10		19.00	54.9		
L		20.00	53.4		
12		21.00	50.8		
13		6.00	\$7.9		
14	22.05.2034	7.00	61.4		
15	22.03.2034	8.00	60.8	7	•
6		9,00	65.9	1	
	N	GHT TIME			
17	21.05.2024	22.00	52.2		I
18	2.052024	23.00	54.D		
19		0.00	50.1		
20		1.00	48 .6	511	70.0
21	22,05,2024	2.00	49.0] 70.0
22	C CAPIN 24914	3.00	50.5		í –
23		4.0U	€9.6		
24		5.00	54.7	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 , Amblein air quality standards irrespective of Noise (Day & Night Time)

' END OF REPORT *

For Chennel Testing Laboratory Pvt Ltd

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TEST REPORT

Test Report No & Date	CTL/CH/N-22672/2024-25 & 30.05.2024 N-22672/24-25 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II.				
Sample Number					
Name of the Customer					
Address	Mondipatti Village, K.Pertyapatti Post. Manappara: Taluk,				
	Trichy District - 621 306, Tamil Nadu.				
Sample Drawn by	Laboratory				
Sample Nome	Noise				
Sample Description	ANDIENT NOISE LEVEL MONITORING				
Sampling Location	Southern Boundary				
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 Mo:554062				

Test Results:

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

SL.NO	DATE	TIME	N	NOISE LEVEL VALUES Leg dB(A)	
-54° lan	UXIE	11006	Leq	Average Leq	* Limits Leg 4B(A)
		DAY TIME			
t		10.00	55 4		
2		11 00	564		
3		12.00	\$7 <i>A</i>		
- 1		13.00	53.0		
5		[4.00	55.6		
6	21.05.2024	LS.00	594		F
7	21.03.2024	16.00	54.6		
8		17.00	58.3	\$9.1	75.0
9		18.00	\$3.5		75.0
10		19:00	50.8		
<u> </u>		20.00	52.1		
12		21.00	49.B	7	
13		6.00	48.5		
14	22.05.2024	7.00	510]	1
15	22.03.2024	8.00	53.8		
16		9.0 0	55.6		
	N	IGHT TIME			
17	21.05 2024	22.00	49.4		
10	21.052024	23.00	46.0		
19		0.00	45.6		
20	22.05.2024	1.60	42.6	438	700
21		2.00	430	190	
22		3.00	40.5	-	
23		4.00	41.0		Ì
24		5.00	42.6		I

Day Tome: (06 00 Hrs to 22.00 Hrs). Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule 41 ,Ambeent air quality standai ds in espective of Noise (Day & Night Time).

END OF REPORT

For Chennas Testing Laboratory Pvt Ltd

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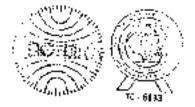
Page 1 of 1

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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 NADU NEWSPRINT AND PAPERS LIMITED - UNIT (I.				
Address	Mondipatti Village, K.Periyapatti Post, Manappara: Taluk,				
	Trichy District - 621 306, Tamii Nadu.				
Sample Orawa by	Laboratory				
Sample Name	Noise				
Sample Description	AMBLENT NOISE LEVEL NONITORING				
Sampling Location	West Entrance Gate(Right side S0m away From the Gate,10m from 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:

Verified by

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

SLNO	DATE	тімв	N	NOISE LEVEL VALUES Log (B(A)	
31.140	DATE	11215	Leg Average Leg	" Limits Leg dB(A)	
		XY TINE			•
i		10.00	58.4		
2		11.00	574		
3		12.00	58.4		F
4		L3.00	603		
5		14.00	62.6		
ń	21.05.2024	15.00	614		
7	21/00/2024	16.00	58.6		
8		17.00	62.1		75.0
9		18.00	\$7.4	- 584	75.0
10		19.00	55.8	7	
li i		20.00	53.8	•	
12		21.00	51.4		
12		b.00	57 (
14	22.05.2404	7.00	59.4	1	P
15	22.05.2024	8.00	61.2	1	
16		9.00	58.5	1	
	- Ni	GHT TIME		-	
17	21 05 2024	22.00	50.8		
18	21.05.2024	23.00	\$2.6	7	
19		0.00	480	7	
20	22.05 2024	1.00	495	1	
21		2.00	45.0	4 8. A	700
22		3,040	4 6.B	1	
23		4.00	₹7.0	1	
24		5.00	50.6	7	

Day Time: (06.00 Hrs to 22.00 Hrs), Night Line (22.00 Hrs to 06.00 Hrs)

* TMPCB Lunks as por Schedule III Anobient all quality standards irre 59.4

END OF REPORT

For Chennal Testing Laboratory Pvt Ltd

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A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 COLIFAMIRANdu - India

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TEST REPORT

CTL/CH/N-22669/2024-25 & 30.05.2024				
N-22669/24-25				
M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II, Mondipath Village, K.Periyapath Post, Manappatai Talok,				
				Trichy District - 621 306, 7amil Nadu
Laboratory				
Natse				
AMBIENT NOISE LEVEL MONITORING				
Back side of Workshop(Near Compound wall)				
21.05.2024 to 22.05.2024				
CTL/QSP/F-89 & IS 9989				
Sound level Meter \$ No:554062				

Test Results:

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

SL-NO	DATE	TIME	N	NOISE LEVEL VALUES Leg dB(/	
acino	LAIL	1 10415	Leg	Average Leg	* Limits Log dB(A)
	I	DAY TIME	•		
1		10.00	514		
2		31.00	\$0.0		
3;		12.00	53.6		
1		13.00	55 2		
5		14.00	\$79		
6	21.05.2024	15.00	543		1
7	20.00000	16.00	54.0		[
Û		17.00		53.1	
9		18.40	\$2.2	33.1	75.0
10		19.00	50.1		
a di		20.00	48.3	7	
12		21.00	47.5	7	
13		ó.00	55.4	7	
14	22.05.2024	7.00	56.8	1	
15	22.05.2024	8.00	52.9	1	ļ.
16		9.00	57.4	1	
	N	GHTTIME			
17	21.05 2024	22.00	46.8		
18	21.03 2014	23.00	42.7		
19		0.00	41.9		
210	22.05.2024	1.00	448		70.0
21		2.00	46.3	463	700
22		3.00	47.0	1	[
23		4.DU	49.2	1	
24		5.00	51.9	1	

Day Time. (06.00 H/s to 22.00 H/s), Night time (22.00 Hrs to 06.00 hrs)

* TNPGB Lamits as per Schedule III , Ambrent air quality standards itrespective of Noise (Bay & Night Time)

END OF REPORT

For Chennel Testing Laboratory Pvt Ltd.

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Page 1 of 5

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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 \$ No.554062			

<u>Test Results:</u>

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

SLNO	DATE	TIME	MURSE LEVEL VALUES Leg dB(A)		B(A)
JLNU	DATE	(Ime	Leg	Average Leg	' Limits Leg dR(A)
		DAY TIME			
1		10.00	47.2		
2		11.00	45.6		
3		12.00	46.0		
+		13.00	42.0		
5		14,00	44.0]	
6	21.05.2024	15.00	43.5]	
7	11251014	16.00	4LB		
9		17 00	42.9	41.9	75.0
9		18.00	40.\$	11.7	144
LQ		19.00	39.0		
11		20.00	37.5		
12		21.00	36.8		
13		6.00	380		
14	22052024	7 00	40.0		
15	20032024	8.00	41.5]	1
16		9.0D	43.6		
	N	IGHT TIME			
17	21.05.2024	22.00	35.2		
19	11.03.1014	23.00	34.0		
19		0.00	34.\$		
20	22.05.2024	100	35.0	35.3	70.0
71		2.00	342	35.3	70.0
22		3.00	35 1]	
2.3		4,00	366]	
24		\$.00	37.8	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. Amhlent air quality standards ir respective of Noise (Day & Night Time)

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Per Chennal Testing Laboratory Pet Ltd

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A - Super 19, T.V.K. Industrial Estate, Gulndy, Chennal - 600 032, Tamil Nedu - India

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TEST REPORT

Tost Roport No & Data	CTL/CII/N-24946/2024-25 & 03.07.2024
Sample Number	N-24946/24-25
Name of the Customer	M/5. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyapatti Post, Manapparat Toluk
	Trichy Disurice - 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
SampNing Plan & Procedure	ርቸL/Q5P/F-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.MO	DATE	TIME		IOISE LEVEL VALUES Log 4	IB(A)	
00170	DRID	11116	Leg.	Average Leq	· Cimits Leg dB[A]	
		DAY TIME				
I		1100	46.6			
2		12:00	45.7]		
з,		13.00	44.8			
4		34.00	47.2	1	4	
5		1500	15.5			
6	24.06.2024	16.00	467	-		
7		17.00	43.6	7		
Ц,		16.00	42.8	"		
9		19.00	41.3	- ++.1	75.0	
10		20.00	42.3	1		
12		21.00	40.4	1		
12		6.00	39.8	1		
13		7.00	42.3	1		
14	25.06.2024	6.00	45.5			
15 ;		9.00	46.3	1	f	
) ó t		10.00	44.6	1		
		INT TIME				
17	24.06.2024	22.00	0.1+		· · · · · · · · · · · · · · · · · · ·	
10	61.40.2024	23.00	39.6	1		
19		0.00	38.7	7 i		
20	25.06.2024 -	1.00	36.5			
21		2.00	35.4	37.5	70.0	
22		3.00	34,2	1		
23		4.00	358]]		
24	r	5.00	37.9	1		

Day Teno: (06:00 Hrs to 22:00 Krs). Night Lime (22:00 Hrs to 06:00 Hrs)

* TNPCB Limits as per Schedule III Architect air quality standards intespective of Noise (Day & Night Time)

END OF REPORT

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For Gennal Testing Laboratory Pvi Ltd.

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Phone : +91-44-2250 4757 | E-mail - chennaitesting@chennaitestinglab.com -www.clilabs.in

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TEST REPORT

Test Report No & Date	CTL/CII/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 IL
Address	Mondipath Village, K Periyapathi Post, Manapparai Taluk,
	Trichy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Noise
Sample Description	AND ENT 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 5 No:554062

Test Results:

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

SL.MO	DATE	TIME	<u> </u>	NOISE LEVEL VALUES Leg dB(A)	
	· · · · · · · · · · · · · · · · · · ·		Leg	Average Leq	* Linvits Leg (B(A)
		DAY TIME			
		11.00	56.6	· · · · · ·	
2		L7,00	57.7	1	
3		1300	\$9.2	-]
+		14.00	60.0		1
5		15 00	68.6	7	
<u>*</u>	24.06.2024	16.00	\$9.2	1	
		12.00	57.3	7	
		1600	56.6		1
*		19.00	555	55.3	75.0
01		20.00	58.9		
11		21.00	59.2		
12		6.00	39.7		
13		7.00	43.6		
14	25.06.2024	8.00	49.2		
15		9.00	53.8		
16		10:00	56.7	1	
	NM	HT TIME		·	
17	24 06.2024	22.00	\$7.7	· · · · · · · · · · · · · · · · · · ·	
1.9		23 00	56.2	1 1	
	[0.00	\$2.7	1	
20	i i	1.00	48.3	1 [
21	25.06.2024	2 00	14.9	47.7	20,0
22		3.00	42.6		
23		4.00	40.7		
24	Here to 22 An Hand Martin	5.00	38.Z		

Day Time: (06:00 Hrs to 22:00 Hrs), Night time (22:00 firs to 06 00 Hrs)

* TNPCB Limits as per Schedule III. Ambient air quality sreadards arrespective of Nouse (Bay & Night Time)

END OF REPORT

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For Chennal Testing Laboratory Pyt Ltd

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A - Super 19, T.V.K. Industrial Estate, Guindy, Channaica00ER/rolantih Naduatingia

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TEST REPORT

Test Report No & Date	CTL/CII/N-24946B/2024-25 & \$3.07.2024				
Sample Number	N-24946B/24-25 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT SL				
Name of the Customer					
Arkiress	Mondipaui Village, K.Periyapaui Post, Manapparal Taluk,				
	Trichy District - 621 306, Yamii Nadu.				
Sample Drawn by	Laboratory	<u> </u>			
Sample Name	Noise				
Sample Description	AMBIENT NOISE LEVEL MONIFORING				
Sampling Location	Near North West Computed Wall				
Sample Drawn on	24.06.2024 to 25 06.2024				
Sampling Plan & Procedure	CT1/QSP/F-89 & 15 9989				
Equipment used for Sampling	Sound level Metor S No-554062				

Test Results:

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

SL.NO	DATE	TIME	N	NOISE LEVEL VALUES Log (B(A)	
			Log	Average Leq	" Limits Leg dB(A)
		DAY TIME			
2		11.00	68.9	T = "	T
\$		12.00	673	-	
3		13.00	65.6		
-		14.00	665	1	
S .		1500	620	-f	
6	24-06-2024	1600	63.1	-]	[
7		1700	62.2	1	
B		18.00	60.3	1	
?		19.00	584	62.8	75.0
10		20.00	57.2]	ĺ
11		21,00	56.3		
12		6.00	58.7	1	
13		7.00	61.1	1 1	
14	25.06.2024	8.00	63,2	1	
15		9.00	65.6	1	
10		10.00	67.2	1 i	
	NK	UT TIME		· · · · · · · · · · · · · · · · · · ·	<u></u>
17	24.06 2024	22.00	549	T	
19	A1/00 A0 67	23.00	53.4	1 1	
19		0.00	52.8	1 1	
30	ĺ	1.00	50.6	1	
21	25.06.2024	2.00	52.7	56.g	70.0
22	23.002.029	3.00	54.4	í í	
23	[400	\$6.7	1 1	
24	r	5.00	\$7.3		

bay Three(06.00 Bra to 22.00 Hrs), Might time (22.60 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III Ambeent air quality standards errespective of Noise (Day & Right Time)

END OF REPORT

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For Chennal Testing Laboratory Pet Ltd

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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 LINITED - UNIT II,	
Address	Mondipatti Village, K.Periyapatti Post, Manapparai Taluk,	
	Trichy Distance - 621 306, Tamil Nadu.	
Sample Drawn by	1.aboratory	
Sample Nanie	Noise	
Sample Description	AMBIENT NOISE LEVEL MONITORING	
Sampling Location	110 KVA Sub station(Right Side 10sr 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	
Teor Dogular.		

Test Results:

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

\$2,000	DATE	TIME	NOUSE LEVEL VALVES Leg 48(A)		
			Leq	Average Log	Limits Log dB(A)
		DAY TIME			<u> </u>
1		00.01	634		
z		12.00	62.5		
3		13.00	59.6		•
4		14.00	58.5		
5		15.00	60.4	- F	
6	24 06 2024	16.00	61.Z	7	
7		17.00	\$9.6	7	
8		18.00	604		[
9		19.00	55 1	57.0	75.0
L0		2000	\$2.6		
11		21.00	50.4		
12		6.40	49.8		
13		7.00	\$1.4	7	
14	25 06.2024	8.00	53.6		
L S		9.00	55.6	1	
16		10.00	58.4	· .	
	MIC	HE TIME		· · · · · ·	
17	24.06.2024	22.00	49.6		·•
LØ	24.00.2024	23.00	47.2	1	
19		0.00	46,6	1	
20		1.00	44.4	1	
2 L	25.06.2024	2.00	43.2	44.6	70.0
22		3.00	42.4	1]	
<u>23</u>		4.00	40.9	1 1	
24	Г	5.00	43.7	1	

Day Time. (06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs).

* TNPCB Limits as put Schedule III. Ambient air quality scondards Prespective of Noise (Day & Night Time)

***END OF REPORT

For Cheonal Testing Laboratory Pet Ltd 4

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CIN 1093000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-20946F/2020-25 & 03.07.2024	
Sample Number	N-24946F/24-25	
Name of the Customer	M/S. TANDI NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,	
Address	Mondipatti Villago, K.Penyapatti Post, Manapparai Taluk,	
	Trichy District - 621 306, Tand Nadu.	
Sample Drawn by	Laboratory	
Sample Name	Noise	
Sample Description	AMBIENT NOISE LEVEL MONITORING	
Sampling Location	Southern Boundary	
Sample Draws on	24.06.2024 to 25.06.2024	
Sampling Plan & Procedure	CTL/QSF/F-89 & IS 9989	
Equipment used for Sampling	Sound level Meter S No:554062	
Tear Berultz		-

<u>Test Results:</u>

The above sample tosted as received, and results are as follows-

SLNO	DATE	TIME	N	NOISE LEVEL VALUES Leg 48(A)	
		10716	Log	Average Log	" Lamits Leg dB(A)
		DAY TIME			
1		11.00	57.8		
2		12.00	562		
3		13.00	55.6	7	
		14.00	54.9	7	
5		15 00	52.2	-	
6	24 06 2074	16.00	507	-	
7		17.00	S1.6	1	
Ĥ		1800	49.4	1	1
9		19.00	47.3	51 .9	75.0
10		20.00	45.5	7	
11		21,00	44.9	7	
12		6.00	46.1		
13		7.00		-	
14	25.06.2024	6.00	49,7 53.7	1	
15		9.00	56.6	1	1
16		10.00	\$8,1	f	
	Neri	THE TIME			• • • • • • • • • • • • • • • • • • • •
17	24.06.2024	22.00	43.6	γ	· · · · · · · · · · · · · · · · · · ·
18	14.002024	23.00	41.3	1.	
19		0.00	40.8	1	
20		1.00	39.6	1	
21	25.06.2024	2.00	47.7	43.2	70.0
22	1100,2027	3.00	43,5	1 1	
2)	Γ	4.00	45.7	1	
24	F	5.00	47.6	1 [

Day Tone (06.00 Hrs to 72.00 Hrs), Night time (22.00 Hrs to 06.00 Hes)

* TNPCB Links as per Schedule III. Ambient air quality standards irrespective of Noise (Day & High Theat)

END OF REPORT

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TEST REPORT

Test Report No & Date	CTL/CN/N-24946D/2024-25 & 03.07.2024
Sample Number	N-24946D/24-25
Name of the Customer	M/5. TANIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Moodipatti ViNage, K. Perlyapatti Post, Manapparai Taluk.
	7rfchy District - 621 306, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Noise
Sample Description	AMBLENT NOISE LEVEL MONITORING
Sampling Location	West Enfrance 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 & 15 9909
Equipment used for Sampling	Sound level Meter S No:S54062

Test Results:

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

SLINO	DATE	TINE	1	IOISE LEVEL VALUES Log d	VEL VALUES Leg dB(A)	
	LAIL		Leg	Average Leg	* Limits Leg dB(A)	
		DAY TIME		•		
1		11.00	60.5		· · · · · · · · · · · · · · · · · · ·	
Z		12.00	545.4			
3		23.00	596			
1		14 00	57.4	7		
5		15.00	56.2	1		
6	2406.2024	16.00	60.1			
,		17.00	548.2			
8		19.00	56.2			
9		19.00	54.1	56.6	75.0	
10		20.00	59.7			
11		21.00	50.9			
12		6,00	49.4			
(3		7.00	53.5			
14	25.06.2024	8.00	57£	1		
15	j	9.00	59.3	1		
16		LO.00	60.6	1		
	M	HT TIME		·	· · · · · · · · · · · · · · · · · · ·	
17	24.06.2024	22.00	49.2		<u> </u>	
18	14.00.20724	23.00	48.8	7		
19 j		0.00	47.2			
20	ſ	2.00	45.2	1		
21	25.06.2024	2.60	44.4	47.0	70.0	
23	40.00/4024	3.00	45.9]		
23	ſ	4.00	40.0	1		
24	ſ	5.00	49,3	1		

Day Time (06:00 Hrs to 22:00 Hrs). Night time (22:00 Hrs to 06:00 Hrs)

TNPCB Limits as par Schedule III , Amblent air quality standards (me 59, 4)

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For Clemnal Testing Laboratory Pvt Ltd.

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TEST REPORT

Test Report No & Date	CTL/EM/N-24946C/2024-25 & 03.07.2024	
Sample Nomber	N-24946C/24-25	
Name of the Customer	N/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II.	
Address	Mondipatti Village, K.Pernyapatti Post, Manapparai Tajuk,	
	Trichy District - 621 306, Tamit Nadu.	
Sample Drawn by	Caboratory	
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-89 & IS 9909	
Equipment used for Sampling	Sound lovel Meter S No:SS4062	
The shift and has		

Test Results:

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

SLINO	DATE	тіме	μ	NOISE LEVEL VALUES Leg 4B(A)		
SEALO			Léq	Average Log	Limits Leg dB(A)	
		PAY TIME				
1		11,00	52.6		·	
Z		12.00	\$1.7	-		
3		13.00	50.8			
4		14.00	51.1			
5		15.00	49.7			
6	24/06/2024	26.00	40.0	7		
7		17.00	17.2			
8		19.00	46 6	40.6		
4		19.00	45.2	- 4 8 ,5	75.0	
10		20.00	44.4			
11		2100	43.2			
12		6,00	44.8			
13	i	7.00	45.9	1	f	
14	25,06,2024	8.00	48.2	7		
15		9.00	52.1	1		
16		10.00	53.4	1		
	NI	CHT TAGE		······································	· · · · · ·	
17	24.06.2024	22.00	42,2			
18	67.00.2024	23.00	40.5	1		
14		0.00	39.5			
20		00.1	J-8.3	1		
21	25.06.2024	2.00	37.9	39.7	70.0	
22	t2.00.1014	3.00	38.8	1 i		
23	ſ	1.00	39.4	1		
24	1	5.00	41.3	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. Amblent air quality standards irrespective of Noise (Day & Night Time)

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For Chennel Testing Laboratory Pvt Ltd.

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TEST REPORT

Test Report No & Date	CTL/CH/N-24946G/2024-25 & 03.07.2024
Sample Namber	N-249466/24-25
Name of the Customer	M/S. TAMIL MADU NEWSPRINT AND PAPERS LIMITED - UNIT II.
Address	Mondepatti Village, K.Periyapatti Post, Manappora Taluk,
	Trichy District - 621 306, Tamii Nadu.
Sample Drawn by	Laboratory
Sample Name	Noise
Sample Description	AMBIENT NOISE LEVEL MONITORING
Sampling Location	Thiru.Kandasamy House,Pongudipatti(6m Road Junction, Ontside of Compound Wall)
Sample Draws on	24.06.2024 to 25.06.2024
Sampling Plan & Procedure	ርፐር/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 Lag	AB(A)	
				Average Leg	· Limits Legals(A)
		DAY ΤΙΜΕ			
l		11.00	48.8		T
2		12.00	47 2	7	
,		13.00	46.6		
4		14.00	45.5		1
5		15,00	419		
6	2406.2074	16.00	43.8	7	[
7		17.00	42.2	-	
9		16.00	41.9	7	
9		19.00	40.5	44.0	75.0
10		20.00	39.6	7	•
31		21.00	30.1	-	
12		6,00	41.3	-	1
13	ſ	7/90	44.6	1	
14	25.06-2024	8.00	46.4	1	
15	1	9.00	47.2	1	
16		10.00	45,9	1]
• • • •	NA	GHT TINE			
17	74.06.7074	22,00	377		r
18	74.06.2024	23.00	36.9	1	
19		0,00	35.5	1	
ZD (F	1.00	343	1	
21	25 06.2024	2.00	33.9	36.3	70.0
22		3.00	35.2	1	
23	F	4.00	374		
24	F	5.00	39,5	1	

Day Time: (06.00 Hits to 22.00 Hts), Night time (22.00 Hits to 06.00 Hits)

* TNPCB Limits as per Schedule FIL Ambient air quality standards irrespective of holse (Usy & high) (ime)

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A - Super 19, 1.V.K. Industrial Estate, Guindy, Chennal - 600 (32, Hint Nadu - India)

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TEST REPORT

СТL/СН/N-26968/2024-25 & 07.08.2024
N-26968/24-23
M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Mondipatti Village, K.Periyapatti Post, Manapparai Taluk.
Trichy District · 621 306. Tamil Nadu.
Laboratory
Norse
AMBIENT NOISE LEVEL MONITORING
Guest House
29.07.2024 to 30.07.2024
CTL/QSP/F-89 & IS 9989
Sound Jevel Meter S No:SS4062
•

Terr Results:

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

SLNO	DATE	TIME	NOISE LEVEL VALUES Lege Leg Average Leg	₩(A)	
	DATE	21916		Average Leg	• Limits Leq dB(A)
•	[AY TIME			
1		9.30	8.94		
2		10,30	47.1		1
7		11.30	46.3		
4		12.30	45.8		
5		13.30	42.9		
ó		14.30	40.8		
7	29 07.2024	15.30	44.4		
8		16.30	45.2	43.6	75,0
ĥ		17.30	42.9	12.0	14,0
10		18:30	41.4		
11		19.30	10.2		
12		20.30	30.6		
13		21.30	39.5		
и		6.30	42.3		
15	30 07 2024	7.30	46.5		
16		6.30	48 3		
	N	GAT TIME			
17	29.07.2024	22.30	J 6 1		
18	43,07,4044	23.30	392		
19		0.30	37.6		
20	20.03.2024	1.30	36.0	38.1	70.0
21		2.30	37.0	30.1	
22	30.07.2024	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 families as per Schedule III , Ambient air quality standards ir respective of Noise (Day & Night Time)

*** END OF REPORT***

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For Chennal Testing Laboratory Pvt Ltd

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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 IL
Address	Mondipati) Village, K.Penyapatti Post, Manapparai Taluk,
	Trichy District - 621 306, Tamil Nadu
Sample Brawn 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/Q3P/F-89 & 15 9987
Equipment used for Sampling	Sound level Meter 5 No:554062

Test Results:

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

			NOISE LEVEL VALUES Leg d Leg Average Leg	IB(A)	
SL.NO	DATE	TIME		Average Leg	* Limits Leg dB(A)
	(MY TIME			
i		9.30	6L.4		
2		L0.30	57,3		
ł		11.30	59.8		
4		L2.30	56.8		
5		L3.30	60.5		
6		14.30	62.4		
7	29.07.2024	15.30	\$9.4		
8		16.30	\$7.5	581	75.0
9		17.30	\$4.8	301	730
10		19.30	56.3		
. 11		19.30	52.9		
12		20.30	50.9	3	
13		21.30	53.4		
14		6.30	63.\$		
15	30.07.2024	7.30	59.8		
16		0.30	62.4		
	N	GIIT TIME			
17	29.07.2024	22.30	51.\$		
LB	29.07.2074	23.30	52.7		
19		0.34	50.1]	
20		1.30	49.J	\$3.5	70.0
ZL		230	52.4	3 0.2	10.0
22	30.07.2024	3,30	54.6		
23		4.30	56.2		
24		5.30	60.0	1	

Day Time: (06.00 Hrs to 22.00 Hrs), Night type (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule (I) Ambient air quality standards irrespective of Noise (Day & Night Tane)

***END OF REPORT

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For Chennal Testing Laboratory Prt Ltd

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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 IL
Address	Mondipatti 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	Near North West Compound Wall
Sample Drawn on	29.07.2024 to 30 07.2024
Sampling Plan & Procedure	CTF/QSP/F-89 & IS 9989
Equipment used for Sompling	Sound level Meter 5 No:554062

Test desults

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

a	D.1-70	трие	NOISE LEVEL VALUES Leg dB(A) Leg Average Ceg * Linei	1B(A)	
SLNO	DATE			* Linuits Log dB(A)	
		DAYTIME			•
L		9.30	70.1		
2		LD.30	68. 6	j	
3		11.30	66.9		
4		12.30	69.4		
5		13.30	65 <u>8</u>		
6		14.30	67 2]
7	29.07.2024	15.30	648		
9		16.30	68.0	66.0	75.0
9		17 90	65.9	000	70.00
10		18 30	66,4		
11		19 30	62.4		
12		20.30	60.3		
13		21 . <u>30</u>	57.4		
14		6.30	67.1		
15	30.07.2024	7 90	69.4		
16		8 30	66.2		
	IK	GHT TIME			
17	29.07.2024	22.30	\$ 8. 1		
81	25.07 1024	23.30	\$5 3		
19	30 <i>.0</i> 7.2 0 24	0.30	\$7.0		
20		1.30	581	588	700
21		2.30	\$6.3	300	
22	30.0772.024	3.30	\$9.4		
23		4.30	62.4		
24		5.3 0	64.0		

Day Time (06.00 Hzs to 22.00 Hzs). Night time (22.00 Hzs to 06.00 Hzs).

* TNPCB tamits as per Schedule III ,Amheent alr quality standards irrespective of Noise (Day & Night Time)

****END OF REPORT***

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TEST REPORT

Tesi 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 5 No:554062
A set A set data	

Test Results:

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

SLNO		7145	NOESE LEVEL VALUES Leg o	HB(A)	
aLRU	DAVE	ТІМБ	Leq	Leg Average Leg	* Limits Leg dB(A)
		DAV TIME			
1		9.30	66.2		
2		10.30	65.9		
1		11.30	673		
4		17.30	ñ4 8		1
5		13.30	61.9		
6		14_30	6 0 .6		
7	2907.2024	15.30	62.1		
8		16.30	58.6	61.4	75.0
9		17.30	57.6	01.4	73.0
10		18.30	56.B		
11		19.30	55.9	-	
12		20.30	57.1		
13		21.30	55,4		
14		6.30	60 <u>.3</u>		
	30.07 2024	7.30	641		
16		8.30	675		
	N	IGHT THME			
17	29.07.2024	22.30	54.8		
18	27.07 1024	23.30	53.9		
19		0.30	50.5		
20	30.07.2024	1.30	50.8	531	746.0
21		2.30	49.6		100
22	30007.2014	9.30	52.3		
23		4 90	55.4		
24		530	\$7.2	7	

Day Time (06.00 Hrs to 22.00 Hrs). Night time (22.00 Hrs to 06.00 Hrs)

* TRIPCB Lamits as per Schedule III .Amblent air quality standards irrespective of Noise (Day & Night Time)

END OF REPORT

For Chennal Testing Laboratory Pvi Ltd

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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	Sonthern 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 Mater S No:554062
Test Results	

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

SLNO	DATE	TIME	NÓI: Leg	OISE LEVEL VALUES Leg i	B(A)
		1		Average Log	* Limits Leg dB(A)
		DAY TIME			•
L	-	9.30	55.2		
2		10.30	<u>\$</u> 3.₿		
3		11.30	54.7		1
4		12.30	56.3	-	
5		13.30	52.1		
6		14 30	50.8		
7	29.07.2024	15.30	49.6		
6		16.30	48.1		. .
9		17.30	47.3	50.5	75.0
10		18.30	45.6	7	!
11		19.30	49_2	7	
12		20-30	47.2		
13		26.30	4S.0	1	1
14		6.30	48.9		
15	30.07.2924	7.30	50.2	7	
16		8.30	53.2	7	
	NI	GHT TIME			
17	29.07.2024	22.30	44.3		· · · · · · · · · · · · · · · · · · ·
18	19.0712024	23-30	42.7	1	
19	30 07.2024	0.30	45.2]	1
20		1.30	46.3		
27		2.30	42.9	44.9	70.0
22		3.30	44.3]	
23		4.30	45.8]	
24		5.30	47.3	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 Chennal Testing Laboratory Pvt Lof.

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TEST REPORT

CTL/CH/N-26972/2024-25 & 07.08.2024		
N-26972/24-25		
M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,		
Mondipatu Village, K.Periyapatti Post, Manapparai Taluk,		
Trichy District - 621 306, Tamil Nadu.		
Laboratory		
Noise		
AMBIENT NOISE LEVEL MONITORING		
West Entrance Gate(Right side 50m away From the Gate.10m (rom Compound wall)		
29.07.2024 to 30.07.2024		
CTL/QSP/F-89 & IS 9989		
Sound Jevel Mater S No:554062		

<u>Test Results:</u>

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

SLNG	DATE	TIMP	NOISE LEVEL VALUES Leg dit(A)		
			Log	Average Leq	" Limits Leg dB(A)
		DAY TIME			
1		9.30	62. 4	56.8	
2		10.30	63.5		
3		11.30	59.4		
4		12,30	57.2		
5		13.30	60.3		
6	29.07.2024	14.30	62.5		
7		15.30	54,8		
8		16.30	\$6.3		
9		17.30	\$2.9	300	750
10		18 30	50 8		
11		19.30	\$9.5		
12		20.90	50.7		
13		21.30	51.4		
14		630	57.1		
15 ;	30.07.2024	7.30	56.9		
LĢ		8.30	\$9.3		
	N	GHT TIME		•	
17	29.07.2024	22.30	48.9		
18	29.07.2024	23.30	52.2	50 S	
19	30.07.2024	0.30	47.6		
20		1.30	46.5		70.0
21		2.30	48.3		70.0
Z2 .		3.30	\$L.4		
Z3		4.30	53.5]	
24		530	S5.8	7 I	

Day Time (06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Linuits as per Schedule III "Ambient air quality standards irre 59.4

***END OF REPORT

For Gennel Testing Laboratory Pvt Ltd

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A - Super 19, T.V.K. Industrial Estate, Guindy, Chenness 606 (20) Treest Machine India

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TEST REPORT

Test Report No & Date	CTL/CH/N-26971/2024-25 & 07.08.2024		
Sample Number	N-26971/24-25 M/S. TAMIL NADŲ NEWSPRINT AND PAPERS LIMITED - ŲNIT II,		
Name of the Customer			
Address	Mondipatti 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	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 5 No:554062		
Test Results:			

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

SLNO	DATE	TIME	NORSE LEVEL VALUES Leg dB(A)		
			Leq	Average Leg	* Limits Log dB(A)
		DAY TIME		•	
1		9.30	53.4	49.6	75.0
2		10.30	51.0		
3		11.30	50.5		
4		12.30	5 2.3		
\$		13.30	50.1		
6	29.07.2024	14.30	48.6		
,		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	\$0.5		
13		21.30	468		
14		6.30	458		
15	30 07 2074	7,30	47.5		
16		8.30	51.4		
	M	GHT TIME		-	-
12	20.07.2024	22.30	42.3		
18	29 07.2024	23.30	45.0		70.0
19	30.07.2024	0.30	43.8		
20		1.30	40.2		
21		2.30	3 9.8		70.0
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 mespective of Noise (Day & Night Time).

END OF REPORT

For Chennal Testing Laboratory Pvt Lut.

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TEST REPORT

Test Report No & Date	CTL/CH/N-26975/2024-25 & 07.08.2024		
Sample Number	N-26975/24-25 M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT JI,		
Name of the Customer			
Address	Mondipatu Village, K. Periyapatti Post, Manapparal Talvik.		
	Trichy District - 621 306, Tamil Nadu.		
Sample Drawn by	Laboratory		
Sample Name	Noise		
Sample Description	AM BIENT 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 5 No:554062		
Terri Denden			

<u>Test Results</u>

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

	DATE	Timade -	NOISE LEVEL VALUES Leq 4B(A)		
\$1.NO			Løg	Average Leg	" Limits Log dB(A)
		DAYTIME			
3		9.30	485	43.7	
2		10.30	47.9		
		11.30	46.1		
4		1Z.30	46.8		
5 ;		13.30	45.7		
6	29.07.302+	<u>.14-30</u>	43.7		
7		1\$_30	44.2		
â		16.30	45.6		75.0
9		17 30	43.0		1.1.0
10		18-30	41.6		
11		19.30	42.0		
12		20.30	385		
13		21.30	37.4		
14		الگ ا	39.5		
15	30.07.2024	7.30	42 4		
1 6		8 30	45.5		
	H	cht time			
17	29.07.2024	22.30	39.3	0.07 	
19	29/07/2024	23.30	38.0		
19	30,07 2024	0.30	36.6		
20		130	352		740.0
21		2.34	34.9		
22		3.341			
23		4,30	36.3		
24		5.340	37.2		

Day Time (06.00 Hrs to 22.00 Hrs), Night Time (22.00 Hrs to 06.00 Hrs)

* TWPCB Lunits as per Schedule III .Ambient air quality standards irrespective of Noise (Day & Night Time)

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A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 092, Tablit Nodu - India

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-20119/2024-25 & 02 09.2024
Sample Number	N-20[19/24-25
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 Madu.
Sample Drawn by	Laboratory
Sample Name	Noise
Sample Description	AN BIENT NOISE LEVEL MONITORING
Sampling Location	Guest House
Sample Drawn on	21.08.2024 to 22.08.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 9989
Equipment used for Sampling	Sound lovel Meter S No:554062

Test Results:

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

SL.NO	DATE	ŢMĒ	n l	NOISE LEVEL VALUES LAG dB(A)		
	DATE	, jans	Leq	Average Leq + Limits	* Lineits Leg dB(A)	
	C	NAY TIME			•	
<u> </u>		1100	457			
2		1200	SO 1			
3		13.00	468			
•		14.00	44.3			
S		15.00	523]		
6	21.08.2024	16.00	54 S			
7		17.00	49.7			
θ		18.00	\$2.8	491	75.0	
9		19.00	50.5	4 71	/5.0	
10		20.00	52.2			
11 1		21.00	463			
12		6.00	467			
13		7.00	47.3		1	
14	22.08.2024	B.00	48.4]		
15	i	9.00	49.5			
16		10.00	48.7			
	N(GHT TIME				
17 -	21.08.2024	22.00	44.5			
18	21.042024	23.00	43.7			
19		0.00	40.2			
20		L.00	38.7	40.6	70.0	
21	22.08.2024	2.00	36.0	40.0	/0.0	
32		3.00	37.9			
23		4.00	39.6			
24		5.00	43.5	7		

Day Tiove: (06.00 Hrs to 22.00 Hrs). Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule III. Anibient air quality standards irrespective of Noise (Day & Night Time).

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A - Super 19, T.V.K. Industrial Estate, Guindy, Chennap, 600 632, 13mil Nadu - India

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-23119A/2024-25 & 02.09.2024				
Sample Number	N-28119A/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 Insurict - 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	21.08.3024 to 22.08.2034				
Sampling Plan & Procedure	CTL/QSP/#-87-& IS 9989				
Equipment used for Sampling	Sound level Meter S No:554062				

Test Results:

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

a **	DATE		NOISE LEVEL VALUES Leg dB(A)		
ST'NO	DATE	ТІМЕ	Leg Average Leg	* Linkirs Leg 48(A)	
		ау тіме			
1		11.00 .	61. 6		
2		12.00	62.5		
3		13.00	59.8		
4		14.00	56.+		
5		15.00	0,7ئ		
6	21.08.2024	16.00	58.6		
7		17.00	63.7		
0		19.00	64.5	60.9	75.0
9		1900	61.8	00.9	75.0
10		20:00	679	7	
11		21.00	564	7	
12	"	6.00	54.8		
13		7,00	567	7	
14	22.08.2024	8.00	63.5	7	
15		900	65.2	7	
16		10.00	61.3	7	
	. NI	CHIT TIME			
17	21.09.2024	22.00	54,7		
18	21.09.2024	2300	\$2.1		
19		0.00	50.4		
20	22.08 2024	1.00	46.2	S1.I	70.0
21		2.00	47 5		10.0
22		300	497		
23		4.00	523	7	1
24		5.00	55.4	7	

Day Timo: (06.00 Hrs to 22.00 Hrs). Night time (22.00 Hrs to 06 00 Hrs)

* TNPCB Limits as per Schedule III Ambient on quality standards in espective of No.se (Day & Night Time)

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For Chennal Testing Laboratory Pvt Ltd

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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. TAMIE NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,				
Address	Mondipatti Village, K.Periyapatti Post, Manappara, Taluk.				
	Trichy District - 621 306, Tamti 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/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

	5.4 7 5		N	OISE LEVEL VALUES Log o	iB(A)
SLNO	DATE	TIME	Leg.	Амегаде Leq	q *Limits Leg dB(A)
·. +		AYTIME			
1		11.00	57.5		
2		12.00	62.3		
Э		1300	64.3		
4		1400	58.7		
5		15.00	59.3		
6	21.08.2024	16.00	54.4		
7		17.00	55 3		
6		18.00	58.7	\$7.1	75.0
9		19.00	60.1		
10		20 00	55.5		
11		21 00	\$4.7		
12		6.00	49.5		
13		7.00	53.5		
14	22.08.2024	8.00	56.4		
15		9.00	57.3]	
16		10.00	55.5		i
	NI	GHT TIME			
17	24 40 2024	2200	50.9		
18	21.69.2024	23.00	53.3		
19		0.00	44,7		
20		1.00	42.5	46.5	70.0
21	22.00.2024	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

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CIN 1093000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-28119E/2024-25 & 02.09.2024			
Sample Number	N-281198/24-25			
Name of the Customer M/S. TANUL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II.				
Address	Mondepate Village, K.Periyapatti Post, Manappara Taluk,			
	Trichy District - 621 306, Tamij 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 & I\$ 9989			
Equipment used for Sampling	Sound level Meter S No: 554062			
Test Results:				

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

ŚL.NO	DATE	ТІМЕ	ĸ	IOISE LEVEL VALUES Leg d	IO(A)
	PAIG		Løq	Average Leg	* Limits Leg dB(A)
	·	AY TINE			
1 .		11.00	63.5		
2		12.00	60. 4	7	1
3		1300	61.2		
4		1400	59.7		
5		15:00	56.5		1
ø	21.08.2024	16.00	53_3		
7		17.00	52.7	7	
8		18.00	58.4		l
9		19/00	62.1	58.3	7\$.0
10		20 00	60.3	7	
11		21.00	55.7	-1	
12		6.00	53.5	7	
13		7.00	58.4	7	
14	22.08.2024	8.00	60.1	7	
15		9.00	59.3	7	ſ
16		10.00	57.4	7	
	NIC	CHT TIME			
17	21.08.2024	22.00	55.5		
18	21.04.2024	23.00	524		
19		0.00	49.7		Į
20	[1.00	45.6		
21	22.08 2024	2.00	43.2	40.8	70.0
22	22.00 2024	3.00	45.1	1	
23		4.00	47.8	1	
24	1	\$.00	513	7	

Day Times(06.00 Hrs to 22.00 Hrs). Night time (22.00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule JII. Ambient air quality standards (rrespective of Noise (Day & Night Time)

END OF REPORT

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For Chennal Testing Laboratory Pyt Ltd

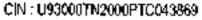
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TEST REPORT

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 IL				
Addre96	Mondipatti Village, K-Periyapatti Post, Manapparat 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	CT1_/Q\$P/F-89 & 15 9989				
Equipment used for Sampling	Sound level Mater 5 No:554062				
Test Results:					

The above comple tested as movined, and results are as follows:

SLNO	DATE	тіме	NOISE LEVEL VALUES Log (B(A)		
		TIMG	Leq	Average Leq	* Limits Leg dB(A)
		MYTIME			
1		11.00	58.7	· · · · · · · · · · · · · · · · · · ·	
2		12.00	56.5		
3		13.00	54 .3		
•		14.00	53.7		
5		15.00	50.2		
6	21.08.2024	16:00	55.2		
7		17.00	\$7.6		
8		18.00	\$83	55.0	
9		19.00	50.5		75.0
10		20.00	53.3	7	
11		21.00	(8)	7	
12		6.00	557	7	
13		7,00	56.4	7	
14	22.06.2024	8.00	\$8.7	-	
15		9.00	57.4	7	
l6		10.00	56.1	1	1
	Nit	ант тімб			b .
17	21.06 2024	22.00	49.7]
18		23.00	46.2		
19		0.00	44.1]	
20	[1.00	41.6	46.3	
21	22.09 2024	2.00	43.5		70.0
22		3.00	46.2	1	
23		4 00	4B.7	7	
24		\$.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

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A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 037 Jamil Nagu - India.

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For Chetinal Testing Laboratory Pvt Ltd.

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CIN 1093000TN2000PTC043869

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. TAMIE NADU NEWSPRINT AND PAPERS LIMITED - UNIT IC					
Address	Mondipatti Village, K.Perlyapatti Post, Manapparai Taluk,					
	Trichy District 621 306, Tamil Nadu.					
Sample Drawn by	Laboratory					
Sample Name	Noise					
Sample Description	AMBIENT NOISE LEVEL MONITORING					
Sampling Locadon	West Entrance Gate(Right side 50m away From the Gate, 10m from Compound wall)					
Sample Drawn on	21.00.2024 to 22.08.2024					
Sampling Plan & Procedure	CUT\G26\E-88 @ I2 888A					
Equipment used for Sampling	Sound level Meter S No: 554062					

Test Results:

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

6 1 1 0	DATE	THAT	NOISE LEVEL VALUES Leg dB(A)		
SL.NO	DATE	а тіме -	Leq	Average Leg	* Limits Leg dB(A)
	Σ	АУТІМЕ			
1		1100	62.3		
2		12 00	58.7		
3		1300	56.5		
+		14 00	54.7		
5.		15400	50.4		
6	21.08.2024	16.00	4 8.5		
7		17.00	49.4		75.0
н		1900	51.5	54.4	
9		19.00	54.6	34.4	
10		20.00	53.7		
11		21.00	55.5		
12		6.00	44.4	1	
13		2.00	53.5		
14	22.08.2024	8.00	55.6		
15		9.00	57.5		
16		10.00	58.1		
	Ni	GHT TIME		•	•
17	21.08.2024	22.00	49.4		
18	21306.2014	23.00	48.3		
19		0.00	44.5		1
20		1.00	43.1	44.7	70.0
21	22.02.24.24	Zintz	40.2	44./	70.0
32	77 OR 7074	3.00	42.2		
Z3		4.00	44.5		
- 24		5.00	45.7		

Day Tynes(06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 thrs)

* TNPCB Limits as per Schedule III. Ambient air quality standards irre 59.4

END OF REPORT

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For Chennal Testing Laboratory Pvt Ltd

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-28J19C/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	Nulse
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 \$ No:554062

Test Results:

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

SL.NO	DATE			OISE LEVEL VALUES Log O	IB(A)
		DATE TIME	Ley	AverageLcq	Limits Leg dil(A)
1	D	AYTIME			
1		11.00	60.5		
2		12.00	62.3		
3		13.00	56.5		
4		14.00	57.4		
5		15.00	58 5		
6	21 08:2024	16,00	6:4		
7		17.00	63.]		
8		18.00	64.5	59.6	75.0
9		19.00	6].7		
10		20.00	58.4		
11		21.00	56.1		
12		6.00	5:.4		
13		7.00	55.5	_	
L4	22.06.2024	8.00	57.5		
15		9.00	62.3		
L6 -		10.00	65.5		
	NI	GHTTTIME			
17	21.06.2024	22.00	55.7		
L8	21.05.2024	23.00	57.7		
19		0.00	49,4		
20		100	47.5	49.2	70.0
21	22.06.2024	2.00	42.0		
22		3 00	45.5		
23		9.00	47.4		
24		500	48.5		

Day Time: (06 00 Hrs to 22 00 Hrs), Right time (22 00 Hrs to 06.00 Hrs)

* TNPCB Limits as per Schedule (III Ambient air quality standards in respective of Noise (169) & Night Third)

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For Chengai Testing Laboratory Pvt Ltd.

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-28119G/2024-25 & 02:09:2024
Sample Number	N-28119G/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K Perlyapatti Post, Manapparai Talak
	Trichy District - 621 306, Tamti Nadu.
Sample Drawn by	Laboratory
Sample Name	Noise
Sample Description	AMBIENT NOISE LEVEL MONITORING
Sampling Location	Thire.Kandasamy House,Pongedipate(8an Road Junction, Outside of Compound Wall)
Sample Drawn on	21.08.2024 to 22.08.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & 15 9989
Equipment used for Sampling	Sound level Meter S No:554062

Test Results:

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

			NOISE LEVEL VALUES Leg		dB(A)	
SL.NO	DATE	DATE TIME	Leq	Average Log	* Limits fey dB(A)	
		DAY TIME				
L		11.00	46.5			
2		12.00	52.0			
3		13.00	53.4			
4		14.00	48.7			
5		15.00	54.2			
6	21.08.2024	16.00	51.9			
7		17.00	50.6			
B		18.00	49.5	49.7	75.0	
. 9		14.00	52.7	12.7		
10		20.00	51.3			
11		21.00	48.5	-		
1Z		600	+5.2			
13		7.00	44.3			
14	22.08.2024	8.00	46.9			
15	ľ	900	48.6			
16		10.00	50.1	·		
	NI	GITTIME				
17	14 09 1024	22.00	45.7			
18	21.09.2024	23 00	(1.3			
12		0.00	36.9			
20	22.0B.2024	1.00	35.8	39.3	70.0	
21		2.00	36.4		19.9	
22		300	37.2			
23		4.00	39.8			
24		5.00	+1.2	7		

Day Time: (06 00 Hrs to 22 00 lins), Night time (22.00 Hrs to 06 00 Hrs)

* TNPCB Limits as per Schedule III, Amblent air quality standards (responsive of Noise, (Day & Night Time)

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For Clement Testing Laboratory Pvt Ltd.

Page 1 of 1

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Head - Environment Division (CHEMICAL)

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TEST REPORT

Test Report No & Date	CTL/CH/N-29785/2024-25 & 03.10.2024	
Sample Nomber	N-29785/24-25	
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT IL	
Address	Mondiparti 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	Guest House	
Sample Drawn on	20.09.2024 to 21.09 2024	
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 99B9	
Equipment used for Sampling	Spund level Meter S No:554062	

Test Besalts:

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

DISCIPLINE : CHEMICAL

. ATMOSPHERIC POLLUTION GRÓUP

SLNO	ØATE		N	IOISE LEVEL VALUES Log d	IB(A)
		OATE TIME	Leg	Average Leq	* Lipsots Log dB(A)
	Ď	AY TIME			
l'		9.00	47.2		
2		10.00	34. 6		
3		11.00	49.2		
4		12.00	50.6		
5		L3.00	48.6		
6		16.00	53.2		
7	20.09.2024	15.00	55.6		
8		16.00	49.6	47.6	75.0
4		17.00	47.6		
10		18.00	46 .2		
1		19.00	45.9		
12		20.00	47.3		
13		21.00	40.5	7	
14		6.00	42.6		
15	21.09.2024	7.00	46.3		
16		8.00	45.8		
	NI	GHT TIME			
17	20.00.2024	22.00	4 2.7		
18	20.09.2024	23.00	40.2		
19		0.00	38.5		
žÓ		1.00	37.2	39.2	70.0
21	21 09.2024	2.00	36.5	374	10.0
22		3.00	37.9		
23		4.00	39.5		
24		5.00	•1.2		1

Day Time: (06.00 Hrs to 22.00 Hcs), Night time (22.00 Hrs to 06.00 Hrs)

TNPCB Limits as per Schedule () ,Ambient air quality standards intespective of Noise (Day & Night Time).

END OF REPORT

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For Chennal Testing Laboratory Pvt Ltd

A - Super 19, T.V.K. Industrial Estate, Guindy, Channal - Coverage and Division - India (CHEMP.AL)

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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	N/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipata Village, K.Perlyapatti 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-89 & 15 9989
Equipment used for Sampling	Sound level Meter S No:554062

Test Results:

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

: ATMOSPHERIC POLLIPTION GROUP

			NOISE LEVEL VALUES Lengt	4B(A)	
SL.NO	DATE	DATE TIME	Leq	Average Leg	* Limits Leg dB(A)
	Ţ	AY TIME			
l		10.00	60.8		
2		21.00	57.2		
3		12.00	58.7		
4	1	13.00	55.6		
S	1	14.00	56.8		1
6	19 09 2024	15.00	58.9	7	1
7	19092014	16.00	63.5	7	
6	7	17,00	62.7	- 59.3	75.0
У	1	18.00	60.9	5 7 ,3	75.0
10	7	19.00	57.6		
11	7	20.00	59.5		
12		21.00	56.5		
13		600	58.1		
14	20.09.2024	7.00	55.7		
15	20.09.2024	8.00	64.2		
16	7	9.00	¢1.9		
	M	GHTTIME			
17	19.09.2024	22.00	52.8	_	
18	17.07.2024	23.00	54.1]	
19		0.00	47.2		[
20]	100	46.3	50.7	70.0
21	20.09.2024	200	48.3		70.0
22		300	50.6		
23	7	400	\$1.7		
24	7	5.00	54.8		4

Day Time:(06.00 Hrs to 22.00 Hrs), Night time (22.00 Hrs to 06.00 Hrs)

TNPCR Limits as per Schedule III. Amhiem air quality standards irrespective of Noise (Day & Night Time).

***END OF REPORT

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Page It of I

For Chennel Testing Laboratory Pvt Ltd.

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DISCIPLINE CHEMICAL





CIN: U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-Z9787/2024-25 & 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, Manapparat 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	ርፐL/QSP/F-89 & IS 9989				
Equipment used for Sampling	Sound level Meter S No:SS4062				

Test Kesults:

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

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SLND	A . B	5 11/5	N	IQISE LEVEL VALUES Leg (IB(A)
	DATE	DATE TIME	Leg	Average Leg	* Limits Leg (IB(A)
		AYTIME	- ·		
, I		10.00	S6.3		
2	1	11.00	595		
3]	12.00	616		
4]	13.00	\$7.5		
5	1	14,00	60.8		
6	19 09 20 24	15.00	\$37		
7	19072024	16:00	55.1		
B]	17.00	56.5	\$5.6	75.0
9		18.00	59.3	***0	1
10	1	19.00	52.6		
11	1	20.00	51.5		
12	1	21 00	53.6		
13		6.00	48.6		
14	22.02.2024	7.00	51.3		ł
15	20.09.2024	8.00	54.B		
16	1	9.00	\$6.5		
	NI	GHT TIME			
17	10,000,0001	22.00	49.B		
18	19.09.2024	23.00	47.5		
19		0.00	45.7		
20	20:09:2024	[.00	406	456	70.0
21		2.00	44.5	150	/ 0.0
22		3.00	43.8		
23		4.00	457		
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 Ambeunt air quality standards irrespective of Noise (Day & Night Time)

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A - Super 19, T V.K. Industrial Estate, Guindy, Chennal - Environment Division India Page 1 of 1

For Chennal Testing Laboratory Pri Ltd.

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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. TAMIE 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	AMBLENT NOISE LEVEL MONITORING
Sampling Location	110 KVA Sub station(Right Side 10m Away)
Sample Grawn on	20.09.2024 to 21.09.2024
Sampling Plan & Procedure	CTL/QSP/F-89 & 15 9989
Equipment used for Sampling	Suund Jevel Meter 5 No:554062

Test Results:

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

DISCIPLINE : CHEMIKAL

: ATMOSPHERIC POLLUTION GROUP

		тімв	N	OFSE LEVEL VALUES Log d	IB(A)
SLNO	DATE	4 194	Leq	Average Leq	* Limits Leg 4B(A)
		AY TIME			
1		10.00	64.2		
2]	11.00	61.6		
3]	12.00	58.3		
4]	13.00	55.2		
5] i	14.00	\$7.6		
4	19/09 2024	15.00	581		
7	17/07 2014	16 .00	52.0		
R]	17.00	50.6	\$6.6	75.0
9]	18.00	56.3	200	/300
10	1	19.00	60.5		
11	1	20.00	58.5	7	
12	1	Z1.00	53.7		
13		6.00	50.4		•
14		7.00	53.6		1
15	20.09.2024	800	55.7		
16	1	9.00	59.4		
	NJ.	GHT TIME			
17	19.09.2024	22.00	52.4		
18	19.092024	23.00	50.5		
19		0.00	486		
20		1.00	44.7	47.2	70.0
21	20.0 0 ,2024	2.00	42 9	1 7.2	100
22		3.00	43-5		
23		4.00	46.2		[
24		5.00	48.6	7	

Day Tunie: (06.00 Hrs to 22.00 Hrs). Night nmr (22.00 Hrs to 06.00 Hrs).

* TNPCB Limuts as per Schedule III , Ambient air quality standards ir respective of Noise (Day & Night Time).

END OF REPORT

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For Chemosi Testing Laboratory Pvt Ltd

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A - Super 19, T.V.K. Industrial Estate, Guindy, Charlet 600 032 Tarth Vision India (CHEMICAL)

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CIN . U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29791/2024-25 & 03.10.2024	
Sample Number	N-29791/24-25	
Name of the Dustomer	M/S. TANIE NADU NEWSPRINT AND PAPERS LIMITED - UNIT II.	
Address	Mondépatri Village, K Periyapath Post, Manappanai Taluk,	
	Trichy District - 621 306, Tamil Nado.	
Sample Drawn by	Laboratory	
Sample Name	Noise	
Sample Description	A MOLENT NOISE LEVEL MONITORING	
Sampling socation	Southern Boundary	
Sample Drawn on	20.09.7024 to 21.09 2024	
Sampling Plan & Procedure	CTL/QSP/R-89 & IS 9989	
Equipment used for Sampling	Sound level Moter S No:554062	

Test Tesults:

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

DISCIPLINE : CHEMICAL

GROUP 1 ATMOSPHERIC POLLIFICM

			И	IOISE LEVEL VALUES Leg d	r9(A)
SL-NO	BENG	DATE TIME		Average Seq	" Luniks Leg 48(A)
		DAY TIME			•
1	Γ'	10 00	\$63		
2		1100	\$4.1		
3	ſ	12:00	55.2		
4		13.00	51.6	-	1
5		14.00	49.6		
6	19.09.2024	15.00	50.7	·]
7	14.042.054	16.00	52.6		
R		17.00	489	52.4	75.0
9		18.00	514	*4L	1347
10		19.00	476		
11		20.00	45-8	7	
12		21.00	49.6		
13		6.00	538		-
14		7,00	57.4		
15	20.09 2024	8,00	54Z		
16		9.00	593		
	N	GHT TIME			
17	1000 2024	22.00	503		
18	19 09.2024	23.00	46.7	i	
19		0.00	43.B		
20		1.00	41.9	45.7	70 0
21	70 60 2024	2.00	44.3		
22	20 09 2024	3.00	45.7]	
22		00,0	42.0	7	
24	1	\$.00	50.4		

Day Time: (06.00 Jirs to 22.00 Hrs). Night lime (22.00 Hrs to 06.00 Hrs)

* TNPCB ('mets as per Schedule 18, Ambient air quality standards (mespectrue of Noise (Day & Night Time).

*** END OF REPORT***

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Page 2 of L

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CIN · U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-29789/2024-25 & 03.10.2024
Sample Number	N-29769/24-25
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Address	Mondipatti Village, K.Periyspatti Post, Manappatai Taluk,
,,	Trichy District - 621 306, Tanul 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	CT1./QSP/F-89 & 15 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

: ATMOSPHERIC POLLUTION CROID

iROUP	ATMOSPHERIC POLLOTION		N	ONSE LEVEL VALUES Log &	IB(A)
SLNQ	DATE	TIME	keq	Average Leq	* Limits Leg dB(A)
	D	AY TIME			
1		10.00	66.3		
2	-	11.00	57.4		1
3	-	12,00	62.9	_	1
+	-	13.00	60.9		
š		14.00	634		
6		<u>15.00</u>	61/1		
7	19,09.2024	16.00	58.5		
8	-	17.00	55.9	58.0	75.0
9	-1	1870	\$3.B		
- <u>ïo</u>	1	19.00	504		
11	-	20.00	52.7		
12	1	21.00	48.9		
13		6.00	\$3.8		
14	-	7.00	\$7.6		
15	20.09.2024	8.00	60.5		
16	-	9.00	63.7	<u> </u>	
		GHTTIME			
17		22.00	476		
18	19.09.2024	23.00	50.5		
19	· · · · · · · · · · · · · · · · · · ·	0.00	463		
20	1 !	1.00	447	47.6	70.0
21		2.00	48.1		
22		3.00	45.7		
23	-	4 00	47.7		
24	-1	5.00	50.5		

Day Time: (06.00 Hrsto 22.00 Hrs), Night time (22.00 Hrsto 06.00 Hrs)

TNPCB Limits as per Schedule III , Ambient au quality standards use 59.4

END OF REPORT

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For Chennal Testing Laboratory Pvt Ltd

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(CHEMICAL) Phone : +91-44-2250 1757 | E-mail : chennaitesting@chennaitestinglab.com www.ctlabs.in





CIN : U93000TN2000PTC043869

TEST REPORT

CTL/CH/N-29788/2024-25 & 03.10.2024
N-2978B/24-2\$
M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - UNIT II,
Mondipatti Village, K.Perlyspatti Post, Manapparal Taluk.
Tridiy District - 621 306, Tamil Nadu.
Laboratory
Noise
AMBIENT NOISE LEVEL MONITORING
Back side of Workshop(Near Compound wall)
20.09.2024 to 21.09.2024
CTL/QSP/F-89 & IS 9989
Sound level Meter 5 No:554062

Test Besults:

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

GROUP ATMOSPHERIC POLLUTION

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* TNPCB Limits as per Schedule III Amblent air quality standards irrespective of Noise (Day & Night Time)

END OF REPORT

Werlined by

Authorised Significity

By MANIKANDAN

A - Super 19, T.V.K. Industrial Estate, Guindy, Cherrent- 6904938manhbhadar- India

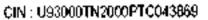
(CHEMICAL) Phone : +91-44-2250 1757 [E-mail : chennaitesting@chennaitestinglab.com www.ctilabs.in

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Por Cheunai Testing Laboratory Pvi Lie







TEST REPORT

Test Report No & Date	СТС/СН/М-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 IL
Address	Mondiparti Village. K Penyapatti Post, Manapparti Taluk,
	Trichy District - 621 306. Taroll Nadu
Sample Drawn by	Laboratory
Sample Name	Noise
Sample Pescription	AMBIENT NOISE LEVEL MONITORING
Sampling Location	Thiru.Kandasany House,Pongudipattij@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 9989
Equipment used for Sampling	Sound level Meter S No:554062

Test Results:

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

DISCIPLINE : CHEMICAL

: ATMOSPHERIC POLLUTION GROUP

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* TNPCB Limits as per Schedule III , Ambient air quality standards (tresponses of Noise (Day & Night Time)

For Chennal Testing Laboratory Pvi Ltd

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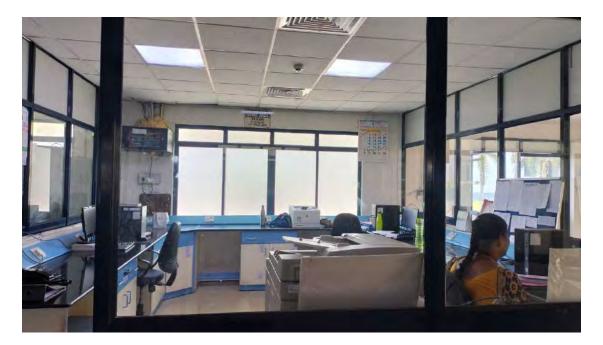
Phone . +91-44-2250 1757 | E-mail : chennaitesting@chennaitestinglab.com www.ctilabs.in

Verified by

TNPL Unit - II Solar Lights Installed at Nearby Villages



Led Lights in Office Buildings of TNPL Unit - II



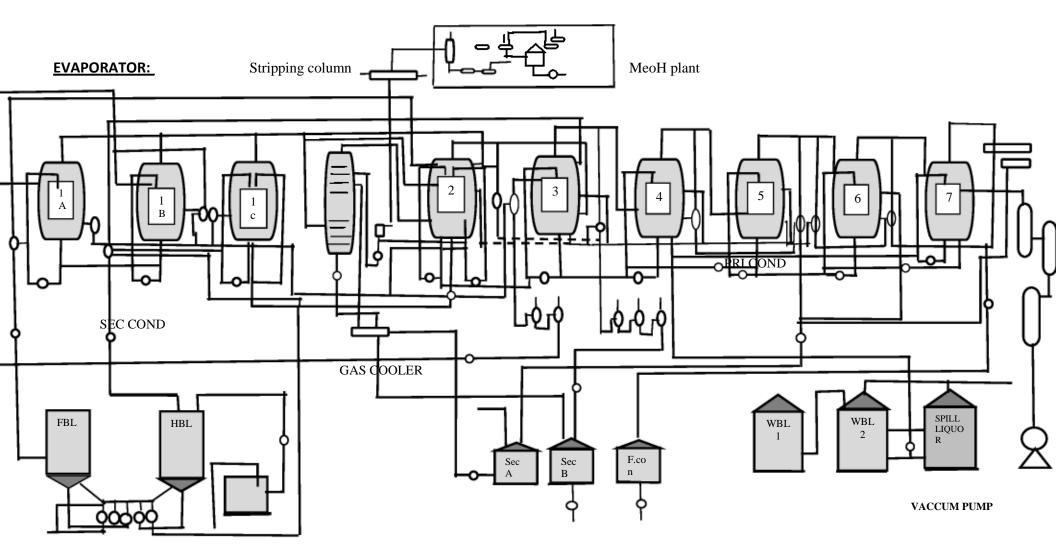


Led Lights in residential areas of TNPL Unit - II





TNPL Unit - II Chemical Recovery Plant

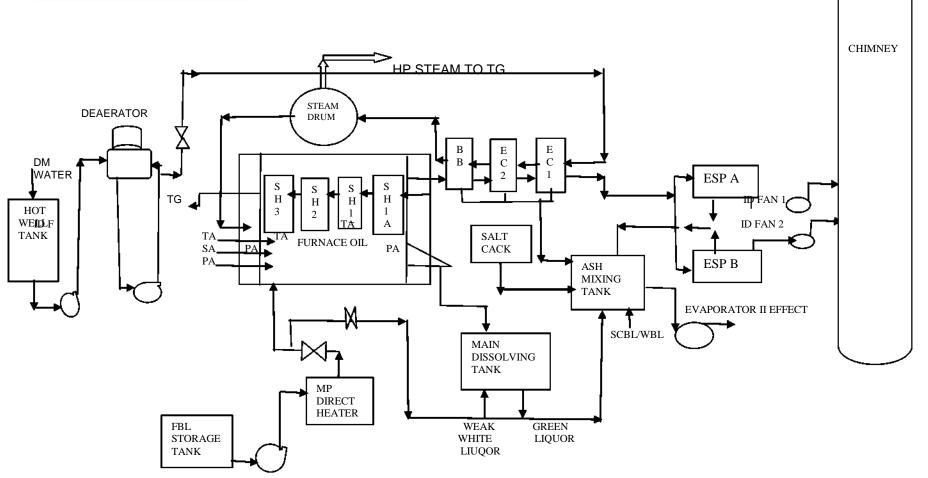


TNPL Unit - II Chemical Recovery Plant

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 liquor 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-1 are under WBL washing.

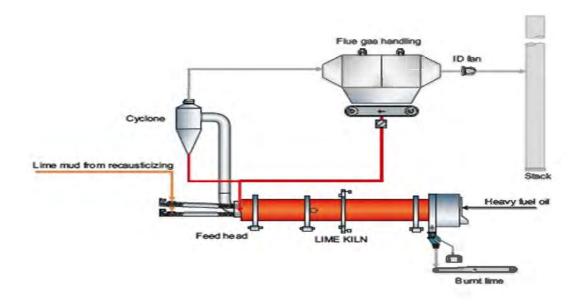
RECOVERY BOILER OPERATION :



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 s, 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 Recausticising plant to produce white liquor by addition of Lime.

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.



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		ADDRESS TO DELIVERY	14146 PAN : AAACT2935J
CUSTOMER	Cement Raw Material Inventory	CUSTOMER	Cement Raw Material Inventory
ADDRESS STATE	CEMENT RAW MATERIAL INVENTORY, TNPL LIME SLUDGE AND FLY ASH MANAGEMENT, KAGI I HAPURAM KAGI THAPURAM, TAMIL NADU, 639136, INDIA TAMIL NADU	ADDRESS	CEMENT RAW MATERIAL INVENTORY,TNPL LIME SLUDGE AND FLY ASH MANAGEMENT,KAGITHAPURAM KAGITHAPURAM,TAMIL NADU.639136,INDIA
STATE CODE	. 33	STATE	TAMIL NADU
GSTIN	33AAACT2935J1ZF	STATE CODE	. 33
		GSTIN	. 33AAACT2935J1ZF
SALE ORDER	820232300006 DATE 23-JAN-2024	RANGE & DIVISION	MOFFUSAL TRICHY-1
		GST COMMISSIONERATE	NO. 1, WILLIAMS ROAD, TRICHY-1
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UQC QUANTITY UNIT PRICE	. MT 4071 59.67		IS TWO THOUSAND FOUR HUNDRED FY-NINE ONLY

For Tamil Nadu Newsprint and Papers Limited Unit-II

 ${\rm Arr}^{\rm M}$

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, Manaparai-621 306, Trichy District, Tamilnadu. Telephone No: 04332-265265

TAX INVOICE

BUYER/TRANSPORTER COPY/GST/FILE

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GST Invoice No.	20238501141		DATE	\$	29-MAR-2024		
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Sale Order	: 820231300078		DATE	3			
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			COMMISS		MOFFUSAL TRICHY - I NO.1,WILLIA TRICHY	AMS ROAD, TRICHY	Y -1
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Copy1. To be forwarded by the sender to the State Pollution Control Board after signing all the seven copies

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	Signature:	Month Day Year
Receiver's certification for	eceipt of hazardous a	and other waste
Name and Caller, KARUR	Signature:	Month Day Year
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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



ENV/TNPCB/UNIT II/218

25.07.2024

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

TNPL Corporate Office

67, Mount Road, Guindy, Chennai, TN, India - 600 032. Phone: 044-22354415,16,16 22301094 to 97 E - mail: response@tnpl.co.in, Web: www.tnpl.com Corporate IO No : L 22121 TN 1979 PL C 007799 TNPL Unit - I - Paper Plant Kegithapuram - 639 136, Pugalur Taluk, Karur Dist. Tamil Nadu, India. Phone: (0091) 04324-277001 to 10 Cell : 94860 41341 to 41343



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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







Tamil Nadu Newsprint and Papers Limited (A Govt, of Tamil Nadu Enterprise)

JULY - 2024

Final Report

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 ₂ e	Tonnes of CO ₂ Equivalent
GHG	Green House Gases
GWP	Global Warning Potential
CO ₂	Carbon dioxide
CH ₄	Methane
NO ₂	Nitrous oxide
HFC	Hydrofluorocarbon
PFCs	Perfluorocarbons
SF ₆	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 (tCO₂e). 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 CO₂e, 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 CO₂e, making up 1.69% of the total. Scope 3 emissions, including all other indirect emissions, total 29,929.73 tonnes of CO₂e 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

Final Report

value of 18,943.48 tonnes of CO_2 for 2023. The net carbon emission for CY 2023 is 3,72,318.83 tons of CO_2 .

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. 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 preeminent 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.

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:

- $\circ~$ Quantify GHG emissions over the period Jan 2023 Dec 2023
- Identify gaps and emissions reduction opportunities.
- \circ Estimating carbon sequestration of TNPL plantation.
- \circ $\,$ 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.

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:

- o 14 (2019-20)
- o 34 (2022-23)

Indian Peacock Population:

- o 400 (2019-20)
- o 570 (2022-23)

A recent study conducted by SSFRD organization revealed the presence of:

- Tree Species: 252
- o Shrub Species: 68
- Herb Species: 169
- Grass Species: 48
- o Medicinal Plant Species: 39
- Bird Species: 97
- o Arthropod Varieties: 90
- Reptile Species: 18
- Mammal Species: 12

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.

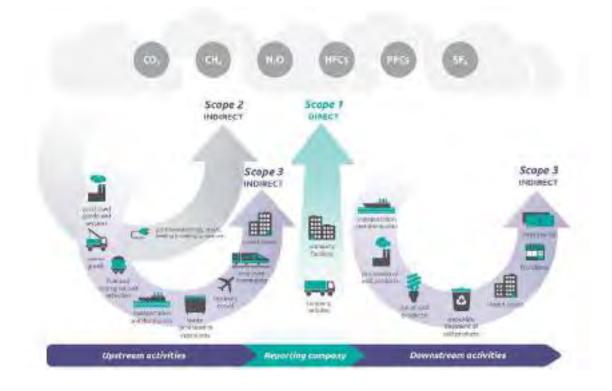


Figure 2. Schematic representation of carbon auditing scopes.

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
- \circ $\;$ 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.

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 CO_2 released during combustion is approximately equal to the CO_2 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 CO_2 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 CO_2 from the atmosphere during growth, and using black liquor for energy releases this absorbed CO_2 , 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 CO_2 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 CO_2 , 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

- 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:

Site	Location	Address	Area (Acres)	Headcount
	Trichy,	Mondipatti Village, K.Periyapatti		
TNPL	India	Post, Manapparai Taluk, Trichy	282.67	729
$\operatorname{Unit}-\operatorname{II}$	(10.551625,	Dt, Tamil Nadu, India	282.07	129
	78.579500)	Pincode – 621306.		

Table 1. Company location details

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).

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).

GHG	GWP	
Carbon dioxide	1	
Methane	28	
Nitrous oxide	265	
Hydrofluorocarbon	See IPCC AR5	
Perfluorocarbons	See IPCC AR5	

Table 2. Global warming potential for various green house gases.

GHG Auditing Study - 2023

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 tCO₂e. Bitumen emerges as the largest emitter, contributing approximately 3,28,997.42 tCO₂e, which accounts for 92.74% of the total Scope 1 emissions. Furnace oil follows, contributing 24,876.08 tCO₂e, 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 tCO₂e.

Direct emissions from owned or controlled sources, total 3,54,727.16 tCO₂e. 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 carbonintensive. Strategies to reduce bitumen consumption or replace it with lowercarbon alternatives could substantially decrease overall emissions.

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 tCO₂e 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 tCO₂e. The majority of these emissions originated from the purchase of goods and materials, which contributed 17,940.35 tCO₂e, or 59.94% of other indirect emissions. Significant contributors within this category included Calcium Carbonate (3,677.52 tCO₂e), Corn Starch (4,112.64 tCO₂e), and Caustic Soda (4,068.96 tCO₂e). Upstream transportation activities added 3,410.66 tCO₂e (11.39%), while downstream transportation activities contributed 7,918.56 tCO₂e (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 (CO_2) 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 CO_2 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 CO_2 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 CO_2 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 CO_2 /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

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 (CO_2).

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 CO_2 . Eucalyptus tereticornis and Casuarina equisetifolia were the top performers, capturing 262 kg and 440 kg of CO_2 , respectively. The other species contributed modestly, with Millingtonia hortensis capturing 13 kg and Terminalia catappa 27 kg of CO_2 . 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.

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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 CO_2 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 tCO₂e 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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Jhariya, M.K., & Raj, A. (2014). Carbon sequestration potential of tree species in tropical dry deciduous forests of Chhattisgarh, India. Journal of Sustainable Forestry.

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.

Annexure II – GHG Certification





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:

- 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.
- 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.

- \sim 5. In the coal storage area, adequate lighting facility shall be provided.
 - 6. Workers is coal handling area shall be periodically tested to diagonise lung infection as the workers ability to fight against the infection may be over whelmed by in hating coal dust, making the workers more susceptible to lung disease.

Record of periodical medical examination shall be maintained is 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 per oxide shall be stored is 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 pars electrical flow.
- 9. Safe work practices followed to carryout 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. 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:

 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.





www.ctllabs.in

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	Неаvy
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

For Chennai Testing Laboratory Pvt Ltd

]. N_ - C

Authorised Signatory G. MANIKANDAN

Head - Environment Division (CHEMICAL)

Page 1 of 1

Q Verified by

TAMILNADU NEWSPIRNT AND PAPERS LIMITED, UNIT-II, MONDIPATTI

CATEGORY	UOM	STRE	TOTAL	
	UOM	MALE	FEMALE	IUIAL
WORKMEN	Nos.	460	18	478
STAFF	Nos.	32	19	51
OFFICERS	Nos.	236	16	252
TOTAL	Nos.	728	53	781

Total number of Permanent Employees as on 31st Mar 2024

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.

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.

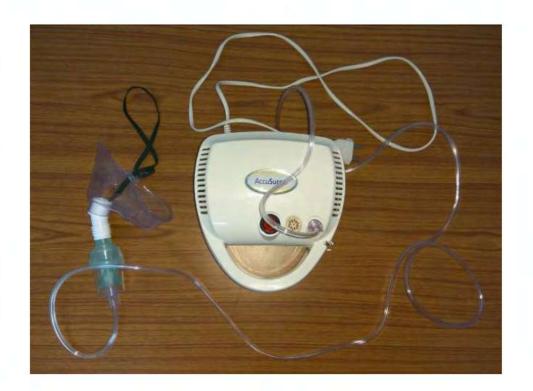
iv) Providing first aid and other related training to the employees.

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 O_2 , 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. Arthiritic 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.



BPApparatus:

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 O_2 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 O_2 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 O_2 cylinder.





ROYAL CARE SUPER SPECIALITY HOSPITAL LTD.

1/520, L&T Bypass Road, Neelambur, Sulur Taluk, Coimbatore - 641062

Master Health Check up Summary

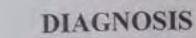
NAME: Mr. Elanchozhan R TNPL 3928

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.



> Dyslipidemia

PRESCRIPTION

> CAP. LUMIA 60k 1 week x 8 weeks.

ADVICE

Life style modification.

Dr. P. Janarthanan, MBBS, MD (Cardiology)

Transcribed by Sathyapriya. S

PG.DIP Endocrine & Diabetes (RCP London)



भारत सरकार /Government of India

वाणिज्य और उद्योग मंत्रालय/Ministry of Commerce & Industry

पेट्रोशियम तथा विस्फोटक सुरक्षा संगठन /Petroleum & Explosives Safely Organisation (PESO) A और D - विंग, ब्लॉक 1-8, दूसरा तस्, शास्ती भवन, 26 हब्रोउस रोड, भुंगम्बक्कम चेन्ने- 600006

A & D - Wing, Block 1-8, Ind Floor, Shastri Bhavan, 26 Haddous Road, Nungambakkam, Channal - 600006

इमेल /E-mail ;]tccechennai@explosives.gov.in *

दूरभाष /Phone/Fax No : 044 -28287118,28281023,28281041,28287119/28284848 दि/Daled : 24/05/2022

¥Í /No : G/SC/TN/06/3229(G89479)

सेवा में ///o.

- M/s. M/s. TAMILNADU NEWSPRINT AND PAPERS LIMITED UNIT-,
- MONDIPATTI, K.PERIYAPATTI POST., Village/Town: Mondipatu,
- City: Manapparai,
- 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 सिलॅंडरों में CHLORINE, SULPHUR DIOXIDE गैस का भंडारण- गैस सिलॅंडर नियम, 2016 के फार्म एफ के अंतर्गत निरीक्षण एवं अनुज्ञापित का पृष्ठांशकन 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: Tiruchirappaili, 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 ज्ञापना सं G/SC/TN/06/3229(G89479) और दि. 13/04/2022 को उपरोवत परिसर का अधोहस्ता)क्षरकर्ता/ इस कार्यालय के अधिकारी द्वारा की किए गए निरीक्षण का अवलोक में करें Please refer to the this office Memo No : G/SC/TM/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, अनुज्ञाप्ति के पुनः नवीयरण हेतु आवेदन this office कार्यालय को इस अन्तर्भारा की वैधता समाप्त होने के पूर्व (दिनोक 30 सितम्बर 2026 को या इससे पूर्व) जमा कर दें | दिनांक 30 सितम्बर 2028 के प्रश्नात परंतु दिनांक 30 सितम्बर 2027 से पूर्व प्राप्त 11 ने निरूरण 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 अनुज्ञपि स्वतः निरस्त हो जाएगी । /Please note that your application for further renewal should reach this office on or before 30th Septemebr, 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 Rulos. The licence will automatically expire if no application is received upto 30^(h) September, 2027.

भवदीय (Yours faithfully,

((डा. ए. श्रेख हु^{के}न) (Dr. A SHEIK HV – NN)) विस्फोशन मिनेत ह **Controller of Explosives** कृते संयुक्त भुख्य विश्फाः का नियंत्रक For Jt, Chief Controller of Explosives ਚੈਐ/Chennai

[अधिक जानकारी जैसे आवेदन की स्थिति, शुल्कक तथा अन्यथ दिवरण के लिए कृपथा हमारी वेबसाइट http://peso.gov.in देखें 1] (For more information regarding status, fees and other details please visit our website http://peso.gov.in)

Note:-This is system generated document does not require physical signature.

Endorsed after Inspection



WITH WIN OFF FORM F

Jt. CCE. S (निर्धम 60,51 और 54 देखें /(See Rules 50, 51 and 54) Licence to store compressed gas in cylinders

ेअ- ज़ियि रेडिग/ Licence No. : G/SC/TN/06/3229(G89479)

1

वार्षिक शुल्क। रू/Fee Rs. 2000/- per year

M/s. TAMILNADU NEWSPRINT AND PAPERS LIMITED UNIT-I, MONDIPATTI, K.PERIYAPATTI POST,, City: Manapparai, Taluka: Manapparai, District: TIRUCHIRAPPALLI, Stato: Tamil Nadu, Pin: 621306 को नीचे वर्णित और रेखांक संख्या G/SC/TN/06/3229(G89479) dated 13/04/2022 में दर्शित किए गए अनुज्ञप्त परिसर में, आश्तीय विश्फोटक 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.

यह अन्ध्राप्ति 30 सितम्बर 2026 तक प्रवृत्त रहेगी । / The Licence shall remain in force till the 30th September 2026.

April 13, 2022

For Jl. Chief Controller of Explosives Chennai कृते संयुक्त मुख्य विस्फोटक नियंत्रक चेन्ने

अनुज्ञाप्त परिसर का विवरण और अवस्थिति / DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

निश्रविसित विवरण के अनुसार सिलेण्डरों में भरी गैस रखने के लिए अनुज़प्त 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	
		CHLORINE - 76 Nos., SULPHUR DIOXIDE - 24 Nos.	
b)	गेर विषेले और गेर ज्वलनशील /Non-Toxic and Non Flammable	NIL	
c)	गेर विषेले और ज्वलनशील /Non-Toxic and Flammable	NIL	
d)	धुलित एसिटिलीन गैस Dissolved Acetylene Gas	NIL	
e)	एलपीजी के अलावा गैर विषेले और ज्वलनशील द्रवित गैस /Non-Toxic & Flammable liquefiable gas other than LPG	NIL	
f)	एलपीजी/ Liquefied Pertoleum Gas	NIL	

अोश प्लाद संख्या SurveyNo : 2/1,2,6/1,2,3 गली का नाम गांव : Mondipatti या नगर पुलिस थाना : Manapparai जिला : TIRUCHIRAPPALLI, राज्या : Tamil Nadu. / and is siluated 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

7	नवीकरण की तारीख/Date of	समाप्ति की तारीख/Date of	अनुज्ञापि प्राधिकारी के हरताजक्षर/Signature
	Renewal	Expiry	and stamp of the licensing authority
इस अनुइाप्ति को, विस्फोटक अधिनियम, 1884 या उसके अधीन बनाए गए गैस सिलेण्डर नियम, 2016 के उपबंधों या इस अनुहाप्ति की शर्तों का उल्लंघन न होने की दशा में, फीस में कोई कुट दिए बिना दस वर्ष तक नवीकृत किया जाएगा I/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	P S S S S S S S S S S S S S S S S S S S		-

यदि अनुशास परिसर इसरो उपाबद्ध विवरण और शतों के अनुरुप नहीं पाया जाता है और जिन नियमों और शतों के अधीन यह अनुश्चादि दी गई है, उनमें से किसी का उल्लंघन होता है तो यह अनुश्चादि रह की जा सकती है और अनुश्चादि का धारक कारावास से, जिसकी अवधि दो वर्ष तक की हो सकेगी, या जुर्माने से, जो तीन इजार रुपये तक का हो सकेगा, या दोनों से, दण्डनीय भी होगा 17 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.

ी रा सिनेगर नियम, 2016 के अधीन वियाक्त मैस कंटेनरों / सि<u>लेंडर के भरण एवं भंडारण के लिए अतिरिक्त शतों/ADDITIONAL CONDITIONS FOR FILLING AND OR</u> STORAGE OF TOXIC GASES CONTAINERS/CYLINDERS UNDER GAS CYLINDERS RULES, 2016.

्धरेतर में परिवालन स्विच के साथ एक प्रभावशाली अलार्म प्रणाली की व्यवस्था की जाएगी। आपात स्थिति में, परिसर में स्विच ऑपरेट करने पर नियंत्र कक्ष में

- 3 अगर्भ सुनि जा सकेमाम/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.
 विश्वत मेस के रिसाद की आगत स्थिति के लिए एक आपदा प्रबंधन योजना रीयार की जाएगी। योजना द्वारा संबंधित अधिकारी की जिम्मेपदारी तय की जाएगी.
- 5 जिल्ही रिसास की स्थिति में विश्वावत 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 concorned officers who shall be trained in the different aspects of handling toxic gas equipments in case of leakage.
- 3 अधारा स्थिति में उपयोग के लिए परिसर में या इसके पास एक या अधिक पर्याप्त दबाव के हायडूंट 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.
- uttert में कम से कम दो आत्म निहित श्वास तंत्र (सेल्फ केंट्रेंड ब्रीदिंग अॅपरेटस) और दो कनस्तर प्रकार के गैस मास्क सहज सुलभ स्थान में रखे जाएंगे. I/At 6 least two numbers self contained breathing apparatus and two Canister type Gas Masks shall be kept in the premises in a readily accessible location.
- ्र प्रोरेडर हे या इसके पास विषायत गैस के रिसाय का पता लगाने के लिए पोर्टेबल उपकरण उपलब्ध कराया जाएगा।/Portable devices for detection of toxic gas leasing shall be made available in or near the premises.
- (a) b) दिशा निर्धारित करने के लिए उपयुक्त स्थान पर एक वातदिग्दर्शक-मुर्ग उपलब्ध कराया जाएगा जिससे विधाक्त गैस के रिसाव की स्थिति में श्रमिकों को
 (b) के विरुद्ध दिशा में स्थानांतरित किया जा सकें/A weathercock shall be provided at a suitable location for determining wind direction so to still case of leakage of toxic gas, the workers can move against wind direction.

्र सिरियारी के पास विभिन्नए उपकरण और औजार, जैसे सिलेंडर और टनरों के लिए वाल्वn हुड, सिलेंडर वाल्व रिसाव के लिए क्लैं प और टनरों के वॉल्वे के 7 - दिक हु के लिए केने और योक असेंबलि सहित उपकरणों से मिलकर बनी आपातकालीन किंट उपलब्ध होनी चाहिए I/Emergency kit consisting of various

- A bit for the state of the
- ्र अने के बंद होगे/ लॉक-अप के मागले में, परिसर में कोई विषाक्त गैस युवत सिलेंडर नही रखा जाएगा।/In case of closure/cock-up of the filling plant, no cylinder containing toxic gas shall be retained in the premises.
- 6 वियान के मामले में विषायत गैस के निष्प्रभावीकरण के लिए पर्याप्त सुविधाएं प्रदान की जाएगी l/Adequate facilities for neutralization of toxic gas shall be provided in case of leakage.
- ाः, विकास गरा परिसर में उचित सिलेंडर लदान (लोडिंग)/माल उतराई (अनलोडिंग) और हथलाई (हैंडलिंग) की व्यवस्था की जाएगी।/Proper cylinder The mission 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 निपंटक चेत्रे

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भारत सरकार/Government of India वाणिज्य और उद्योग मंत्रालय/Ministry of Commerce & Industry पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसे) /Petroleum & Explosives Safety Organisation (PESO) A और D - विंग, ब्लॉक 1-8, ट्रसरा तल, शास्त्री भवन, 26 हड्रोउस रोड, नुंगम्बक्कम चेन्ने- 600006

A & D - Wing, Block 1-8, Ind Floor, Shastri Bhavan, 26 Haddous Road, Nungambakkam,

Chennai - 600006

ईमेल/E-mail : Jtccechennal@explosives.gov.in फोन / फ़्रेक्स नंबर:/Phone/Fax No : 044 -28287118,28281023,28281041,28287119/28284848 दिनॉक/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 : Piot No, UNIT-II, MONDIPATTI, MONDIPATTI, Manapparai, Taluka: Manapparai, District: TIRUCHIRAPPALLI, State: Tamil Nadu, PIN: 621306 स्थित OXYGEN, गैस के संपीडित पात्र / पात्रों में भंडारण के लिए स्थिर एवं गतिशील दाब पात्र (अज्वलित) नियम, 2016 के अधीन स्वीकृत अनुज्ञाप्ति संख्या S/SC/TN/03/212 अनुज्ञाप्ति 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 - Liconce No : S/SC/TN/03/212 grant in form LS-1A of SMPV(U) Rules, 2016-Endorsament of Licence Regarding

Hild4/Sir(s),

कृपमा Jt. Chief Controller of Explosives South Circle Office's के जापन स S/SC/TN/03/212 (S100682) दिनोक 23/06/2022 का संदर्भ और अधोहस्ताक्षकर्ता/ कार्यालय के अधिकारी द्वारा उपरोक्त परिसरों के किए गए निरीक्षण दिनोक 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 लाइरोंस के साथ इसे पृष्ठांकन किया जाता है। लाइसेंस की पापित 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 अनुझप्ति के पुनः नवीकरण हेतु आवेदन, इस कार्यालय को इस अनुझप्ति 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 संयुक्त मुख्य विस्फोटक नियंत्रक For Jt. Chief Controller of Explosives चेन्नै/Chennaí

(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: Lionico No. 5/90/TN/03/212 Liceston:South Circle Office [5100662] Date 11-07-2022 10xt0/49 AM





जरीज्ञण उ Endorses

in to 7

FORM LS-1A/प्ररुप - एलएस-1क (See Rules 50, 51, 54 and 55)/(नियम 50 , 51, 54 और 55 देखें)

टाव पात्र या पात्रों में संपीडित गैस भण्डारकरण के लिए अनुज्ञप्ति ALC.C.E. S.C. Chennal

अनुज्ञप्ति स/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.

射 M/s. TAMIL NADU NEWSPRINT & PAPERS LTD, 67 ,MOUNT ROAD ,GUINDY,Chennai, Taluka: Chennai, District: CHENNAL, 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 शतौं पर 2 दाब पात्र / पात्रों में संपीड़ित गैस के भण्डारण के लिए अनुज्ञाप्ति मंजूर की जाती है। यह अनुज्ञप्ति 30 सितंबर 2026 तक प्रवृत्त रहेगी।

The Licence shall remain in force till the 30th September2026,

	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(Liquified gas)/किलोग्रॅम में जारी मात्रा (लिक्विफाईड गैसेस)
22860-150-0063	OXYGEN	Gaseous	60.00	275	- straig
22860-150-0064	OXYGEN	Gaseous	60.00	and a state of the	1
the second s	tal Water capao		120.00		

June 23, 2022

For JL Chief Controller of Explosives SC, Chennai कृते संयुक्त मुख्य विस्फोटक नियंत्रक त्रध

DESCRIPTION AND LOCATION OF THE LIGENSED PREMISES/अनुज्ञप्त परिसर का विवरण और अवस्थिती

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 ManapparaiMONDIPATTI and consists of 2 Number(s) vessel(s) for storage of :/अनुज्ञप्त परिसर, प्रदर्शित सीमा और अन्य विवरण जो रांलग्न अनुमोदित रेखाचित्र क्र.S/SC/TN/03/212 दिनांक 23/06/2022 मे दर्शाए गए हे ManapparalMONDIPATTI पर स्थित है और इसमें 2 वेसल सम्मिलित है।

a) Flammable/Corrosive/Toxic Gases :/ज्वलनशील / संक्षारक / विषेली गैसों:

b) Non-Toxic Gases :/अविषेली गैसी : OXYGEN

and is situated at PlotNo : UNIT-II Village/Town :ManapparaiMONDIPATTI Police Station : mannaparai District TIRUCHIRAPPALLI, State: Tamil Nadu _ Pin : 62.

/प्लाट संख्या PlotNo : UNIT-II गांव या नगर :ManapparalMONDIPATTI पुलीस थाना mannaparal जिला TIRUGHIRAPPALLI राज्य Tamil Nadu , Pin : 62 में स्थित है।

SPACE FOR ENDORSEMENT OF RENEWALS/नवीकरण के पश्चांकन के लिए स्थान

	Date of Renewal/ नवीकरण की तारीख	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			Lendrova ave alter

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

Digitally signed by DR D C PANDEY Reason: Licence No. ; S/SC/TN/03/212 Location:South Circle Office [S100682] Date 2022 06:23 04:21;10 +05:30

CER Expenditure from April' 2024 to Sep' 2024				
S.No	Activity	Actual Expense in Rs.	Photo	
•	Health car	re and Medical service		
1	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. Beneficiaries: Total Ops. = 245 Undergone IOL surgery = 110 and Provided free spectacles = 48 Persons.	80855.00		
		c Development and Securi	ity	
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		
	Cult	ural & Heritage		
5	Provided Kambu & Solam to Peacocks Sanctuary at Arulmigu Sri Subramaniya swamy Temple, Viralimalai, Pudukottai District	13,500.00		

6	Provided paver block flooring to Karuppasamy, Sri Kannimar and Sri Ayyanar Temples and arranged structural shed to Karuppasamy Temple at Chithanatham village	3,71,316.00	
	Enviro	nment & Sanitation	
7	Green belt planting at Chinnarediyapatti, Poongudipatti and Road side tree planting neary by Unit-II	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.

S. Sivashanmugaraja, I.A.S., Managing Director

Issue No: 02 November 16, 2020



தமிழ்நாடு செய்தித்தாள் காகித நிறுவனம்

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.

- தரய்மையான சூழலில் தற்கால தொழில்நுட்பத்தை கடைபிடித்து முழுத்திறனுடன் 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 உட்புகுத்தி நிலையான தரம், உகந்த ஆற்றல் நுகர்வு, கற்றுச்சூழல் 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 குழுமம் 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
- வாடிக்கையாளாகளின் திருப்தியை அதிகரிக்கும் வகையில் தரமான பொருட்களை உகந்த விலையில் உரிய நேரத்தில் அவர்களிடம் விநியோகித்தல்.
- நிறுவனத்தின் ஒருங்கிணைந்த மேலாண்மை அமைப்பினை மேம்படுத்த தேவையான பங்களிப்பு மற்றும் செயல்முறைகளை கடைப்பிடிக்க தேவையான அதிகாரங்களை ஊழியாகளுக்கு அளித்தல்.
- சிறப்பான உற்பத்தி மாதிரியை அடிப்படையாக கொண்டு தரம், ஆற்றல், சுற்றுச்சூழல், சுகாதாரம் மற்றம் பாதுகாப்பு ஆகியவற்றை பேணுவதற்கான தேவைகளை தனது வணிகாீதியான தீர்மானங்களுடன் ஒருங்கிணைத்தல்.

வெளியீடு எண்: 02 நவம்பர் 16, 2020 சு. சிவசண்முக ராஜா இ.ஆ. ப., மேலாண்மை இயக்குநர்



TAMIL NADU NEWSPRINT AND PAPERS LIMITED, UNIT - II

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. Sreesha	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 & Chemical Recov	
5	Mr. A. Velmurugaraj	DGM (HR)	MA Social Dynamics PG Diploma in Personnel Management and Industrial relations	
6	Mr. K.S. Rajkumar	AGM (Stores)	B.E. Mechanical	Head of stores and Disposal
7	Mr. N. Muruganantham	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
PLAN	TATION ACTIVITIES			
9	Dr. K. Jayakumar	DGM(Forestry)	Doctorate in Agronomy	Head – Forestry, Plantation, Coordinator for TNAU activities
10	Dr. P. Chezhian	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

CGM BP (0 1/C)



Tamil Nadu Newsprint and Papers Limited

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Kagithapuram - 639 136, Pugalur Taluk, Karur Dist. Tamil Nadu, India. E- mail : pmd@tnpl.co.in Phone: (0091) 04324-277001 to 10 - (10 Lines) Cell : 94860 41341 to 41343, GSTIN: 33AAACT2935J1ZF

		, NCG Collection and incineration		
itatus:	Installed			
Sl.no	Description	Supplier Name	Cost in Rs. Incl. Tax	Commissioning date
1		Valmet AB, Sweden		
2	DNCG - Scrubber for Pulp Mill	Valmet Technologies Private Limited, Chennai	50,93,470	31-Jan-22
3	Supply and Erection of ESP for	Andritz Technologies Private Limited, Chennai	18,89,88,800	31-Jan-22
4	Recovery Boiler		1,64,64,932	51-301-22
5	Supply and Erection of ESP for	Supply and Erection of ESP for Andritz Technologies Private 7,08,00,000	11-Mar-22	
6	Lime Kiln Plant	Limited, Chennai	92,00,318	11-10101-22
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

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 - II - Board Plant** Kagitha Nagar, Mondipatti, K.Periyapatti Post, Manapparai Taluk, Tiruchirappalli District, Tamil Nadu, India - 621 306. Phone: 04332-261600 Cell: 94890 12793





Status of Environment Management Plan of EIA study report

I. AIR QUALITY MANAGEMENT PLAN

<u>EMP 1</u>

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 2017regulations.

<u>Compliance</u>

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.

<u>EMP 2</u>

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.

<u>Compliance</u>

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.

<u>EMP 3</u>

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.

<u>EMP 4</u>

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





<u>EMP 5</u>

Like the existing boiler, continuous online stack emission monitoring unit will be installed to monitor Particulate Matter, SO2 and NOx emissions for the proposed boiler.

Compliance

TNPL has provided Continuous online stack emission monitoring system for measuring Particulate Matter, SO2 and NOx 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

<u>EMP 1</u>

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

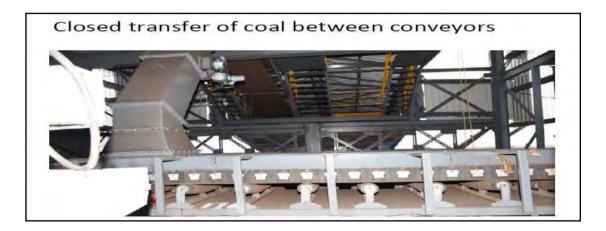


<u>EMP 2</u>

Existing Closed belt conveyors will be extended up to the new boiler.

<u>Compliance</u>

Closed belt conveyors has been provided for the existing boiler which will be extended for the proposed boiler under Phase II of MEP.



<u>EMP 3</u>

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.



<u>EMP 4</u>

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.

<u>Compliance</u>

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.



<u>EMP 5</u>

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.

<u>Compliance</u>

This practice is being followed from the inception of the unit and shall be continued on post MEP implementation also.



<u>EMP 6</u>

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.



<u>EMP 7</u>

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.



<u>EMP 8</u>

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 striping 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 Recausticising 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 Recausticizing 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.

<u>EMP 4</u>

Vents from bleaching tanks will be connected to a alkali scrubber.

<u>Compliance</u>

Vents from bleaching tanks were connected to a alkali scrubber.



IV. NOISE MANGEMENT PLAN

<u>EMP 1</u>

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.

<u>Compliance</u>

Turbo – generator is provided with acoustic insulation and placed in closed room as shown.



Acoustic Insulation



<u>EMP 2</u>

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.

<u>Compliance</u>

Noise barriers/ shields, silencers etc., are installed in the system.



<u>EMP 3</u>

Ear plugs are being provided to workmen working near high noise generating sources.

<u>Compliance</u>

Ear Plugs are provided to the persons working near high noise generating area.



<u>EMP 4</u>

The existing greenbelt around the plant will further attenuate noise levels.

<u>Compliance</u>

Totally 8,11,783 nos. of trees are planted to reduce the impact of noise level.



V. WATER AND WASTEWATER MANAGEMENT

A) WATER CONSERVATION

<u>EMP 1</u>

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.

<u>Compliance</u>

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.

<u>EMP 2</u>

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 water 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

<u>EMP 1</u>

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 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

<u>EMP 2</u>

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.

<u>Compliance</u>

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	d under Pa	aper 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

<u>EMP 1</u>

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.

<u>Compliance</u>

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.





Audit Report (1.SA)

Organisation: TAMILNADU NEWSPRINT AND PAPERS LIMITED - UNIT II

Audits (ZA): 2.5-9347/2019

Master Data of Organisation	n					
Name of Organisation	TAMILNADU NEWSPRINT AND	D PAPERS LIM	ITED – UN	NIT II		
Name of corporate group (in case of multi site organization only)	-					
Street	Multilayer Coated Board Manufa K.Periyapatti Post, Manapparai		, Mondipat	tty,		
Postcode / Town / Country	Tiruchirappalli- 621 306, Tamiln	adu, India				
Contact	Mr. S Narayanan (AGM - QC); <u>r</u> 8300452507 Mr. D.V.S.S.A. Bhanu Prasad; (<u>bhanuprasad@tnpl.co.in</u> ; Mobile:	Chief General N		bile:		
E-Mail	<u>narayanan.s@tnpl.co.in</u> ; Mobile: 8	300452507				
Phone	04332-261600					
System documentation: (Revision / Issue)	IMS/U2/AM & EnMS/U2/AM, Iss 2023	sue # 02, Latest	review on	01-12-		
Shift operation	3-shift operation					
Language	English					
Peculiarities	None	None				
Multi Site Organisation						
Selection of sites to be audited by	y sampling procedure	Yes	No No	🛛 n.a.		
An adequate listing of all sites in a information in each case is part of	the scope(s) including all valid and r f the audit file	elevant	Tes 🗌	⊠ n.a.		
Audit profile			-			
Contract ID (ZE):	2.5-9347					
Standards under contract / Audit type	ISO 9001:2015 1.Surveillance Audit Onsite Audit	ISO 14001:20 ⁴ 1.Surveillance Onsite Audit	Audit			
	ISO 45001:2018 1.Surveillance Audit Onsite Audit	ISO 50001:20 ² 1.Surveillance Onsite Audit				
Surveillance mode	Yearly surveillance					
Audit team leader	S. Senthilvel (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	-					



Audit Report (1.SA)

Organisation: TAMILNADU NEWSPRINT AND PAPERS LIMITED - UNIT II

Audits (ZA): 2.5-9347/2019

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 Mult	ilayer 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 Ur	ncoated 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 Ur	ncoated 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	d 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 uni	nit 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		(incl. remote locations as applicable) inclusive for audit stage 1 (separate report)		



Audit Report (1.SA)

Organisation: TAMILNADU NEWSPRINT AND PAPERS LIMITED - UNIT II

Audits (ZA): 2.5-9347/2019

Application of methods and tools in remote auditing				
Conducted as a remote audit	🖾 No	Partly	Total	
	MS Teams	Cisco WebEx	Zoom	
Technologies used for the remote audit	 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)

The audit was performed applying technology for information and communication ("remote") at 0%.

Effectiveness and efficiency of the remote-part was ensured by

- experienced application of engaged technology;
- the consecutive processing of the single sessions with the individual units;
- the online interviews with different people from diverse units and various hierarchical levels;
- the separation of the audit team in individual online sessions;
- reviewing an adequate sample of documented processes and/or information;
- the discussion of appropriate charts, diagrams, slides or any other relevant information;
- the presentation and discussion of photos, videos and audios of issues, being prepared on detailed guidance and governance of the audit team.

Details about reviewed information or documents, interviewed persons, content of videos & photos etc. are recorded in the report or (handwritten) notes.

If the audit was performed partly remote, the corresponding sessions are identified unambiguously in the audit plan.

Distribution/Confidentiality/Rights of ownership/Limitations/Responsibilities

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.

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.

The responsibility for continuous effective operation of the management system always rests solely with the audited and certified organisation.

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.

Annex/Enclosures

Annex/ corresponding audit documentation

Questionaire(s) / Checklis	st(s)
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Additional annexes, number



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Audit Report (1.SA)

Organisation: TAMILNADU NEWSPRINT AND PAPERS LIMITED – UNIT II Audits (ZA): 2.5-9347/2019

Audit results	6					Table of F	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						
		in accordance to I	SO 170	21:2015			Rslt.*
 internal audits and 	d manage	ment review					1



Organisation: TAMILNADU NEWSPRINT AND PAPERS LIMITED – UNIT II Audits (ZA): 2.5-9347/2019

Audit results						esults	
Error! Referer source not four Error! Referen source not fou	nd. : nce	ISO 14001:20	15	ISO 45001:20)18	ISO 50001:20	18
Clause	Rslt. *	Clause	Rslt. *	Clause	Rslt. *	Clause	Rslt. *
 review of actions ta 	iken on n	onconformities identifie	ed in prev	vious 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 cli	ent's processes					2
review of any change	ges inclu	ding the management	system d	ocumentation			1
use of marks and/o	r any oth	er reference to certifica	ation – us	sed in Letter heads			1
Rslt.* (Result): 0 = not audited; 1 = fulfilled Details: see section "Audit		ally fulfilled/ potential for impr	ovement; 3	= not fulfilled/ nonconformity	/; - = not app	blicable/ excluded.	

Mandatory elements from A00VA02				
Temporary Sites				
a) Are temporary sites (i.e. installation	n sites, project locations etc.) available?	🗌 Yes	🛛 No	
b) If yes: which one are visited?	NA			



Organisation: TAMILNADU NEWSPRINT AND PAPERS LIMITED - UNIT II

Audits (ZA): 2.5-9347/2019

Objective evidences – Not applicable since this is 1. SA	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 a after transferring sites.	audits, e.g. for exte	nsions or			
At least in initial/recertification or extension audits (or when necessary) these o evidences/documents are attached adequately to the audit file and uploaded into the In any other audit it is accepted to record the revision information only.		V.			
Title/Content	Edition	Attached			
Entry in professional or commercial register (or comparable evidence) - if applicable					
Organization chart/evidence of organization					
Company policy for audited management systems					
Overview of management system documentation (e.g. table of contents or presentation of the structure of the management system documentation, process map)					
Result of management review (e.g. cover sheet or table of contents with date and signature)					
Current annual planning of internal audits and evidence of audit report(s) (e.g.: cover sheet with date and signature)					
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)					
Confidential information in the attached	evidences may b	e 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



Audit Report (1.SA) Organisation: TAMILNADU NEWSPRINT AND PAPERS LIMITED – UNIT II Audits (ZA): 2.5-9347/2019

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, detrashed, 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 id 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;



Organisation: TAMILNADU NEWSPRINT AND PAPERS LIMITED – UNIT II Audits (ZA): 2.5-9347/2019

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 LISENCE, FACTORY LISENCE AND HAZARDOUS WASTE AUTHORIZATION RENEWAL APPLICATION VERIFIED



Organisation: TAMILNADU NEWSPRINT AND PAPERS LIMITED - UNIT II

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- **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 mItigation 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 Validy verified.

STATEMENT ON THE AUDIT PARTICIPATION DURING CLOSING MEETING-



Organisation: TAMILNADU NEWSPRINT AND PAPERS LIMITED – UNIT II

Audits (ZA): 2.5-9347/2019

- 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 onsite inspection and examination of documented information on a random sample basis.

Audit	Audit findings				
Notes fo	Notes for the findings				
The eval	uation of the audit findings ba	asically follows the scheme shown below:			
Stage	Stage Classification Meaning				
NC A	Major Nonconformity (Nonconformity A "major")	 Nonconformities could be classified as major in the following circumstances: 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).			
СМ	Comments	Special situation and information to be traced in next audit.			



Organisation: TAMILNADU NEWSPRINT AND PAPERS LIMITED - UNIT II

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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 honcomormides					
Standard	Raised i	Raised in this 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		
\Box At least one of the nonconformities is g	graded as "generic" a	and is counted in m	ore than one		

Summary for nonconformities

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		ISO 9001:2015 Clause # 7.1.3



Organisation: TAMILNADU NEWSPRINT AND PAPERS LIMITED – UNIT II

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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	Continual improvement	ISO 50001:2018 Clause # 10.2
	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%		

No	CM (Comment)	Area / Process	Standard: clause
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Organisation: TAMILNADU NEWSPRINT AND PAPERS LIMITED - UNIT II

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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	\boxtimes	\boxtimes	\boxtimes	\boxtimes		
Open nonconformities						
Not fulfilled						
Recommendations of audit team	ISO 9001:2015	ISO 14001:2015	ISO 45001:2018	ISO 50001:2018		
Grant*/ Extension*/ Renewing*						
Maintenance*	\boxtimes	\boxtimes	\boxtimes	\boxtimes		
Suspension						
Restoring						
Refuse						
Withdrawal						
^{*)} 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-ce Restoring: End of the temporary invalidity of certific	ertification. ate after the suspe	nsion or after delay	ed re-certification.			



Organisation: TAMILNADU NEWSPRINT AND PAPERS LIMITED - UNIT II

Audits (ZA): 2.5-9347/2019

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 JINUCHIRAGACLI TUESDAY, MAY 28, 2019

TAMILNADU NEWSPRINT AND PAPERS LIMITED Unit II – Mondipati , Manapparai Taluk, Trichy District, Tamil Nadu, INDIA Prions : 04332-261600 – e-Mail : <u>pmd@tnpl.co.in</u>

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) RR/440/Display/2019 al bagaise ba

தினத்தந்தி

28-5-2019

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Siges u	MIGLELLÜ) 	மணப்பாறை எத்தில்கு ந	ையிட்டம் _! சொழிக்கார்		
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துலகு ப 	a Beoleo	ப் பருவதினை	യ്യാലം പ്രസ്ത്രം തിരും	1. 14 1. 14	a dhù
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	New Dalk	SIF more A	സ്തർ 2019 ()	ക്കിറിപ്പി	AL COM
(MoEFCC	New Delhi)", தனது 4	ஏப்ரல் 2019 இ	ததிப் ட்ட	Time
(MoEFCC மூலம் சுற்றுச்	New Delhi Capit App)'', தனது 4 மதிவழங்கியு	ரப்ரல் 2019 மே களது என அ	ததியிட்ட நிவிக்கப்ப	ஆண டுகிற
(MoEFCC மூலம் சுற்றுச் மேற்பட அடி	New Delhi சூழல் அனு கையின் ந)", தனது 4	ரப்ரல் 2019 0 ள்ளது என அ) மாச் சுட்டுப்	த்திறிட்ட றிவிக்கப்ப பாடு வா	ஆணை படுகிற ரியத்த



ICSI NATIONAL AWARD FOR EXCELLENCE IN CORPORATE GOVERNANCE (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,

வட்டார வளர்ச்சி அறுவலர் (ஊராட்சி) மணப்பாறை

(KUSHAL PAL SINGH) CHIEF GENERAL MANAGER (BOARD PLANT)

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



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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.

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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)

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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.

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For TAMIL NADU NEWSPRINT AND PAPERS LIMITED,

(KUSHAL PAL SINGH) CHIEF GENERAL MANAGER (BOARD PLANT)

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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



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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.

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Thanking you

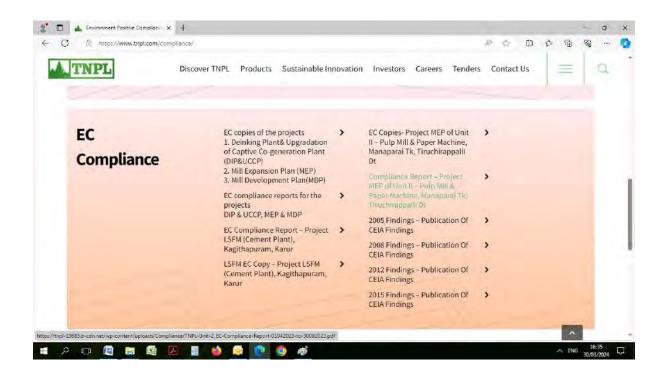
Yours Faithfully, For TAMIL NADU NEWSPRINT AND PAPERS LIMITED,

(KUSHAL PAL SINGH) CHIEF GENERAL MANAGER (BOARD PLANT)

வட்டார வளிச்சி அலுவலர் (ஊராட்ச்டு பணப்பாறை

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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.

ashboar	d Environment Cléarance -	Forest Clearance * Wildlife	Slearance - CR	Z Cleatance	- Go Ta Hor	ne Logout We	loome D.V.	S.S.A. Bhanu	Prasad , Pr	oject Pra	ope
			List of Upload	led Compl	iances						
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	1A/TN/IND/88943/2013	EC/M/COMPLIANCE/20354229/2024	TAMIL NADU	2024	01 Jun(01 Oct - 31	Submission of six monthly compliance	28-05- 2024	Under Examination	View Re	pon	
	Mill Expansion Plan of Unit-2 Installation of Paper Machine Pulp Mill, ChemicalRecovery Island, and Augmentation of Co- Generation Plant and utilities at TNPL: Unit2, Mondipatti, Trichy	SW/88939/2018	Mar) report for the conditions stipulated in EC accorded by MOEPCC for the period from October 2023 for March 2024	939/2018 TIRUCHIRA/PRALLI conditions stipulated in EC accorded by MORECC for the period from October 2021 to	ALL Mar) report for the conditions structured in FC accorded by MOEFCC for the period from October 2023 to				View Do	actantione:	
2	IA/TN/IND/88946/2013	EC/M/COMPLIANCE/17360810/2023	TAMIL NACU	2023	01 Dec(01 Apr - 30	Submission of six monthly compliance	28-10- 2023	Submitted Successfully	View Re	pont	
	Mill Expansion Plan of Unit-2, Installation of Paper Machine, Pulp Mill, ChemicalRecovery Island, and Augmentation of Co- Generation Plant and willities at TNPL, Unit2, Mondipatti, Trichy,	\$W/88939/2018	TIRUCHIRAPPALLI		Sep)	report for the conditions stipulated in EC accorded by MOEFCC for the period from April? 23 to September?23			(View Do	сартары	





(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

То

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





(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

То

The District Environmental Engineer, Tamil Nadu Pollution Control Board, 25, SIDCO Developed Plot Estate, Thuvakudy, Trichy – 620 105.

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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 : 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









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



	FO	PRM - V						
((See Rule: 14)							
Environmental Audit Report for t	he f	inancial year ending the 31 st March 2024						
	PAR	<u>RT – A</u>						
(i) Name and address of the		TAMIL NADU NEWSPRINT AND PAPERS						
Owner/occupier of the	:	LIMITED - UNIT II.						
Industry,		Mondipatti village, K.Periyapatti post,						
operation or process		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	:	200000 MT/Annum						
Paper Board								
b) Elemental Chlorine Free	:	140000 MT/Annum						
(ECF) Chemical Wood Pulp								
c) Power Generation	:	50MW						
d) Steam	:	180TPH						
(iv) Year of establishment		Japuany 2016						
	:	January 2016						
(v) Date of the last environmental								
statement submitted	:	27.09.2023						



<u> PART - B</u>

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	204
4.	Water used for Cooling purpose	KL/day	284
5.	Domestic Water	KL/day	21



	Name of Product		(e)	Process Water consumption (except Domestic) per unit (MT) of products				
			During the last financia year (2022-2023) (1)			During the current financia year (2023-2024) (2)		
	Double Coated Multilayer Paper Board		18.0 M3 /MT			16.8 M3 /MT		
(ii) F	RAW M	ATERIAL CONSU	ΜΡΤΙΟ	N				
					Со	nsumption of per unit of		
	SI. Name of the ra No material		aw Name of Products		Fir	ing the Last nancial year (2022-23)	During the current Financial year (2023-24)	
ſ		Unit of meas	ureme	ent	AC	DMT/MT of Pa	per Produced	
	1.	Wood				4.375	4.392	
-	2.	Own Hardwood P	ulp			0.581	0.640	
	3.	Imported Hardwo Sulphate Pulp	od			0.030	0.000	
+	4.	Imported Softwoo Sulphate Pulp	od	Double		0.018	0.023	
Ī	5.	Imported BCTM P	ulp	Coated Multilayer		0.324	0.293	
	6.	Hardwood Wet la	Hardwood Wet lap Pulp			0.001	0.003	
	7.	Bagasse Wet lap	Pulp			0.001	0.000	
-	8.	Imported Waste F	Paper			0.007	0.000	
	9.	Indigenous Waste Paper	<u>;</u>			0.002	0.000	

PRODUCTS MANUFACTURED

Double Coated Multilayer Paper Board : 195437 MT

Overall daily average Power Production : 13.49 MW



<u> PART – C</u>

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/I) except % sodium	Percentage variation from prescribed in discharges standards with reasons
	TSS	0.3	0.6	39	Nil
	TDS	14.6	27.3	1844	Nil
	COD	0.7	1.4	94	Nil
Water	BOD	0.1	0.2	15	Nil
water	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 E	Total Effluent quantity generated		8588		
Total E	ffluent quantity treated	KL/day	8338		
Process	Evaporation Loss	KL/day	250		
Combir	ned treated Trade Effluent (On Land for irrigation)	KL/day	7933		
Combir	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 NoType of Fuel: Black Liquor solids & Furnace OilType of Firing: Black Liquor spray Guns

Stack attached to Recovery Boiler

Prescribed Norms: PM - 100 mg/NM³; SO2 - 600 mg/NM³; NOx - 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

Type of Fuel

: Furnace Oil

: 1 No

Type of Firing : Oil Burner

Stack attached to Lime Kiln

Prescribed Norms: PM - 150 mg/NM³; SO2 - 400 mg/NM³; NOx - 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
- Type of Fuel: Coal, Raw Lignite and Wood DustType of Firing: Under Bed and Over Bed firing

: 2

Stack attached to: Power Boiler

Prescribed Norms: SPM - 50 mg/NM³; SO2 - 600 mg/NM³; NOx - 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

	TOTAL QUANTITY in MT		
Name of Hazardous Wastes	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

	TOTAL QUANTITY in MT	
Name of Hazardous Wastes	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



<u> PART – E</u>

Solid Wastes Generation

DESCRIPTION	TOTAL QUA	NTITY in MT
Solid wastes generation	During the last financial year 2022 - 2023	During the current financial year 2023 - 2024
(a) From Process	<u>.</u>	L
Plastic Wastes From Board Plant	102.28	Nil
Wood Dust from wood handling Plant	15967	28465
Lime Grits	Nil	2299
(b) From Pollution Contro	ol Facility	
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
(c) Solid Wastes Recycled/ Dispose	ed / Sold Quanti	ty
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



<u> PART – F</u>

The characteristics of solid as well as Hazardous wastes and disposal practice adopted are given below.

Solid wastes

SI. 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



SI. 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

SI 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 Chetttichatram & 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

SI. 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	Azadircta 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

SI. 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 Chetttichatram & 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	Croscentia 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



<u> PART – H</u>

Additional measures / Investment proposals for Environmental Protection including Abatement of Pollution, Prevention of Pollution

Implementation Of Kurunkadugal- Karnampatti, Vadaseri Village

SI. Name No. Address unit	and of the	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 Newsprint Paper Li Unit-II Mondipatt Village, Manappara Tiruchchira 621306	mited, i ai,	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) IndianElm (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





Implementation of Kurunkadugal at Karanampatti









World Environment Day was celebrated on 05th June 2023 by fixing Banners at the entrance gates of the mill. Pledge was taken by all the employees and workers in their respective departments to create awareness.







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 Kaliamman 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 Kaliamman temple at Ponnampatti village.

Total Expenses: 2.383 Lakhs



-----END OF THE REPORT----

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.	The following machineries have been installed under Phase I of the Expansion activity and are being operated and maintained.
		 ECF Hardwood Pulpmill of capacity 1,65,000 TPA . Recovery plant including Recovery Boiler to fire 1100 TPD of black liquor solids
		3. Lime Kiln of capacity 250 TPD Further, the details of APC measures are submitted along with the compliance report.
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.	Scrubber System in Pulp Section: DNCG Scrubber : 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.

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

S.No	Additional Specific Condition	Compliance Details
		The scrubbed gases from DNCG scrubber is fired in the Chemical Recovery Boiler. Bleach Plant Scrubber: Bleach plant scrubbing system is installed and in operation to absorb both chlorine and chlorine dioxide vapours from bleach plant.
		Scrubber System in Chemical Recovery Section: Primary and secondary venturi scrubbers are installed to control emissions from chemical recovery boiler.
		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.
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 15.07.2022

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

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

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 he 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 ear marked/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 ubmitted along with the compliance report.
13	The unit's activity shall not invite any public complaint.	TNPL abides to this condition.

S.N	Additional Specific Condition	Compliance Details
0	_	
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

S.N	Additional Specific Condition	Compliance Details
0		
		 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.

S.N	Additional Specific Condition	Compliance Details
0		
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

S.N	Additional Specific Condition	Compliance Details
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		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.

S.N	Additional Specific Condition	Compliance Details
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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.	 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

S.N	Additional Specific Condition	Compliance Details
0		
		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).

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.NoJ-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 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
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.	site. (www.tnpl.com). 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.

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/Nm3.	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		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.

S.No	Additional Condition	Compliance Details
		Closed hoods for coal conveyors
		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.
		Mobile road dust cleaning machines is employed to collect coal fines.

S.No	Ad	ditional Condition	Compliance Details
11	foll	e Unit shall operate and maintain the owing measures for control of itive emission.	TNPL operates and maintain the following measures for control of fugitive emission.
	Coal handling plant:		Coal handling plant:
	a.	To store the coal in a complete closed shed to reduce the emission due to wind.	a. Coal is being stored only in a closed impervious Shed.
	b.	Totally enclosed coal conveyors to prevent wind erosion.	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 at various dust emanating sources such as coal crusher, coal bunker, ash silo and all transfer points.	c. Dust extraction systems are available at transfer points & the given dust emanating sources.
	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.	d. Manual water Sprinklers, are operated in coal storage area and open area in Coal Yard.
	Asł	handling plant:	
	a.	Dust collectors at various 'places such as Electro Static Precipitators, Air pre heater, Economizers. Etc	
	b.	The total dust collection system should be a closed one to prevent	

S.No	Additional Condition	Compliance Details
5.140	exposure of fly ash to atmosphere . c. The dry fly ash loading system for ash silos to load the closed vehicle for transportation to cement plant	compliance becaus compliance becaus e. closed belt conveyors are being used to transport coal from stock yard to existing boiler. Corret transfer of coal between conveyors f. Concrete roads are provided to avoid dust emission due to vehicular movements. Corret in the stock of /b>
		b. All the Dust collection systems are closed to

S.No	Additional Condition	Compliance Details
		prevent exposure of fly ash to atmosphere.
		 c. Fly ash transportation to cement plants being done only through closed bunkers.
12	The unit shall maintain the CO detection	CO detection system is provided at coal yard
	mechanism provided at the coal yard	and is connected with Care Air Centre of
	and connected with Care Air Centre of	TNPCB, Guindy and provides proper data all
	TNPCB, Guindy. Chennai and provide	times. Screenshot depicting the same is given
	proper data at all times.	below.

S.No	Additional Condition	Compliance Details
	Invertion X Invertion X Invertion X Invertion Invertion Invertion X Invertion Inv	k Flow 🖬 🛃 🙏 MTTNA + O Reports
13	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 compliance report.
14	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.	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.
15	The unit shall always comply with the EMP as reported in the EIA study report.	Compliance to the EMP as reported in the EIA study report is submitted along with compliance report.

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.

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.	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 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).
2	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. Steam - 180 TPH 2. Power Generation - 50 MW 3. Trade Effluent - 640 KLD 4. 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.	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.
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

	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. 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.

	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, are ca 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.