

Tamil Nadu Newsprint and Papers Limited

(A Government of Tamil Nadu Enterprise)

Kagithapuram - 639 136, Pugalur Taluk, Karur Dist. Tamil Nadu, India.

Phone: (0091) 04324-277001 to 10 - (10 Lines) Cell : 94860 41341 to 41343

ENV/Cement/2024

November 25, 2024

Addl. Principal Chief Conservator of Forests (C),
Ministry of Env., Forest and Climate Change
Integrated Regional Office, 1 floor, Additional Office Block for GPOA,
Shastri Bhawan, Haddows Road, Nungambakkam, Chennai 600 006

Dear Sir,

Sub: Submission of six monthly compliance reports for the conditions stipulated in the Environmental clearances (EC)-Reg.

Ref: (i) SEIAA- TN/ F- 3082/KAR/ 3(b)/EXP/EC – 8/2014 dated 12.03.2015
(ii) SEIAA/TN/ EC/ 3(b) 005/F-166/2010 dated 21/05/2010

This refers to the ECs issued for TNPL for the for the project of modernization/ Upgradation of TNPL Mini Cement Plant and Installation of TNPL Mini Cement Plant vide reference ref (i) and ref (ii) respectively.

In compliance to the general condition stipulated in the respective ECs, the six monthly compliance reports against the special and general conditions stipulated in the ECs for the period between 01/04/2024 and 30/09/2024 are submitted herewith as detailed below:

Sl No	Project file No./ Date	Name of the project	Remarks
01	SEIAA- TN/ F- 3082/KAR/ 3(b)/EXP/EC – 8/2014 dated 12.03.2015	modernization/upgradation of TNPL mini Cement Plant, Kagithapuram for enhancement of cement production capacity from 0.22 MTPA (600 TPD) to 0.33 MTPA (900 TPD).	A copy of the EC compliance report along with relevant annexure enclosed

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

TNPL – MAKER OF BAGASSE BASED ECO – FRIENDLY PAPER



Sl No	Project file No./ Date	Name of the project	Remarks
02	SEIAA/TN/ EC/ 3(b) 005/F-166/2010 dated 21/05/2010	Installation of TNPL mini Cement Plant, Kagithapuram for cement production capacity 0.22 MTPA (600 TPD).	A copy of the EC compliance report along with relevant annexure enclosed.

This is for your kind information and records.

Thanking You.

Yours faithfully,

For Tamilnadu Newsprint and Papers Limited,


Deputy General Manager (ENV)

- CC:
- (1) The Member Secretary, SEIAA, Saidapet, Chennai – 600 005.
 - (2) The Member Secretary, TNPCB, Guindy, Chennai.
 - (3) The Regional Directorate, CPCB, Chennai.
 - (4) The Joint Chief Environmental Engineer, TNPCB, Trichy.
 - (5) The District Environmental Engineer, TNPCB, Karur

DETAILS OF ANNEXURES		
DESCRIPTION		
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2	ANNEXURE 1 A	TNPCB ROA FOR AAQMS MEASUREMENTS.
3	ANNEXURE 2 A	EXTERNAL AGENCY TEST REPORT - AAQMS.
4	ANNEXURE 2 B	EXTERNAL AGENCY TEST REPORT - STACK.
5	ANNEXURE 2 C	EXTERNAL AGENCY TEST REPORT - NOISE.
6	ANNEXURE 2 D	EXTERNAL AGENCY TEST REPORT - FUGITIVE EMISSION.
7	ANNEXURE 2 E	EXTERNAL AGENCY TEST REPORT - RAW WATER.
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19	ANNEXURE 12	ENVIRONMENTAL CLEARANCE.
20	ANNEXURE 13	COPY OF CTO.
21	ANNEXURE 14	SUBMISSION OF SIX MONTHLY REPORT DETAILS.
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Report No.DEL/DGL/29

TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Dindigul.

STACK MONITORING SURVEY - Report of Analysis

Report No.TNPCB/DEL/DGL/F.No.72/SM/2024-2025, Dated:24.09.2024


1. Name of the Industry : M/s. Tamilnadu News Print and Papers Ltd.,
2. Address of the Industry : LSFM Cement Plant Division,
Kagithapuram- 639 136,
Karur District.
3. Date of survey : 19.08.2024 & 20.08.2024

Stack Monitoring Survey Results

Sl. No	Stack attached to	Stack Temp °C	Velocity in (m/sec)	Discharge rate in (Nm ³ /Hr)	Pollutants (mg/Nm ³)		
					PM	SO ₂	NO _x
1.	Coal Mill	49	10.6	17,711	22	4.3	164
2.	Clinker Cooler ESP	154	12.3	55,098	06	3.2	75
3.	Raw Mill Kiln	168	11.2	86,654	09	23	256
4.	Cement Mill	68	10.9	27,000	07	-	-
5.	Packing Plant	61	9.7	15,522	11	-	-
6.	Limestone Secondary Crusher - I	56	9.6	12,559	12	-	-
7.	Limestone Secondary Crusher - II	58	9.7	20,314	15	-	-
8.	Primary Crusher (Lime stone crusher)	40	9.4	5,417	08	-	-

End of the report


24/09/2024
Environmental Scientist


Deputy Chief Scientific Officer,
DEL, TNPCB, Dindigul. 29/09/24



Report No.DEL/DGL/29

TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Dindigul.

AMBIENT AIR QUALITY SURVEY - Report of Analysis.

Report No. F.No.72/TNPCB/DEL/DGL/AAQS/2024-2025, Dated: 24.09.2024

1. Name of the Industry : M/s. Tamilnadu News Print and Papers Ltd.,
2. Address of the Industry : LSFM Cement Plant Division,
Kagithapuram- 639 136.
Karur District.
3. Date of Survey : 19.08.2024 & 20.08.2024
4. Duration of Survey : 24 Hrs.
5. Category : Red - Large.
6. Land use classification : Industrial
7. Type of Industry : Cement Plant

Meteorological Conditions


Ambient Temperature (°C)	Min	Max	Relative Humidity (%)	Min	Max
	24°C	34°C		53%	76%
Weather Condition	Partially Cloudy		Rain Fall (mm)	----	
Predominant Wind Direction	SW → NE		Mean Wind Speed (Km/hr)	9.1 Km/hr.	

Ambient Air Quality Survey Average Results (24 Hrs)

Sl. No	Location	Direction *	Distance (m) *	Height from GL	Pollutants Concentration (µg/m ³)			
					PM _{2.5}	PM ₁₀	SO ₂	NO ₂
1	On top of the scaffolding at unit's Lime stone stock yard.	NE	250	3	38	78	17	23
2	On top of Thiru.P.Nachimuthu House, Door No.26, Colony, Moorthipalayam,	E	700	4	-	69	15	20
3	On top of Thiru.P.K.Periyasamy House, Door No.5/75, Thathampalayam.	SE	700	4	-	55	14	19
4	On top of scaffolding in open area near two wheelers parking area at unit premises.	SW	150	4	17	46	12	18
5	On top of Thiru. A.Sakthivel House, Door No.7, Nattukkal - 5 th street, Moolimangalam.	W	400	4	-	53	13	18
6	On top of scaffolding near TNPL Water Reservoir BR-3, Pump House.	NW	800	4	-	66	15	19

Note: All the values are restricted to the sampling period of 08.00 Hrs Average of 24.00 Hours
End of the report


24/09/2024
Environmental Scientist


S.M. A. Tharun
Deputy Chief Scientific Officer 27/09/24.
DEL, TNPCB, Dindigul.

CIN: U93000TN2000PTC043869

TEST REPORT

Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address Kagithapuram - 639 136,
Karur District, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality
Sampling Location Lime Stone Stock Yard at LSFM Unit
Sampling Plan & Procedure CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No Each

Test Results:

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

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS						NAAQS*
				SAMPLING DATE						
				23.04.2024 to 24.04.2024	21.05.2024 to 22.05.2024	25.06.2024 to 26.06.2024	29.07.2024 to 30.07.2024	29.08.2024 to 30.08.2024	25.09.2024 to 26.09.2024	
1	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 14 - 2019	µg/m ³	37.2	28.5	40.5	35.0	32.4	34.2	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	76.4	59.2	85.1	76.8	69.0	73.5	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	11.2	10.4	13.7	13.1	12.5	13.5	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	24.6	21.8	28.0	25.6	23.0	27.0	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	38.6	26.2	41.5	37.2	32.0	33.0	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BLQ(LOQ:0.05)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BLQ(LOQ:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	27.5	22.5	30.2	26.7	21.2	25.4	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BLQ(LOQ:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BLQ(LOQ:2.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BLQ(LOQ:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BLQ(LOQ:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	BDL(DL:6.0)	BDL(DL:6.0)	BDL(DL:6.0)	BDL(DL:6.0)	BLQ(LOQ:6.0)	-
14	MERCURY (Hg)*	CTL/SOP/AIR/25-2016	µg/m ³	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BLQ(LOQ:0.01)	-

*National Ambient Air Quality Standards - CPCB. *Not in NABL Scope

BDL - Below Detection Limit(D.L - Detection Limit); BLQ-Below Limit Of Quantification; LOQ-Limit Of Quantification;

END OF REPORT

Verified by

For Chennai Testing Laboratory Pvt Ltd

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

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CIN: U93000TN2000PTC043869

TEST REPORT

Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address Kagithapuram - 639 136,
 Karur District, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality
Sampling Location Mr. P. Nachimuthu House, Moorthipalayam
Sampling Plan & Procedure CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No Each

Test Results:

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

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS						NAAQS*
				SAMPLING DATE						
				23.04.2024 to 24.04.2024	22.05.2024 to 23.05.2024	26.06.2024 to 27.06.2024	30.07.2024 to 31.07.2024	29.08.2024 to 30.08.2024	25.09.2024 to 26.09.2024	
1	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 14 - 2019	µg/m ³	18.5	17.9	23.0	20.0	18.7	17.5	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	49.6	42.1	54.2	45.7	44.1	41.1	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	5.7	4.3	6.8	6.5	5.7	3.6	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	12.6	10.1	14.0	13.0	11.5	8.5	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	19.3	17.5	18.8	22.0	16.2	BLQ(LOQ:5.0)	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BLQ(LOQ:0.05)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BLQ(LOQ:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	7.5	9.7	14.2	11.5	8.5	BLQ(LOQ:5.0)	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BLQ(LOQ:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BLQ(LOQ:2.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BLQ(LOQ:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BLQ(LOQ:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	BDL(DL:6.0)	BDL(DL:6.0)	BDL(DL:6.0)	BDL(DL:6.0)	BLQ(LOQ:6.0)	-
14	MERCURY (Hg)*	CTL/SOP/AIR/25-2016	µg/m ³	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BLQ(LOQ:0.01)	-

*National Ambient Air Quality Standards - CPCB. *Not in NABL Scope

BDL - Below Detection Limit(D.L - Detection Limit); BLQ-Below Limit Of Quantification; LOQ-Limit Of Quantification;

END OF REPORT


Verified by

For Chennai Testing Laboratory Pvt Ltd


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

Page 1 of 1

CIN: U93000TN2000PTC043869

TEST REPORT

Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address Kagithapuram - 639 136,
Karur District, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality
Sampling Location Mr. P.K. Periyasamy House, Thathampalayam
Sampling Plan & Procedure CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No Each

Test Results:

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

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS						NAAQS*
				SAMPLING DATE						
				23.04.2024 to 24.04.2024	22.05.2024 to 23.05.2024	26.06.2024 to 27.06.2024	30.07.2024 to 31.07.2024	29.08.2024 to 30.08.2024	25.09.2024 to 26.09.2024	
1	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 14 - 2019	µg/m ³	19.7	17.7	23.7	17.0	20.0	19.4	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	47.5	40.6	55.4	42.0	48.0	45.3	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	5.1	3.9	7.0	3.4	7.0	5.7	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	11.3	8.8	15.1	7.5	14.5	11.5	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	BDL(DL:5.0)	BDL(DL:5.0)	20.2	BDL(DL:5.0)	17.0	10.1	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BLQ(LOQ:0.05)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BLQ(LOQ:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	BDL(DL:5.0)	BDL(DL:5.0)	11.1	BDL(DL:5.0)	10.2	7.2	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BLQ(LOQ:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BLQ(LOQ:2.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BLQ(LOQ:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BLQ(LOQ:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	BDL(DL:6.0)	BDL(DL:6.0)	BDL(DL:6.0)	BDL(DL:6.0)	BLQ(LOQ:6.0)	-
14	MERCURY (Hg)*	CTL/SOP/AIR/25-2016	µg/m ³	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BLQ(LOQ:0.01)	-

*National Ambient Air Quality Standards - CPCB. *Not in NABL Scope

BDL - Below Detection Limit(D.L - Detection Limit); BLQ-Below Limit Of Quantification; LOQ-Limit Of Quantification;

END OF REPORT


Verified by

For Chennai Testing Laboratory Pvt Ltd


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

Page 1 of 1

CIN: U93000TN2000PTC043869

TEST REPORT

Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address Kagithapuram - 639 136,
 Karur District, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality
Sampling Location Two Wheeler Parking Area at LAFM Unit
Sampling Plan & Procedure CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No Each

Test Results:

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

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS						NAAQS*
				SAMPLING DATE						
				23.04.2024 to 24.04.2024	21.05.2024 to 22.05.2024	25.06.2024 to 26.06.2024	29.07.2024 to 30.07.2024	29.08.2024 to 30.08.2024	25.09.2024 to 26.09.2024	
1	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 14 - 2019	µg/m ³	32.8	28.7	36.8	33.7	34.2	33.5	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	71.5	60.5	79.7	70.1	73.4	71.2	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	13.2	11.4	13.9	11.7	14.2	12.4	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	26.8	24.1	28.0	23.0	29.0	23.0	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	45.0	22.8	41.5	37.0	36.5	32.1	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BLQ(LOQ:0.05)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BLQ(LOQ:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	23.2	17.4	26.7	25.0	29.1	24.5	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BLQ(LOQ:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BLQ(LOQ:2.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BLQ(LOQ:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BLQ(LOQ:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	BDL(DL:6.0)	BDL(DL:6.0)	BDL(DL:6.0)	BDL(DL:6.0)	BLQ(LOQ:6.0)	-
14	MERCURY (Hg)*	CTL/SOP/AIR/25-2016	µg/m ³	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BLQ(LOQ:0.01)	-

*National Ambient Air Quality Standards - CPCB. *Not in NABL Scope

BDL - Below Detection Limit(D.L - Detection Limit); BLQ-Below Limit Of Quantification; LOQ-Limit Of Quantification;

END OF REPORT

Verified by

For Chennai Testing Laboratory Pvt Ltd

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

Page 1 of 1

CIN: U93000TN2000PTC043869

TEST REPORT

Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address Kagithapuram - 639 136,
Karur District, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality
Sampling Location Mr.A. Sakthivel House, Moolimangalam
Sampling Plan & Procedure CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No Each

Test Results:

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

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS						NAAQS*
				SAMPLING DATE						
				23.04.2024 to 24.04.2024	22.05.2024 to 23.05.2024	26.06.2024 to 27.06.2024	30.07.2024 to 31.07.2024	29.08.2024 to 30.08.2024	25.09.2024 to 26.09.2024	
1	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 14 - 2019	µg/m ³	16.4	19.1	25.1	24.7	22.5	23.4	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	46.5	43.2	58.0	56.0	53.0	55.1	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	4.8	4.2	7.8	7.1	6.7	7.9	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	8.3	9.1	16.2	14.5	13.0	16.4	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	BDL(DL:5.0)	BDL(DL:5.0)	22.4	20.0	18.2	21.8	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BLQ(LOQ:0.05)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BLQ(LOQ:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	BDL(DL:5.0)	BDL(DL:5.0)	12	10.0	12.5	15.4	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BLQ(LOQ:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BLQ(LOQ:2.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BLQ(LOQ:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BLQ(LOQ:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:6.0)	BDL(DL:6.0)	BDL(DL:6.0)	BDL(DL:6.0)	BDL(DL:6.0)	BLQ(LOQ:6.0)	-
14	MERCURY (Hg)*	CTL/SOP/AIR/25-2016	µg/m ³	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BLQ(LOQ:0.01)	-

*National Ambient Air Quality Standards - CPCB. *Not in NABL Scope

BDL - Below Detection Limit(D.L - Detection Limit); BLQ-Below Limit Of Quantification; LOQ-Limit Of Quantification;

END OF REPORT


Verified by

For Chennai Testing Laboratory Pvt Ltd


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

Page 1 of 1

CIN: U93000TN2000PTC043869

TEST REPORT

Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED (LSFM PLANT),
Address Kagithapuram - 639 136,
Karur District, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality
Sampling Location TNPL Water Reservoir BR-3
Sampling Plan & Procedure CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No Each

Test Results:

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

SLNO	PARAMETERS	METHODS	UNITS	RESULTS						NAAQS*
				SAMPLING DATE						
				23.04.2024 to 24.04.2024	22.05.2024 to 23.05.2024	26.06.2024 to 27.06.2024	29.07.2024 to 30.07.2024	29.08.2024 to 30.08.2024	25.09.2024 to 26.09.2024	
1	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 24 - 2019	µg/m ³	34.6	22.2	29.7	22.7	26.1	25.0	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	70.5	48.6	60.0	55.1	58.2	56.2	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	12.5	8.9	10.0	8.4	10.4	9.5	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	24.7	17.2	23.5	19.0	21.0	20.0	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	30.0	21.4	27.6	23.5	27.5	26.1	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004 (R.2019)	µg/m ³	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BLQ(LOQ:0.05)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BLQ(LOQ:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 Part 25 - 2018	µg/m ³	20.8	19.6	22.0	17.1	21.5	18.4	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BLQ(LOQ:1.0)	6
10	NICKEL (Ni)	IS 5182 Part 26 - 2020	ng/m ³	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BLQ(LOQ:2.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006 (R.2017)	µg/m ³	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BLQ(LOQ:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004 (R.2019)	ng/m ³	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BLQ(LOQ:0.5)	1
13	HYDROGEN SULPHIDE(H ₂ S)	IS 5182 PART 07 - 2021	µg/m ³	BDL(DL:8.0)	BDL(DL:8.0)	BDL(DL:8.0)	BDL(DL:8.0)	BDL(DL:8.0)	BLQ(LOQ:8.0)	-
14	MERCURY (Hg) ⁺	CTL/SOP/AIR/25-2016	µg/m ³	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BLQ(LOQ:0.01)	-


*National Ambient Air Quality Standards - CPCB, *Not in NABL Scope

BDL - Below Detection Limit(D.L - Detection Limit); BLQ-Below Limit Of Quantification; LOQ-Limit Of Quantification;

END OF REPORT


Verified by

For Chennai Testing Laboratory Pvt Ltd


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

Page 1 of 1

CIN: U93000TN2000PTC043869

TEST REPORT

Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address Kagithapuram - 639 136,
Karur District, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Stack Emission
Sample Description Stack Emission
Sampling Location Stack attached with Lime Stone Primary Crusher
Sampling Plan & Procedure CTL/QSP/F-89 & IS 11255
Sample Quantity 1 No

Test Results:

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

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS						LIMITS (as per EC condition)
				SAMPLING DATE						
				24.04.2024	-	25.06.2024	31.07.2024	-	26.09.2024	
1	STACK TEMPERATURE	IS 11255 PART 3 2008	°C	41.0	-	39.0	37.0	-	38.0	-
2	STACK VELOCITY	IS 11255 PART 3 2008	m/s	12.0	-	12.3	12.1	-	11.2	-
3	STACK GAS FLOW RATE	IS 11255 PART 3 2008	Nm ³ /hr	6801.5	-	6993.4	6902.9	-	6389.5	-
4	OXIDES OF NITROGEN NO _x (as NO ₂)	IS 11255 PART 7 2005 (R 2017)	mg/Nm ³	BDL(DL:5.0)	-	BDL(DL:5.0)	BDL(DL:5.0)	-	BLQ(LOQ:5.0)	NA
5	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985 (R 2019)	mg/Nm ³	BDL(DL:3.0)	-	BDL(DL:3.0)	BDL(DL:3.0)	-	BLQ(LOQ:3.0)	NA
6	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985 (R 2019)	mg/Nm ³	24.6	-	22.5	26.8	-	24.1	30
7	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	mg/Nm ³	BDL(DL:5.0)	-	BDL(DL:5.0)	BDL(DL:5.0)	-	BLQ(LOQ:5.0)	NA
8	ARSENIC (As)*	EPA Method 29	mg/Nm ³	BDL(DL:0.01)	-	BDL(DL:0.01)	BDL(DL:0.01)	-	BLQ(LOQ:0.01)	NA
9	MERCURY (Hg)*		mg/Nm ³	BDL(DL:0.01)	-	BDL(DL:0.01)	BDL(DL:0.01)	-	BLQ(LOQ:0.01)	NA

*Air Pollution Control Measures, *Not in NABL Scope

BDL- Below Detection Limit, D.L-Detection Limit, NA - Not Available, BLQ - Below Limit Of Quantification; LOQ - Limit Of Quantification

END OF REPORT


Verified by

For Chennai Testing Laboratory Pvt Ltd


Authorised Signatory

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 1 of 1

CIN: U93000TN2000PTC043869

TEST REPORT

Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address Kagithapuram - 639 136,
Karur District, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Stack Emission
Sample Description Stack Emission
Sampling Location Stack attached with Kiln Raw Mill (RABH)
Sampling Plan & Procedure CTL/QSP/F-89 & IS 11255
Sample Quantity 1 No

Test Results:

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

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS						LIMITS (as per EC condition)
				SAMPLING DATE						
				24.04.2024	-	26.06.2024	30.07.2024	-	25.09.2024	
1	STACK TEMPERATURE	IS 11255 PART 3 2008	°C	167.0	-	176.0	145.0	-	95.0	-
2	STACK VELOCITY	IS 11255 PART 3 2008	m/s	10.6	-	11.7	11.1	-	11.1	-
3	STACK GAS FLOW RATE	IS 11255 PART 3 2008	Nm ³ /hr	136730.8	-	147144.0	150531.2	-	170656.5	-
4	OXIDES OF NITROGEN NO _x (as NO ₂)	IS 11255 PART 7 2005 (R.2017)	mg/Nm ³	173	-	102	156	-	115	800
5	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985 (R.2019)	mg/Nm ³	31	-	37	24	-	26	100
6	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985 (R.2019)	mg/Nm ³	20.3	-	17.5	21	-	24.1	30
7	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	mg/Nm ³	278	-	251	230	-	245	NA
8	ARSENIC (As)*	EPA Method 29	mg/Nm ³	BDL(DL-0.01)	-	BDL(DL-0.01)	BDL(DL-0.01)	-	BLQ(LOQ-0.01)	NA
9	MERCURY (Hg)*		mg/Nm ³	BDL(DL-0.01)	-	BDL(DL-0.01)	BDL(DL-0.01)	-	BLQ(LOQ-0.01)	NA

*Air Pollution Control Measures, *Not in NABL Scope

BDL- Below Detection Limit, D.L-Detection Limit, NA - Not Available, BLQ - Below Limit Of Quantification; LOQ - Limit Of Quantification

END OF REPORT


Verified by

For Chennai Testing Laboratory Pvt Ltd


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

Page 1 of 1

CIN: U93000TN2000PTC043869

TEST REPORT

Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address Kagithapuram - 639 136,
Karur District, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Stack Emission
Sample Description Stack Emission
Sampling Location Stack attached with Clinker Cooler
Sampling Plan & Procedure CTL/QSP/F-89 & IS 11255
Sample Quantity 1 No

Test Results:

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

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS						LIMITS (as per EC condition)
				SAMPLING DATE						
				24.04.2024	-	26.06.2024	29.07.2024	-	25.09.2024	
1	STACK TEMPERATURE	IS 11255 PART 3 2008	°C	109.0	-	114.0	152.0	-	175.0	-
2	STACK VELOCITY	IS 11255 PART 3 2008	m/s	10.6	-	11.3	11.6	-	11.7	-
3	STACK GAS FLOW RATE	IS 11255 PART 3 2008	Nm ³ /hr	32408.5	-	55066.2	51297.2	-	49343.9	-
4	OXIDES OF NITROGEN NO _x (as NO ₂)	IS 11255 PART 7 2005 (R 2017)	mg/Nm ³	6	-	11	7	-	BLQ(LOQ:5.0)	800
5	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985 (R 2019)	mg/Nm ³	BDL(DL:3.0)	-	BDL(DL:3.0)	BDL(DL:3.0)	-	BLQ(LOQ:3.0)	100
6	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985 (R 2019)	mg/Nm ³	13.6	-	10	9.5	-	8.2	30
7	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	mg/Nm ³	12	-	7	10	-	6	NA
8	ARSENIC (As)*	EPA Method 29	mg/Nm ³	BDL(DL:0.01)	-	BDL(DL:0.01)	BDL(DL:0.01)	-	BLQ(LOQ:0.01)	NA
9	MERCURY (Hg)*		mg/Nm ³	BDL(DL:0.01)	-	BDL(DL:0.01)	BDL(DL:0.01)	-	BLQ(LOQ:0.01)	NA

*Air Pollution Control Measures, *Not in NABL Scope

BDL- Below Detection Limit, D.L-Detection Limit, NA - Not Available, BLQ - Below Limit Of Quantification; LOQ - Limit Of Quantification

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G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 1 of 1

CIN: U93000TN2000PTC043869

TEST REPORT

Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address Kagithapuram - 639 136,
Karur District, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Stack Emission
Sample Description Stack Emission
Sampling Location Stack attached with Coal Mill
Sampling Plan & Procedure CTL/QSP/F-89 & IS 11255
Sample Quantity 1 No

Test Results:

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

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS						LIMITS (as per EC condition)
				SAMPLING DATE						
				24.04.2024	-	26.06.2024	29.07.2024	-	25.09.2024	
1	STACK TEMPERATURE	IS 11255 PART 3 2008	°C	66.0	-	61.0	53.0	-	54.0	-
2	STACK VELOCITY	IS 11255 PART 3 2008	m/s	13.9	-	13.2	12.7	-	12.1	-
3	STACK GAS FLOW RATE	IS 11255 PART 3 2008	Nm ³ /hr	22078.5	-	21246.3	20939.9	-	19818.3	-
4	OXIDES OF NITROGEN NO _x (as NO ₂)	IS 11255 PART 7 2005 (R.2017)	mg/Nm ³	135	-	122	124	-	96	800
5	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985 (R.2019)	mg/Nm ³	BDL(DL:3.0)	-	BDL(DL:3.0)	BDL(DL:3.0)	-	BLQ(LOQ:3.0)	100
6	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985 (R.2019)	mg/Nm ³	18.7	-	21	23	-	24.1	30
7	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	mg/Nm ³	203	-	175	146	-	126	NA
8	ARSENIC (As)*	EPA Method 29	mg/Nm ³	BDL(DL:0.01)	-	BDL(DL:0.01)	BDL(DL:0.01)	-	BLQ(LOQ:0.01)	NA
9	MERCURY (Hg)*		mg/Nm ³	BDL(DL:0.01)	-	BDL(DL:0.01)	BDL(DL:0.01)	-	BLQ(LOQ:0.01)	NA

*Air Pollution Control Measures, *Not in NABL Scope

BDL- Below Detection Limit, D.L-Detection Limit, NA - Not Available, BLQ - Below Limit Of Quantification; LOQ - Limit Of Quantification

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Head - Environment Division
(CHEMICAL)

Page 1 of 1

CIN: U93000TN2000PTC043869

TEST REPORT

Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address Kagithapuram - 639 136,
Karur District, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Stack Emission
Sample Description Stack Emission
Sampling Location Stack attached with Cement Mill
Sampling Plan & Procedure CTL/QSP/F-89 & IS 11255
Sample Quantity 1 No

Test Results:

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

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS						LIMITS (as per EC condition)
				SAMPLING DATE						
				24.04.2024	22.05.2024	27.06.2024	30.07.2024	29.08.2024	26.09.2024	
1	STACK TEMPERATURE	IS 11255 PART 3 2008	°C	72.0	59.0	70.0	64.0	62.0	65.0	-
2	STACK VELOCITY	IS 11255 PART 3 2008	m/s	14.3	14.2	13.9	13.3	12.8	12.6	-
3	STACK GAS FLOW RATE	IS 11255 PART 3 2008	Nm ³ /hr	34654.5	35905.9	33949.6	33171.7	32148.2	31241.1	-
4	OXIDES OF NITROGEN NO _x (as NO ₂)	IS 11255 PART 7 2005 (R 2017)	mg/Nm ³	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BLQ(LOQ:5.0)	800
5	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985 (R 2019)	mg/Nm ³	BDL(DL:3.0)	BDL(DL:3.0)	BDL(DL:3.0)	BDL(DL:3.0)	BDL(DL:3.0)	BLQ(LOQ:3.0)	100
6	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985 (R 2019)	mg/Nm ³	15.8	14.6	16.2	18	16.7	18.4	30
7	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	mg/Nm ³	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BLQ(LOQ:5.0)	NA
8	ARSENIC (As)*	EPA Method 29	mg/Nm ³	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BLQ(LOQ:0.01)	NA
9	MERCURY (Hg)*		mg/Nm ³	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BLQ(LOQ:0.01)	NA

*Air Pollution Control Measures, *Not in NABL Scope

BDL- Below Detection Limit, D.L-Detection Limit, NA - Not Available, BLQ - Below Limit Of Quantification; LOQ - Limit Of Quantification

END OF REPORT


Verified by

For Chennai Testing Laboratory Pvt Ltd

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

Page 1 of 1

CIN: U93000TN2000PTC043869

TEST REPORT

Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address Kagithapuram - 639 136,
Karur District, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Stack Emission
Sample Description Stack Emission
Sampling Location Stack attached with Packing Plant
Sampling Plan & Procedure CTL/QSP/F-89 & IS 11255
Sample Quantity 1 No

Test Results:

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

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS						LIMITS (as per EC condition)
				SAMPLING DATE						
				24.04.2024	22.05.2024	26.06.2024	30.07.2024	29.08.2024	25.09.2024	
1	STACK TEMPERATURE	IS 11255 PART 3 2008	°C	40.0	42.0	36.0	39.0	308.0	41.0	-
2	STACK VELOCITY	IS 11255 PART 3 2008	m/s	12.4	12.8	12.5	11.8	11.0	10.4	-
3	STACK GAS FLOW RATE	IS 11255 PART 3 2008	Nm ³ /hr	21288.5	21877.4	21759.5	20290.4	19233.5	17792.8	-
4	OXIDES OF NITROGEN NO _x (as NO ₂)	IS 11255 PART 7 2005 (R 2017)	mg/Nm ³	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BLQ(LOQ:5.0)	800
5	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985 (R 2019)	mg/Nm ³	BDL(DL:3.0)	BDL(DL:3.0)	BDL(DL:3.0)	BDL(DL:3.0)	BDL(DL:3.0)	BLQ(LOQ:3.0)	100
6	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985 (R 2019)	mg/Nm ³	10.2	9.6	12.4	10	11.7	13.2	30
7	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	mg/Nm ³	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BLQ(LOQ:5.0)	NA
8	ARSENIC (As)*	EPA Method 29	mg/Nm ³	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BLQ(LOQ:0.01)	NA
9	MERCURY (Hg)*		mg/Nm ³	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BLQ(LOQ:0.01)	NA

*Air Pollution Control Measures, *Not in NABL Scope

BDL- Below Detection Limit, D.L-Detection Limit, NA - Not Available, BLQ - Below Limit Of Quantification; LOQ - Limit Of Quantification

END OF REPORT


Verified by

For Chennai Testing Laboratory Pvt Ltd


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

Page 1 of 1

CIN: U93000TN2000PTC043869

TEST REPORT

Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address Kagithapuram - 639 136,
Karur District, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Stack Emission
Sample Description Stack Emission
Sampling Location Stack attached with Chloride Bypass System
Sampling Plan & Procedure CTL/QSP/F-89 & IS 11255
Sample Quantity 1 No

Test Results:

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

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS						LIMITS (as per EC condition)
				SAMPLING DATE						
				24.04.2024	-	26.06.2024	30.07.2024	-	25.09.2024	
1	STACK TEMPERATURE	IS 11255 PART 3 2008	°C	157.0	-	155.0	109.0	-	121.0	-
2	STACK VELOCITY	IS 11255 PART 3 2008	m/s	13.7	-	14.3	12.9	-	12.7	-
3	STACK GAS FLOW RATE	IS 11255 PART 3 2008	Nm ³ /hr	25075.5	-	26444.2	26605.4	-	25364.7	-
4	OXIDES OF NITROGEN NO _x (as NO ₂)	IS 11255 PART 7 2005 (R.2017)	mg/Nm ³	85	-	81	143	-	76	800
5	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985 (R.2019)	mg/Nm ³	10	-	8	12	-	10	100
6	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985 (R.2019)	mg/Nm ³	6.9	-	5.6	7.2	-	6.7	30
7	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	mg/Nm ³	16	-	11	12	-	18	NA
8	ARSENIC (As)*	EPA Method 29	mg/Nm ³	BDL(DL-0.01)	-	BDL(DL-0.01)	BDL(DL-0.01)	-	BLQ(LOQ-0.01)	NA
9	MERCURY (Hg)*		mg/Nm ³	BDL(DL-0.01)	-	BDL(DL-0.01)	BDL(DL-0.01)	-	BLQ(LOQ-0.01)	NA

*Air Pollution Control Measures, *Not in NABL Scope

BDL- Below Detection Limit, D.L-Detection Limit, NA - Not Available, BLQ - Below Limit Of Quantification; LOQ - Limit Of Quantification

END OF REPORT


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(CHEMICAL)

Page 1 of 1

CIN: U93000TN2000PTC043869

TEST REPORT

Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address Kagithapuram - 639 136,
Karur District, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Stack Emission
Sample Description Stack Emission
Sampling Location Stack attached with Lime Stone Secondary Crusher-1
Sampling Plan & Procedure CTL/QSP/F-89 & IS 11255
Sample Quantity 1 No

Test Results:

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

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS						LIMITS (as per EC condition)
				SAMPLING DATE						
				24.04.2024	-	25.06.2024	31.07.2024	-	26.09.2024	
1	STACK TEMPERATURE	IS 11255 PART 3 2008	°C	39.0	-	40.0	37.0	-	39.0	-
2	STACK VELOCITY	IS 11255 PART 3 2008	m/s	14.3	-	14.2	13.1	-	12.6	-
3	STACK GAS FLOW RATE	IS 11255 PART 3 2008	Nm ³ /hr	19426.7	-	19109.7	17814.9	-	17122.1	-
4	OXIDES OF NITROGEN NO _x (as NO ₂)	IS 11255 PART 7 2005 (R.2017)	mg/Nm ³	BDL(DL:5.0)	-	BDL(DL:5.0)	BDL(DL:5.0)	-	BLQ(LOQ:5.0)	800
5	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985 (R.2019)	mg/Nm ³	BDL(DL:3.0)	-	BDL(DL:3.0)	BDL(DL:3.0)	-	BLQ(LOQ:3.0)	100
6	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985 (R.2019)	mg/Nm ³	17.4	-	14.2	21.1	-	18	30
7	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	mg/Nm ³	BDL(DL:5.0)	-	BDL(DL:5.0)	BDL(DL:5.0)	-	BLQ(LOQ:5.0)	NA
8	ARSENIC (As)*	EPA Method 29	mg/Nm ³	BDL(DL:0.01)	-	BDL(DL:0.01)	BDL(DL:0.01)	-	BLQ(LOQ:0.01)	NA
9	MERCURY (Hg)*		mg/Nm ³	BDL(DL:0.01)	-	BDL(DL:0.01)	BDL(DL:0.01)	-	BLQ(LOQ:0.01)	NA

*Air Pollution Control Measures, *Not in NABL Scope

BDL- Below Detection Limit, D.L-Detection Limit, NA - Not Available, BLQ - Below Limit Of Quantification; LOQ - Limit Of Quantification

END OF REPORT


Verified by

For Chennai Testing Laboratory Pvt Ltd


Authorised Signatory

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 1 of 1

CIN: U93000TN2000PTC043869

TEST REPORT

Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address Kagithapuram - 639 136,
Karur District, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Stack Emission
Sample Description Stack Emission
Sampling Location Stack attached with Lime Stone Secondary Crusher-2
Sampling Plan & Procedure CTL/QSP/F-89 & IS 11255
Sample Quantity 1 No

Test Results:

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

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS						LIMITS (as per EC condition)
				SAMPLING DATE						
				24.04.2024	-	25.06.2024	31.07.2024	-	26.09.2024	
1	STACK TEMPERATURE	IS 11255 PART 3 2008	°C	40.0	-	41.0	36.0	-	40.0	-
2	STACK VELOCITY	IS 11255 PART 3 2008	m/s	14.0	-	13.8	13.5	-	12.3	-
3	STACK GAS FLOW RATE	IS 11255 PART 3 2008	Nm ³ /hr	30422.2	-	29902.6	29562.7	-	26728.7	-
4	OXIDES OF NITROGEN NO _x (as NO ₂)	IS 11255 PART 7 2005 (R 2017)	mg/Nm ³	BDL(DL:5.0)	-	BDL(DL:5.0)	BDL(DL:5.0)	-	BLQ(LOQ:5.0)	800
5	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985 (R 2019)	mg/Nm ³	BDL(DL:3.0)	-	BDL(DL:3.0)	BDL(DL:3.0)	-	BLQ(LOQ:3.0)	100
6	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985 (R 2019)	mg/Nm ³	21.6	-	17.5	20.5	-	19.1	30
7	CARBON MONOXIDE (CO)	CTL/SOP/STACK/10-2016 (Flue Gas Analyser)	mg/Nm ³	BDL(DL:5.0)	-	BDL(DL:5.0)	BDL(DL:5.0)	-	BLQ(LOQ:5.0)	NA
8	ARSENIC (As)*	EPA Method 29	mg/Nm ³	BDL(DL:0.01)	-	BDL(DL:0.01)	BDL(DL:0.01)	-	BLQ(LOQ:0.01)	NA
9	MERCURY (Hg)*		mg/Nm ³	BDL(DL:0.01)	-	BDL(DL:0.01)	BDL(DL:0.01)	-	BLQ(LOQ:0.01)	NA

*Air Pollution Control Measures, *Not in NABL Scope

BDL- Below Detection Limit, D.L-Detection Limit, NA - Not Available, BLQ - Below Limit Of Quantification; LOQ - Limit Of Quantification

END OF REPORT


Verified by

For Chennai Testing Laboratory Pvt Ltd

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

Page 1 of 1

TEST REPORT

Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address Kagithapuram - 639 136,
Karur District, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name NOISE
Sample Description AMBIENT NOISE
Sampling Plan & Procedure CTL/QSP/F-89 & IS 9989

Test Results:

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

SLNO	LOCATION	NOISE LEVEL dB (A)						LIMITS*
		24.04.2024	22.05.2024	26.06.2024	30.07.2024	29.08.2024	26.09.2024	
1	Lime Stone Stock Yard at LSFM Unit	57.5	59.8	52.5	51.0	54.4	52.6	75.0 dB (A)
2	Mr. P. Nachimuthu House, Moorthipalayam	51.7	48.2	48.1	54.5	50.8	50.1	
3	Mr. P.K. Periyasamy House, Thathampalayam	54.5	45.3	43.0	44.8	40.7	52.5	
4	Two Wheeler Parking area at LSFM Unit	56.2	48.2	47.7	48.9	61.2	56.8	
5	Mr.A. Sakthivel House, Moolimangalam	51.6	48.6	49.5	51.3	46.5	50.1	
6	TNPL Water Reservoir BR-3	54.2	59.9	56.3	61.1	62.1	61.9	

* CPCB Limits (Day Time)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

Authorised Signat

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 1 of 1

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CIN: U93000TN2000PTC043869

TEST REPORT

Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address Kagithapuram - 639 136,
Karur District, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Fugitive Emission
Sample Description Fugitive Emission
Sampling Location Raw Materials Storage Area
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No

Test Results:

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

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS						LIMITS
				SAMPLING DATE						
				24.04.2024	22.05.2024	26.06.2024	30.07.2024	29.08.2024	25.09.2024	
1	RESPIRABLE PARTICULATE MATTER (RPM)	NIOSH 0600	mg/m ³	0.875	0.691	0.912	1.025	0.785	0.885	3*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.021	0.017	0.022	0.02	0.016	0.019	5**
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.039	0.036	0.044	0.037	0.031	0.035	6**
4	CARBON MONOXIDE (CO)	NIOSH 6604	mg/m ³	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BLQ(LOQ:1.15)	55**
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	BDL(DL:0.0001)	BDL(DL:0.0001)	BDL(DL:0.0001)	BDL(DL:0.0001)	BLQ(LOQ:0.0001)	0.05*

*Occupational Safety and Health Standards** As factory Act 1948.

BDL - Below Detection Limit(D.L - Detection Limit); BLQ-Below Limit Of Quantification; LOQ- Limit Of Quantification

END OF REPORT


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For Chennai Testing Laboratory Pvt Ltd


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

Page 1 of 1

CIN: U93000TN2000PTC043869

TEST REPORT

Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address Kagithapuram - 639 136,
Karur District, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Fugitive Emission
Sample Description Fugitive Emission
Sampling Location Lime Stone Crushing Area
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No

Test Results:

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

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS						LIMITS
				SAMPLING DATE						
				24.04.2024	22.05.2024	26.06.2024	30.07.2024	29.08.2024	25.09.2024	
1	RESPIRABLE PARTICULATE MATTER (RPM)	NIOSH 0600	mg/m ³	1.084	0.858	1.360	0.890	0.658	0.778	3*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.013	0.01	0.016	0.018	0.015	0.017	5**
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.024	0.022	0.037	0.041	0.026	0.030	6**
4	CARBON MONOXIDE (CO)	NIOSH 8604	mg/m ³	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BLQ(LOQ:1.15)	55**
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	BDL(DL:0.0001)	BDL(DL:0.0001)	BDL(DL:0.0001)	BDL(DL:0.0001)	BLQ(LOQ:0.0001)	0.05*

*Occupational Safety and Health Standards** As factory Act 1948.

BDL - Below Detection Limit(D.L - Detection Limit); BLQ-Below Limit Of Quantification; LOQ- Limit Of Quantification

END OF REPORT


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For Chennai Testing Laboratory Pvt Ltd


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

Page 1 of 1

CIN: U93000TN2000PTC043869

TEST REPORT

Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address Kagithapuram - 639 136,
Karur District, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Fugitive Emission
Sample Description Fugitive Emission
Sampling Location Clinker Cooler Area
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No

Test Results:

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

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS						LIMITS
				SAMPLING DATE						
				24.04.2024	22.05.2024	26.06.2024	30.07.2024	29.08.2024	25.09.2024	
1	RESPIRABLE PARTICULATE MATTER (RPM)	NIOSH 0600	mg/m ³	0.685	0.578	0.725	0.535	0.293	0.362	5*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.015	0.012	0.014	0.017	0.021	0.024	5**
3	OXIDES OF NITROGEN (NO _x)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.031	0.027	0.033	0.036	0.038	0.045	6**
4	CARBON MONOXIDE (CO)	NIOSH 6604	mg/m ³	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BLQ(LOQ:1.15)	55**
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	BDL(DL:0.0001)	BDL(DL:0.0001)	BDL(DL:0.0001)	BDL(DL:0.0001)	BLQ(LOQ:0.0001)	0.05*

*Occupational Safety and Health Standards** As factory Act 1948.

BDL - Below Detection Limit(D.L - Detection Limit); BLQ-Below Limit Of Quantification; LOQ- Limit Of Quantification

END OF REPORT


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(CHEMICAL)

Page 1 of 1

CIN: U93000TN2000PTC043869

TEST REPORT

Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address Kagithapuram - 639 136,
Karur District, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Fugitive Emission
Sample Description Fugitive Emission
Sampling Location Additives Unloading area
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No

Test Results:

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

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS						LIMITS
				SAMPLING DATE						
				24.04.2024	22.05.2024	26.06.2024	30.07.2024	29.08.2024	25.09.2024	
1	RESPIRABLE PARTICULATE MATTER (RPM)	NIOSH 0600	mg/m ³	0.506	0.456	0.640	0.370	0.382	0.415	5*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.019	0.016	0.018	0.013	0.017	0.021	5**
3	OXIDES OF NITROGEN (NO _x)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.029	0.022	0.027	0.025	0.033	0.040	6**
4	CARBON MONOXIDE (CO)	NIOSH 6604	mg/m ³	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BLQ(LOQ:1.15)	55**
5	LEAD (Pb)	NIOSH 7082	mg/m ³	BDL(DL:0.0001)	BDL(DL:0.0001)	BDL(DL:0.0001)	BDL(DL:0.0001)	BDL(DL:0.0001)	BLQ(LOQ:0.0001)	0.05*

*Occupational Safety and Health Standards** As factory Act 1948.

BDL - Below Detection Limit(D.L - Detection Limit); BLQ-Below Limit Of Quantification; LOQ- Limit Of Quantification

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For Chennai Testing Laboratory Pvt Ltd


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G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

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CIN: U93000TN2000PTC043869

TEST REPORT

Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address Kagithapuram - 639 136,
Karur District, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Fugitive Emission
Sample Description Fugitive Emission
Sampling Location Coal Handling Area
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No

Test Results:

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

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS						LIMITS
				SAMPLING DATE						
				24.04.2024	22.05.2024	26.06.2024	30.07.2024	29.08.2024	25.09.2024	
1	RESPIRABLE PARTICULATE MATTER (RPM)	NIOSH 0600	mg/m ³	3.472	3.165	3.270	2.860	2.615	2.964	5*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.032	0.028	0.024	0.02	0.025	0.032	5**
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.039	0.032	0.045	0.040	0.042	0.054	6**
4	CARBON MONOXIDE (CO)	NIOSH 6604	mg/m ³	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BLQ(LOQ:1.15)	55**
5	LEAD (Pb)	NIOSH 7082	mg/m ³	0.018	0.014	0.015	0.011	0.0086	0.012	0.05*

*Occupational Safety and Health Standards** As factory Act 1948.

BDL - Below Detection Limit(D.L - Detection Limit); BLQ-Below Limit Of Quantification; LOQ- Limit Of Quantification

END OF REPORT


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G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 1 of 1

CIN: U93000TN2000PTC043869

TEST REPORT

Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address Kagithapuram - 639 136,
Karur District, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Fugitive Emission
Sample Description Fugitive Emission
Sampling Location Ash Handling area
Sampling Plan & Procedure CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity 1 No

Test Results:

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

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS						LIMITS
				SAMPLING DATE						
				24.04.2024	22.05.2024	26.06.2024	30.07.2024	29.08.2024	25.09.2024	
1	RESPIRABLE PARTICULATE MATTER (RPM)	NIOSH 0600	mg/m ³	1.245	1.082	1.810	1.520	1.345	1.561	3*
2	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	mg/m ³	0.026	0.019	0.023	0.025	0.022	0.024	5**
3	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	mg/m ³	0.042	0.040	0.052	0.040	0.037	0.038	6**
4	CARBON MONOXIDE (CO)	NIOSH 8604	mg/m ³	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BLQ(LOQ:1.15)	55**
5	LEAD (Pb)	NIOSH 7082	mg/m ³	0.0024	0.0016	0.0022	0.0017	0.0027	0.0032	0.05*

*Occupational Safety and Health Standards** As factory Act 1948.

BDL - Below Detection Limit(D.L - Detection Limit); BLQ-Below Limit Of Quantification; LOQ- Limit Of Quantification

END OF REPORT


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For Chennai Testing Laboratory Pvt Ltd


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

Page 1 of 1

TEST REPORT

Test Report No & Date	CTL/CH/N-35364/2023-24 & 06.02.2024
Sample Number	N-35364/23-24
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address	Kagithapuram - 639 136, Karur District, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Ground Water
Sample Description	Ground Water
Sampling Location	Raw Water, TNPL Cement Plant
GPS Reading	11°02'10.67"N & 78°00'29.74"E
Sample Drawn on	31.01.2024
Sample Received on	31.01.2024
Sampling Plan & Procedure	Grab Sample & CTL/QSP/09
Sample Quantity	2 Litres
Sample Condition	Good & Received in Plastic Container
Environmental Conditions	Temperature- 30.6°C and Humidity- 58.9%
Equipment used for Sampling	NA
Analysis Started on	01.02.2024
Analysis Completed on	06.02.2024

Test Results:

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

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS : 3025 (Part 4)- 2021	HU	2
2	Odour	IS : 3025 (Part 5) - 2018	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	8.5
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	476
7	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2019)	mg/l	35
8	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2019)	mg/l	114
9	Fluoride as F	IS 3025 (Part 60)-2008 (R.2019)	mg/l	0.12
10	Residual Free Chlorine	IS 3025 (Part 26) - 2021	mg/l	BDL(DL:0.1)
11	Iron as Fe	IS 3025 (Part 53)-2003 (R.2019)	mg/l	0.08
12	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2019)	mg/l	32
13	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1) 2022	mg/l	BDL(DL:0.001)
14	Sulphate as SO ₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	53
15	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2019)	mg/l	183
16	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2019)	mg/l	219
17	Cyanide as CN	IS 3025 (Part 27/Sec-1) - 2021	mg/l	BDL(DL:0.01)
18	Total Suspended Solids	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	< 2
19	Sodium as Na	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	84
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)
22	Chromium as Cr	IS 3025 (Part 52)-2003 (RA.2019)	mg/l	BDL(DL:0.01)

[Signature]
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For Chennai Testing Laboratory Pvt Ltd

[Signature]
A. Rajkumar

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-35364/2023-24 & 06.02.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS
23	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	< 2
24	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	< 4
25	Silica as SiO ₂	IS 3025 (Part 35)- 1988 (RA.2019)	mg/l	10
26	Potassium as K	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	9
27	Dissolved Oxygen	IS 3025 (Part 38) - 1989 (RA.2019)	mg/l	7.1
28	Nitrate Nitrogen as N	IS 3025 (Part 34)-1988 (R.2019)	mg/l	1.12

BDL - Below Detection Limit; DL - Detection limit;

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

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

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TEST REPORT

Test Report No & Date	CTL/CH/N-35365/2023-24 & 06.02.2024
Sample Number	N-35365/23-24
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address	Kagithapuram - 639 136, Karur District, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Ground Water
Sample Description	Ground Water
Sampling Location	Raw Water, TNPL Paper Plant
GPS Reading	11°03'39.56"N & 77°59'41.27"E
Sample Drawn on	31.01.2024
Sample Received on	31.01.2024
Sampling Plan & Procedure	Grab Sample & CTL/QSP/09
Sample Quantity	2 Litres
Sample Condition	Good & Received in Plastic Container
Environmental Conditions	Temperature- 30.6°C and Humidity- 58.9%
Equipment used for Sampling	NA
Analysis Started on	01.02.2024
Analysis Completed on	06.02.2024

Test Results:

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

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS : 3025 (Part 4)- 2021	HU	2
2	Odour	IS : 3025 (Part 5) - 2018	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	8.6
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	670
7	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2019)	mg/l	56
8	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2019)	mg/l	146
9	Fluoride as F	IS 3025 (Part 60)-2008 (R.2019)	mg/l	0.25
10	Residual Free Chlorine	IS 3025 (Part 26) -2021	mg/l	BDL(DL-0.1)
11	Iron as Fe	IS 3025 (Part 53)-2003 (R.2019)	mg/l	0.32
12	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2019)	mg/l	38
13	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1) 2022	mg/l	BDL(DL-0.001)
14	Sulphate as SO ₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	65
15	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2019)	mg/l	275
16	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2019)	mg/l	296
17	Cyanide as CN	IS 3025 (Part 27/Sec-1) - 2021	mg/l	BDL(DL-0.01)
18	Total Suspended Solids	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	4
19	Sodium as Na	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	124
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)
22	Chromium as Cr	IS 3025 (Part 52)-2003 (RA.2019)	mg/l	BDL(DL-0.01)

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For Chennai Testing Laboratory Pvt Ltd

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Authorised Signatory

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

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TEST REPORT

Test Report No & Date	CTL/CH/N-35365/2023-24 & 06.02.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS
23	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	< 2
24	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	< 4
25	Silica as SiO ₂	IS 3025 (Part 35)- 1988 (RA.2019)	mg/l	12
26	Potassium as K	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	14
27	Dissolved Oxygen	IS 3025 (Part 38) - 1989 (RA.2019)	mg/l	7.0
28	Nitrate Nitrogen as N	IS 3025 (Part 34)-1988 (R.2019)	mg/l	2.25

BDL - Below Detection Limit; DL - Detection limit;

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

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A. Rajkumar

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

Page 2 of 2

TEST REPORT

Test Report No & Date	CTL/CH/N-35356/2023-24 & 06.02.2024
Sample Number	N-35356/23-24
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address	Kagithapuram - 639 136, Karur District, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Ground Water
Sample Description	Ground Water
Sampling Location	Borewell, Velayuthampalayam
GPS Reading	11°04'23.28"N & 78°00'07.46"E
Sample Drawn on	31.01.2024
Sample Received on	31.01.2024
Sampling Plan & Procedure	Grab Sample & CTL/QSP/09
Sample Quantity	2 Litres
Sample Condition	Good & Received in Plastic Container
Environmental Conditions	Temperature- 30.6°C and Humidity- 58.9%
Equipment used for Sampling	NA
Analysis Started on	01.02.2024
Analysis Completed on	06.02.2024

Test Results:

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

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS : 3025 (Part 4)- 2021	HU	2
2	Odour	IS : 3025 (Part 5) - 2018	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	8.0
4	Taste	IS 3025 (Part 8)-1984 (R.2017)	-	Disagreeable
5	Turbidity	IS 3025 (Part 10)-1984 (R.2017)	NTU	1
6	Total Dissolved Solids	IS 3025 (Part 16)-1984 (RA.2017)	mg/l	1420
7	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2019)	mg/l	153
8	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2019)	mg/l	428
9	Fluoride as F	IS 3025 (Part 60)-2008 (R.2019)	mg/l	0.37
10	Residual Free Chlorine	IS 3025 (Part 26) -2021	mg/l	BDL(DL:0.1)
11	Iron as Fe	IS 3025 (Part 53)-2003 (R.2019)	mg/l	0.13
12	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2019)	mg/l	95
13	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1) 2022	mg/l	BDL(DL:0.001)
14	Sulphate as SO ₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	142
15	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2019)	mg/l	374
16	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2019)	mg/l	772
17	Cyanide as CN	IS 3025 (Part 27/Sec-1) - 2021	mg/l	BDL(DL:0.01)
18	Total Suspended Solids	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	2
19	Sodium as Na	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	244
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)
22	Chromium as Cr	IS 3025 (Part 52)-2003 (RA.2019)	mg/l	BDL(DL:0.01)

[Signature]
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For Chennai Testing Laboratory Pvt Ltd

[Signature]
A. Rajkumar
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-35356/2023-24 & 06.02.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS
23	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	< 2
24	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	< 4
25	Silica as SiO ₂	IS 3025 (Part 35)- 1988 (RA.2019)	mg/l	35
26	Potassium as K	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	20
27	Dissolved Oxygen	IS 3025 (Part 38) - 1989 (RA.2019)	mg/l	7.1
28	Nitrate Nitrogen as N	IS 3025 (Part 34)-1988 (R.2019)	mg/l	4.76

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

CIN: U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-35357/2023-24 & 06.02.2024
Sample Number	N-35357/23-24
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address	Kagithapuram - 639 136, Karur District, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Ground Water
Sample Description	Ground Water
Sampling Location	Borewell, Velur
GPS Reading	11°06'33.66"N & 78°00'15.18"E
Sample Drawn on	31.01.2024
Sample Received on	31.01.2024
Sampling Plan & Procedure	Grab Sample & CTL/QSP/09
Sample Quantity	2 Litres
Sample Condition	Good & Received in Plastic Container
Environmental Conditions	Temperature- 30.6°C and Humidity- 58.9%
Equipment used for Sampling	NA
Analysis Started on	01.02.2024
Analysis Completed on	06.02.2024

Test Results:

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

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS : 3025 (Part 4)- 2021	HU	2
2	Odour	IS : 3025 (Part 5) - 2018	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	8.3
4	Taste	IS 3025 (Part 8)-1984 (R.2017)	-	Disagreeable
5	Turbidity	IS 3025 (Part 10)-1984 (R.2017)	NTU	1
6	Total Dissolved Solids	IS 3025 (Part 16)-1984 (RA.2017)	mg/l	1440
7	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2019)	mg/l	91
8	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2019)	mg/l	333
9	Fluoride as F	IS 3025 (Part 60)-2008 (R.2019)	mg/l	0.29
10	Residual Free Chlorine	IS 3025 (Part 26) -2021	mg/l	BDL(DL:0.1)
11	Iron as Fe	IS 3025 (Part 53)-2003 (R.2019)	mg/l	0.18
12	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2019)	mg/l	63
13	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1) 2022	mg/l	BDL(DL:0.001)
14	Sulphate as SO ₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	131
15	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2019)	mg/l	666
16	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2019)	mg/l	486
17	Cyanide as CN	IS 3025 (Part 27/Sec-1) - 2021	mg/l	BDL(DL:0.01)
18	Total Suspended Solids	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	2
19	Sodium as Na	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	286
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)
22	Chromium as Cr	IS 3025 (Part 52)-2003 (RA.2019)	mg/l	BDL(DL:0.01)

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For Chennai Testing Laboratory Pvt Ltd

A. Rajkumar

Authorised Signatory

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

Page 1 of 2

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TEST REPORT

Test Report No & Date	CTL/CH/N-35357/2023-24 & 06.02.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS
23	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	< 2
24	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	< 4
25	Silica as SiO ₂	IS 3025 (Part 35)- 1988 (RA.2019)	mg/l	36
26	Potassium as K	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	17
27	Dissolved Oxygen	IS 3025 (Part 38) - 1989 (RA.2019)	mg/l	7.0
28	Nitrate Nitrogen as N	IS 3025 (Part 34)-1988 (R.2019)	mg/l	7.22

BDL - Below Detection Limit; DL - Detection limit;

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

Rajkumar
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A. Rajkumar

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

Page 2 of 2

TEST REPORT

Test Report No & Date CTL/CH/N-35358/2023-24 & 06.02.2024
Sample Number N-35358/23-24
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address Kagithapuram - 639 136,
Karur District, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ground Water
Sample Description Ground Water
Sampling Location Borewell, Thottakurichi
GPS Reading 11°04'13.08"N & 78°01'53.97"E
Sample Drawn on 31.01.2024
Sample Received on 31.01.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 30.6°C and Humidity- 58.9%
Equipment used for Sampling NA
Analysis Started on 01.02.2024
Analysis Completed on 06.02.2024

Test Results:

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

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS : 3025 (Part 4)- 2021	HU	2
2	Odour	IS : 3025 (Part 5) - 2018	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	7.8
4	Taste	IS 3025 (Part 8)-1984 (R.2017)	-	Disagreeable
5	Turbidity	IS 3025 (Part 10)-1984 (R.2017)	NTU	3
6	Total Dissolved Solids	IS 3025 (Part 16)-1984 (RA.2017)	mg/l	610
7	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2019)	mg/l	76
8	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2019)	mg/l	114
9	Fluoride as F	IS 3025 (Part 60)-2008 (R.2019)	mg/l	0.45
10	Residual Free Chlorine	IS 3025 (Part 26) -2021	mg/l	BDL(DL:0.1)
11	Iron as Fe	IS 3025 (Part 53)-2003 (R.2019)	mg/l	0.39
12	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2019)	mg/l	30
13	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1) 2022	mg/l	BDL(DL:0.001)
14	Sulphate as SO ₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	65
15	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2019)	mg/l	283
16	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2019)	mg/l	313
17	Cyanide as CN	IS 3025 (Part 27/Sec-1) - 2021	mg/l	BDL(DL:0.01)
18	Total Suspended Solids	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	5
19	Sodium as Na	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	75
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)
22	Chromium as Cr	IS 3025 (Part 52)-2003 (RA.2019)	mg/l	BDL(DL:0.01)

For Chennai Testing Laboratory Pvt Ltd

A. Rajkumar

Authorised Signatory

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

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TEST REPORT

Test Report No & Date	CTL/CH/N-35358/2023-24 & 06.02.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS
23	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	< 2
24	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	< 4
25	Silica as SiO ₂	IS 3025 (Part 35)- 1988 (RA.2019)	mg/l	16
26	Potassium as K	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	6
27	Dissolved Oxygen	IS 3025 (Part 38) - 1989 (RA.2019)	mg/l	6.9
28	Nitrate Nitrogen as N	IS 3025 (Part 34)-1988 (R.2019)	mg/l	2.03

BDL - Below Detection Limit; DL - Detection limit;

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Head - Water & Soil Division
(CHEMICAL)

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TEST REPORT

Test Report No & Date	CTL/CH/N-35359/2023-24 & 06.02.2024
Sample Number	N-35359/23-24
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address	Kagithapuram - 639 136, Karur District, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Ground Water
Sample Description	Ground Water
Sampling Location	Borewell, Thalavapalayam
GPS Reading	11°03'44.15"N & 78°02'51.72"E
Sample Drawn on	31.01.2024
Sample Received on	31.01.2024
Sampling Plan & Procedure	Grab Sample & CTL/QSP/09
Sample Quantity	2 Litres
Sample Condition	Good & Received in Plastic Container
Environmental Conditions	Temperature- 30.6°C and Humidity- 58.9%
Equipment used for Sampling	NA
Analysis Started on	01.02.2024
Analysis Completed on	06.02.2024

Test Results:

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

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS : 3025 (Part 4)- 2021	HU	2
2	Odour	IS : 3025 (Part 5) - 2018	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	7.9
4	Taste	IS 3025 (Part 8)-1984 (R.2017)	-	Disagreeable
5	Turbidity	IS 3025 (Part 10)-1984 (R.2017)	NTU	< 1
6	Total Dissolved Solids	IS 3025 (Part 16)-1984 (RA.2017)	mg/l	3750
7	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2019)	mg/l	372
8	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2019)	mg/l	1463
9	Fluoride as F	IS 3025 (Part 60)-2008 (R.2019)	mg/l	0.52
10	Residual Free Chlorine	IS 3025 (Part 26) -2021	mg/l	BDL(DL:0.1)
11	Iron as Fe	IS 3025 (Part 53)-2003 (R.2019)	mg/l	0.22
12	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2019)	mg/l	175
13	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1) 2022	mg/l	BDL(DL:0.001)
14	Sulphate as SO ₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	424
15	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2019)	mg/l	333
16	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2019)	mg/l	1648
17	Cyanide as CN	IS 3025 (Part 27/Sec-1) - 2021	mg/l	BDL(DL:0.01)
18	Total Suspended Solids	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	< 2
19	Sodium as Na	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	880
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)
22	Chromium as Cr	IS 3025 (Part 52)-2003 (RA.2019)	mg/l	BDL(DL:0.01)

For Chennai Testing Laboratory Pvt Ltd

A. Rajkumar

Authorised Signatory

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

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TEST REPORT

Test Report No & Date	CTL/CH/N-35359/2023-24 & 06.02.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS
23	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	< 2
24	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	< 4
25	Silica as SiO ₂	IS 3025 (Part 35)- 1988 (RA.2019)	mg/l	22
26	Potassium as K	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	70
27	Dissolved Oxygen	IS 3025 (Part 38) - 1989 (RA.2019)	mg/l	7.1
28	Nitrate Nitrogen as N	IS 3025 (Part 34)-1988 (R.2019)	mg/l	11.96

BDL - Below Detection Limit; DL - Detection limit;

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Head - Water & Soil Division
(CHEMICAL)

Page 2 of 2

TEST REPORT

Test Report No & Date CTL/CH/N-35360/2023-24 & 06.02.2024
Sample Number N-35360/23-24
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address Kagithapuram - 639 136,
Karur District, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ground Water
Sample Description Ground Water
Sampling Location Borewell, Manmangalam
GPS Reading 11°01'36.79"N & 78°04'02.88"E
Sample Drawn on 31.01.2024
Sample Received on 31.01.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 30.6°C and Humidity- 58.9%
Equipment used for Sampling NA
Analysis Started on 01.02.2024
Analysis Completed on 06.02.2024

Test Results:

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

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS : 3025 (Part 4)- 2021	HU	2
2	Odour	IS : 3025 (Part 5) - 2018	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	7.7
4	Taste	IS 3025 (Part 8)-1984 (R.2017)	-	Disagreeable
5	Turbidity	IS 3025 (Part 10)-1984 (R.2017)	NTU	< 1
6	Total Dissolved Solids	IS 3025 (Part 16)-1984 (RA.2017)	mg/l	6220
7	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2019)	mg/l	817
8	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2019)	mg/l	2613
9	Fluoride as F	IS 3025 (Part 60)-2008 (R.2019)	mg/l	0.77
10	Residual Free Chlorine	IS 3025 (Part 26) -2021	mg/l	BDL(DL:0.1)
11	Iron as Fe	IS 3025 (Part 53)-2003 (R.2019)	mg/l	0.52
12	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2019)	mg/l	245
13	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1) 2022	mg/l	BDL(DL:0.001)
14	Sulphate as SO ₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	418
15	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2019)	mg/l	229
16	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2019)	mg/l	3046
17	Cyanide as CN	IS 3025 (Part 27/Sec-1) - 2021	mg/l	BDL(DL:0.01)
18	Total Suspended Solids	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	< 2
19	Sodium as Na	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	1700
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)
22	Chromium as Cr	IS 3025 (Part 52)-2003 (RA.2019)	mg/l	BDL(DL:0.01)

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For Chennai Testing Laboratory Pvt Ltd

A. Rajkumar
Authorized Signatory

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

Page 1 of 2

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TEST REPORT

Test Report No & Date	CTL/CH/N-35360/2023-24 & 06.02.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS
23	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	< 2
24	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	< 4
25	Silica as SiO ₂	IS 3025 (Part 35)- 1988 (RA.2019)	mg/l	36
26	Potassium as K	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	130
27	Dissolved Oxygen	IS 3025 (Part 38) - 1989 (RA.2019)	mg/l	7.2
28	Nitrate Nitrogen as N	IS 3025 (Part 34)-1988 (R.2019)	mg/l	11.06

BDL - Below Detection Limit; DL - Detection limit;

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TEST REPORT

Test Report No & Date	CTL/CH/N-35361/2023-24 & 06.02.2024
Sample Number	N-35361/23-24
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address	Kagithapuram - 639 136, Karur District, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Ground Water
Sample Description	Ground Water
Sampling Location	Borewell, Mangacholipalayam
GPS Reading	11°00'14.77"N & 78°02'20.49"E
Sample Drawn on	31.01.2024
Sample Received on	31.01.2024
Sampling Plan & Procedure	Grab Sample & CTL/QSP/09
Sample Quantity	2 Litres
Sample Condition	Good & Received in Plastic Container
Environmental Conditions	Temperature- 30.6°C and Humidity- 58.9%
Equipment used for Sampling	NA
Analysis Started on	01.02.2024
Analysis Completed on	06.02.2024

Test Results:

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

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS : 3025 (Part 4)- 2021	HU	2
2	Odour	IS : 3025 (Part 5) - 2018	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	7.7
4	Taste	IS 3025 (Part 8)-1984 (R.2017)	-	Agreeable
5	Turbidity	IS 3025 (Part 10)-1984 (R.2017)	NTU	< 1
6	Total Dissolved Solids	IS 3025 (Part 16)-1984 (RA.2017)	mg/l	850
7	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2019)	mg/l	130
8	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2019)	mg/l	137
9	Fluoride as F	IS 3025 (Part 60)-2008 (R.2019)	mg/l	0.17
10	Residual Free Chlorine	IS 3025 (Part 26) -2021	mg/l	BDL(DL:0.1)
11	Iron as Fe	IS 3025 (Part 53)-2003 (R.2019)	mg/l	0.29
12	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2019)	mg/l	51
13	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1) 2022	mg/l	BDL(DL:0.001)
14	Sulphate as SO ₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	198
15	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2019)	mg/l	275
16	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2019)	mg/l	534
17	Cyanide as CN	IS 3025 (Part 27/Sec-1) - 2021	mg/l	BDL(DL:0.01)
18	Total Suspended Solids	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	< 2
19	Sodium as Na	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	86
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)
22	Chromium as Cr	IS 3025 (Part 52)-2003 (RA.2019)	mg/l	BDL(DL:0.01)

For Chennai Testing Laboratory Pvt Ltd

A. Rajkumar

Authorised Signatory

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

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TEST REPORT

Test Report No & Date	CTL/CH/N-35361/2023-24 & 06.02.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS
23	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	< 2
24	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	< 4
25	Silica as SiO ₂	IS 3025 (Part 35)- 1988 (RA.2019)	mg/l	30
26	Potassium as K	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	7
27	Dissolved Oxygen	IS 3025 (Part 38) - 1989 (RA.2019)	mg/l	7.3
28	Nitrate Nitrogen as N	IS 3025 (Part 34)-1988 (R.2019)	mg/l	3.38

BDL - Below Detection Limit; DL - Detection limit;

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TEST REPORT

Test Report No & Date CTL/CH/N-35362/2023-24 & 06.02.2024
Sample Number N-35362/23-24
Name of the Customer M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address Kagithapuram - 639 136,
Karur District, Tamil Nadu.

Sample Drawn by Laboratory
Sample Name Ground Water
Sample Description Ground Water
Sampling Location Borewell, Punnamchathiram
GPS Reading 11°00'42.39"N & 77°59'08.63"E
Sample Drawn on 31.01.2024
Sample Received on 31.01.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic Container
Environmental Conditions Temperature- 30.6°C and Humidity- 58.9%
Equipment used for Sampling NA
Analysis Started on 01.02.2024
Analysis Completed on 06.02.2024

Test Results:

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

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS : 3025 (Part 4)- 2021	HU	2
2	Odour	IS : 3025 (Part 5) - 2018	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	7.9
4	Taste	IS 3025 (Part 8)-1984 (R.2017)	-	Disagreeable
5	Turbidity	IS 3025 (Part 10)-1984 (R.2017)	NTU	< 1
6	Total Dissolved Solids	IS 3025 (Part 16)-1984 (RA.2017)	mg/l	12350
7	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2019)	mg/l	1189
8	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2019)	mg/l	5415
9	Fluoride as F	IS 3025 (Part 60)-2008 (R.2019)	mg/l	0.79
10	Residual Free Chlorine	IS 3025 (Part 26) -2021	mg/l	BDL(DL-0.1)
11	Iron as Fe	IS 3025 (Part 53)-2003 (R.2019)	mg/l	0.47
12	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2019)	mg/l	807
13	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1) 2022	mg/l	BDL(DL-0.001)
14	Sulphate as SO ₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	1436
15	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2019)	mg/l	250
16	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2019)	mg/l	6285
17	Cyanide as CN	IS 3025 (Part 27/Sec-1) - 2021	mg/l	BDL(DL-0.01)
18	Total Suspended Solids	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	< 2
19	Sodium as Na	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	2970
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)
22	Chromium as Cr	IS 3025 (Part 52)-2003 (RA.2019)	mg/l	BDL(DL-0.01)

For Chennai Testing Laboratory Pvt Ltd

A. Rajkumar

Authorised Signatory

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

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TEST REPORT

Test Report No & Date	CTL/CH/N-35362/2023-24 & 06.02.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS
23	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	< 2
24	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	< 4
25	Silica as SiO ₂	IS 3025 (Part 35)- 1988 (RA.2019)	mg/l	34
26	Potassium as K	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	216
27	Dissolved Oxygen	IS 3025 (Part 38) - 1989 (RA.2019)	mg/l	7.0
28	Nitrate Nitrogen as N	IS 3025 (Part 34)-1988 (R.2019)	mg/l	14.67

BDL - Below Detection Limit; DL - Detection limit;

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(CHEMICAL)

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TEST REPORT

Test Report No & Date	CTL/CH/N-35363/2023-24 & 06.02.2024
Sample Number	N-35363/23-24
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address	Kagithapuram - 639 136, Karur District, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Ground Water
Sample Description	Ground Water
Sampling Location	Borewell, Kulathupalayam
GPS Reading	11°03'28.81"N & 77°57'13.59"E
Sample Drawn on	31.01.2024
Sample Received on	31.01.2024
Sampling Plan & Procedure	Grab Sample & CTL/QSP/09
Sample Quantity	2 Litres
Sample Condition	Good & Received in Plastic Container
Environmental Conditions	Temperature- 30.6°C and Humidity- 58.9%
Equipment used for Sampling	NA
Analysis Started on	01.02.2024
Analysis Completed on	06.02.2024

Test Results:

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

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS : 3025 (Part 4)- 2021	HU	2
2	Odour	IS : 3025 (Part 5) - 2018	-	Agreeable
3	pH @ 25°C	IS 3025 (Part 11)-1983 (RA.2017)	-	8.1
4	Taste	IS 3025 (Part 8)-1984 (R.2017)	-	Disagreeable
5	Turbidity	IS 3025 (Part 10)-1984 (R.2017)	NTU	2
6	Total Dissolved Solids	IS 3025 (Part 16)-1984 (RA.2017)	mg/l	1730
7	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2019)	mg/l	124
8	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2019)	mg/l	504
9	Fluoride as F	IS 3025 (Part 60)-2008 (R.2019)	mg/l	0.45
10	Residual Free Chlorine	IS 3025 (Part 26) -2021	mg/l	BDL(DL:0.1)
11	Iron as Fe	IS 3025 (Part 53)-2003 (R.2019)	mg/l	0.53
12	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2019)	mg/l	85
13	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43/Sec 1) 2022	mg/l	BDL(DL:0.001)
14	Sulphate as SO ₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	203
15	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2019)	mg/l	572
16	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2019)	mg/l	659
17	Cyanide as CN	IS 3025 (Part 27/Sec-1) - 2021	mg/l	BDL(DL:0.01)
18	Total Suspended Solids	IS 3025 (Part 17) -1984 (RA.2021)	mg/l	6
19	Sodium as Na	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	326
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)
22	Chromium as Cr	IS 3025 (Part 52)-2003 (RA.2019)	mg/l	BDL(DL:0.01)

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For Chennai Testing Laboratory Pvt Ltd

A. Rajkumar

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Head - Water & Soil Division
(CHEMICAL)

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TEST REPORT

Test Report No & Date	CTL/CH/N-35363/2023-24 & 06.02.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS
23	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	< 2
24	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	< 4
25	Silica as SiO ₂	IS 3025 (Part 35)- 1988 (RA.2019)	mg/l	31
26	Potassium as K	IS 3025 (Part 45)-1993 (RA.2019)	mg/l	27
27	Dissolved Oxygen	IS 3025 (Part 38) - 1989 (RA.2019)	mg/l	6.8
28	Nitrate Nitrogen as N	IS 3025 (Part 34)-1988 (R.2019)	mg/l	6.09

BDL - Below Detection Limit; DL - Detection limit;

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A. RAJKUMAR
Head - Water & Soil Division
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ANNEXURE 3

TNPL-LSFM-CEMENT PLANT STACK SPM DATA FROM 01-SEP-2024 TO 30-SEP-2024

DATE	PM RABH STACK	PM COOLER ESP STACK	PM COALMILL STACK	PM CEMENT STACK	PM PACKAGING STACK	RABH Nox	RABH SO2
	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/Nm3	mg/Nm3
01/08/2024	2.76	2.40	1.63	2.86	6.29	31.30	0.00
02/08/2024	2.72	2.41	1.64	1.56	4.88	14.90	0.00
03/08/2024	2.71	2.39	1.65	2.38	6.92	0.60	0.00
04/08/2024	2.70	2.39	1.64	2.72	6.96	1.10	0.00
05/08/2024	2.69	2.54	1.60	2.05	6.62	2.70	0.20
06/08/2024	2.69	3.17	1.82	2.51	6.42	25.50	0.00
07/08/2024	5.05	2.45	7.95	1.80	4.65	46.90	0.00
08/08/2024	13.16	5.94	17.89	1.96	4.83	216.40	7.70
09/08/2024	13.55	4.47	21.20	2.35	6.77	254.30	11.50
10/08/2024	13.61	4.48	19.56	2.67	6.71	244.70	12.80
11/08/2024	13.52	4.23	21.59	2.55	7.29	250.40	12.30
12/08/2024	13.69	4.79	21.28	2.11	7.07	266.90	4.40
13/08/2024	13.20	5.04	21.44	3.44	7.19	256.80	10.00
14/08/2024	13.57	3.95	21.38	2.75	4.88	242.80	18.40
15/08/2024	13.19	4.12	19.80	2.37	5.19	282.00	14.70
16/08/2024	13.31	4.28	21.59	3.13	6.27	301.60	8.00
17/08/2024	13.35	4.17	20.41	3.27	6.17	305.00	3.40
18/08/2024	12.77	4.07	21.47	3.19	6.75	287.10	5.60
19/08/2024	13.13	3.87	18.13	2.27	5.34	272.10	6.30
20/08/2024	13.97	3.73	18.62	4.74	5.11	282.50	0.10
21/08/2024	13.95	8.37	16.97	5.84	4.21	285.30	7.40
22/08/2024	13.64	14.48	17.11	4.13	4.51	295.00	12.40
23/08/2024	13.85	17.26	17.33	3.77	3.90	301.70	7.30
24/08/2024	13.51	17.60	16.38	6.26	4.84	285.00	13.70
25/08/2024	13.70	15.83	17.06	4.54	4.79	299.40	14.60
26/08/2024	13.79	14.41	19.06	7.72	5.24	314.30	6.50
27/08/2024	12.64	12.46	16.50	5.95	4.48	291.70	1.00
28/08/2024	12.90	12.68	18.24	5.29	4.18	300.40	5.30
29/08/2024	13.02	13.28	18.07	5.18	4.26	332.50	3.90
30/08/2024	12.73	12.08	18.27	7.47	4.76	339.90	1.20
Min	2.69	2.39	1.60	1.56	3.90	0.60	0.00
Max	13.97	17.60	21.59	7.72	7.29	339.90	18.40
Avg	10.97	7.11	15.24	3.63	5.58	221.03	6.29

TNPL-LSFM-CEMENT PLANT STACK SPM DATA FROM 01-AUG-2024 TO 31-AUG-2024

DATE	PM RABH STACK	PM COOLER ESP STACK	PM COALMILL STACK	PM CEMENT STACK	PM PACKAGING STACK	RABH Nox	RABH SO ₂
	mg/m ³	mg/m ³	mg/m ³	mg/m ³	mg/m ³	mg/Nm ³	mg/Nm ³
01/08/2024	7.55	4.70	15.25	2.01	5.87	260.90	15.90
02/08/2024	7.31	4.35	17.66	1.88	4.57	275.50	19.10
03/08/2024	7.44	4.34	15.31	2.00	4.85	281.30	12.30
04/08/2024	7.53	4.05	15.42	1.59	4.83	266.50	8.80
05/08/2024	6.86	3.34	13.93	1.92	4.96	261.40	10.20
06/08/2024	7.15	4.29	15.34	1.56	5.32	307.30	14.20
07/08/2024	6.73	3.11	17.92	2.87	5.98	296.00	12.60
08/08/2024	7.23	4.49	16.02	2.17	6.01	304.20	9.80
09/08/2024	7.43	3.90	14.23	2.28	3.87	315.90	2.50
10/08/2024	7.74	4.15	16.12	1.83	5.36	305.30	1.90
11/08/2024	8.17	3.93	17.18	2.60	4.92	296.50	5.30
12/08/2024	8.31	4.11	18.31	2.15	5.93	263.70	14.30
13/08/2024	7.45	4.65	18.11	2.80	5.06	252.80	20.60
14/08/2024	7.92	4.12	20.30	2.30	5.47	256.60	18.50
15/08/2024	7.56	3.68	19.99	2.72	5.17	255.30	22.80
16/08/2024	7.49	3.48	20.36	2.32	5.81	264.70	34.80
17/08/2024	7.72	3.32	20.74	2.93	5.57	273.50	28.80
18/08/2024	7.75	3.62	20.83	2.17	4.56	287.90	14.10
19/08/2024	6.90	4.17	20.09	2.61	5.41	292.50	25.10
20/08/2024	7.00	4.11	20.98	3.37	6.41	304.60	21.50
21/08/2024	6.57	3.93	16.92	2.37	6.58	301.20	7.20
22/08/2024	7.16	3.46	10.28	2.97	7.52	295.00	8.90
23/08/2024	6.05	2.33	1.56	1.75	7.50	149.10	1.90
24/08/2024	2.70	2.39	1.57	2.40	7.36	110.30	12.60
25/08/2024	2.70	2.00	1.56	1.78	6.63	3.50	19.10
26/08/2024	2.69	2.18	1.60	1.98	6.70	6.10	9.40
27/08/2024	2.69	2.64	1.59	1.54	5.54	8.10	3.40
28/08/2024	2.69	2.39	1.59	1.70	6.32	14.50	0.90
29/08/2024	5.26	14.52	1.60	1.83	6.47	27.00	0.00
30/08/2024	7.29	21.05	1.64	1.57	7.26	44.10	0.00
31/08/2024	6.51	2.79	1.6	2.67	5.43	41.5	0
Min	2.69	2.00	1.56	1.54	3.87	3.50	0.00
Max	8.31	21.05	20.98	3.37	7.52	315.90	34.80
Avg	6.50	4.50	12.76	2.21	5.78	213.64	12.15

TNPL-LSFM-CEMENT PLANT STACK SPM DATA FROM 01-JULY-2024 TO 31-JULY-2024

DATE	PM RABH STACK	PM COOLER ESP STACK	PM COALMILL STACK	PM CEMENT STACK	PM PACKAGING STACK	RABH Nox	RABH SO ₂
	mg/m ³	mg/m ³	mg/m ³	mg/m ³	mg/m ³	mg/Nm ³	mg/Nm ³
01/07/2024	3.25	5.09	1.65	2.43	4.83	0.00	23.60
02/07/2024	2.69	4.46	1.66	2.38	5.95	0.00	22.20
03/07/2024	2.68	3.73	1.66	1.80	6.12	0.00	0.00
04/07/2024	2.68	2.65	1.66	2.07	5.79	0.00	0.00
05/07/2024	2.54	3.48	1.67	1.66	6.28	0.00	0.00
06/07/2024	2.69	2.67	1.64	2.13	4.99	0.00	0.00
07/07/2024	2.69	3.61	1.64	1.84	4.66	0.00	0.00
08/07/2024	2.69	2.62	6.13	2.12	5.74	0.00	0.00
09/07/2024	3.03	3.16	11.64	1.83	5.86	130.50	1.00
10/07/2024	6.33	4.12	16.61	2.47	6.51	183.90	2.70
11/07/2024	9.01	4.43	19.38	2.40	6.85	185.60	0.10
12/07/2024	8.88	4.31	17.74	2.46	6.76	161.00	0.00
13/07/2024	9.64	4.83	19.98	2.33	5.71	165.40	4.20
14/07/2024	9.02	5.18	19.75	2.57	5.50	171.20	3.10
15/07/2024	8.87	5.90	20.04	1.74	6.20	187.40	4.90
16/07/2024	8.95	5.81	18.19	2.99	5.60	241.90	3.80
17/07/2024	8.89	5.26	20.17	2.32	6.07	192.30	0.80
18/07/2024	8.98	5.03	18.13	2.69	5.40	233.50	1.60
19/07/2024	8.80	5.10	17.53	1.89	5.87	251.50	8.70
20/07/2024	8.82	5.28	20.01	2.67	4.80	211.00	16.00
21/07/2024	8.56	5.48	19.55	2.06	4.29	216.10	12.00
22/07/2024	8.30	4.32	16.43	2.35	4.55	235.10	6.20
23/07/2024	8.16	4.15	17.91	1.96	7.64	231.50	2.20
24/07/2024	7.78	3.98	17.00	2.17	6.97	215.20	14.10
25/07/2024	7.51	2.76	11.39	1.71	6.90	113.50	2.50
26/07/2024	8.03	3.30	16.95	1.84	5.88	244.00	11.60
27/07/2024	7.60	3.90	14.59	1.82	5.58	257.70	14.60
28/07/2024	7.06	4.32	12.76	1.66	6.61	271.00	7.50
29/07/2024	7.37	3.48	13.61	1.57	5.52	287.10	21.80
30/07/2024	7.16	4.35	18.89	1.73	5.82	271.90	33.30
31/07/2024	7.36	4.73	14.68	1.74	7.02	279.5	23.7
Min	2.54	2.62	1.64	1.57	4.29	0.00	0.00
Max	9.64	5.90	20.17	2.99	7.64	287.10	33.30
Avg	6.65	4.24	13.25	2.11	5.88	159.28	7.81

TNPL-LSFM-CEMENT PLANT STACK SPM DATA FROM 01-JUNE-2024 TO 30-JUNE-2024

DATE	PM RABH STACK	PM COOLER ESP STACK	PM COALMILL STACK	PM CEMENT STACK	PM PACKAGING STACK	RABH NOx	RABH SO2
	mg/m ³	mg/m ³	mg/m ³	mg/m ³	mg/m ³	mg/Nm ³	mg/Nm ³
01/06/2024	17.24	8.68	20.94	7.09	7.00	235.10	21.90
02/06/2024	15.33	8.35	20.23	15.53	5.33	262.40	19.00
03/06/2024	14.98	7.95	19.79	5.84	6.72	249.60	19.00
04/06/2024	15.16	8.58	18.82	6.70	6.14	263.00	20.20
05/06/2024	15.01	8.08	19.96	5.47	7.07	251.80	18.70
06/06/2024	15.13	11.18	20.43	5.92	6.09	254.50	19.60
07/06/2024	15.27	7.83	22.07	4.86	5.73	258.50	32.90
08/06/2024	14.38	8.37	21.20	4.29	5.59	213.10	23.60
09/06/2024	15.11	8.28	22.30	5.56	5.22	196.10	20.60
10/06/2024	15.46	8.08	22.70	4.22	8.97	197.10	17.60
11/06/2024	15.42	7.86	21.15	5.40	7.44	221.20	19.00
12/06/2024	15.22	7.30	20.82	2.38	4.39	214.90	14.70
13/06/2024	15.19	7.17	19.98	2.04	7.12	231.30	10.90
14/06/2024	10.27	6.61	19.60	2.93	8.01	212.20	8.60
15/06/2024	4.19	5.07	18.32	4.11	16.48	212.40	21.40
16/06/2024	3.96	4.72	16.97	4.23	7.57	210.20	26.70
17/06/2024	3.87	4.75	16.43	4.36	6.68	229.10	10.60
18/06/2024	4.12	4.70	16.54	4.31	7.22	284.40	29.30
19/06/2024	4.08	4.79	16.44	4.37	7.76	278.90	19.70
20/06/2024	3.93	4.98	14.71	5.20	6.78	301.60	8.60
21/06/2024	6.35	5.30	15.60	4.20	7.00	303.80	11.80
22/06/2024	9.58	4.59	17.01	3.47	7.13	313.20	8.50
23/06/2024	9.68	4.41	16.45	2.77	6.53	325.60	11.60
24/06/2024	9.46	4.35	17.19	3.10	6.66	324.40	10.50
25/06/2024	9.01	5.80	15.31	2.43	7.30	354.90	15.20
26/06/2024	9.57	4.64	13.39	2.52	6.62	327.50	14.00
27/06/2024	9.07	2.77	1.64	2.40	5.88	70.50	10.50
28/06/2024	7.25	2.53	1.63	2.21	5.46	9.90	20.90
29/06/2024	4.12	2.59	1.64	2.23	6.30	NA	NA
30/06/2024	2.67	2.45	1.65	1.61	5.69	NA	NA
Min	2.67	2.45	1.63	1.61	4.39	9.9	8.5
Max	17.24	11.18	22.70	15.53	16.48	354.90	32.90
Avg	10.34	6.09	16.36	4.39	6.93	243.11	17.34

TNPL-LSFM-CEMENT PLANT STACK SPM DATA FROM 01-MAY-2024 TO 31-MAY-2024

DATE	PM RABH STACK	PM COOLER ESP STACK	PM COALMILL STACK	PM CEMENT STACK	PM PACKAGING STACK	RABH Nox	RABH SO ₂
	mg/m ³	mg/m ³	mg/m ³	mg/m ³	mg/m ³	mg/Nm ³	mg/Nm ³
01/05/2024	16.84	6.62	21.38	2.17	10.43	107.00	2.30
02/05/2024	16.06	6.75	21.37	6.63	10.27	96.20	6.60
03/05/2024	16.12	6.47	21.59	3.64	11.52	92.70	13.20
04/05/2024	16.76	6.57	21.55	5.08	12.00	80.50	22.00
05/05/2024	17.03	6.81	21.45	4.42	12.18	70.70	35.30
06/05/2024	16.60	6.54	21.60	4.17	12.67	103.90	49.50
07/05/2024	16.32	6.69	21.56	4.29	12.26	161.60	35.20
08/05/2024	15.86	6.62	21.59	4.20	12.28	179.30	31.50
09/05/2024	16.80	6.57	21.66	5.22	13.40	194.90	39.80
10/05/2024	16.33	6.51	21.99	5.34	16.14	228.60	53.00
11/05/2024	17.60	6.31	21.96	4.21	16.19	194.50	56.30
12/05/2024	17.72	6.57	21.91	4.37	14.87	177.20	49.50
13/05/2024	17.00	6.87	22.26	5.10	15.89	217.30	61.40
14/05/2024	17.76	6.46	22.23	5.15	15.62	212.10	59.10
15/05/2024	17.85	6.73	22.35	4.94	16.74	211.20	52.80
16/05/2024	17.42	6.25	20.85	5.05	15.64	216.50	53.40
17/05/2024	9.23	4.96	10.89	5.56	14.33	2.80	30.60
18/05/2024	2.81	2.50	1.63	7.08	4.71	0.00	0.00
19/05/2024	2.81	2.48	1.62	2.34	4.16	0.00	0.00
20/05/2024	2.82	2.64	1.62	3.63	1.53	0.10	17.80
21/05/2024	2.86	2.57	1.66	4.55	0.58	0.00	0.00
22/05/2024	2.84	2.48	1.66	6.61	2.84	0.00	1.90
23/05/2024	8.02	3.87	1.66	3.51	6.06	0.00	11.10
24/05/2024	13.11	6.46	1.67	6.24	5.76	0.00	46.30
25/05/2024	6.43	6.22	1.66	4.51	7.36	14.90	28.10
26/05/2024	2.79	2.46	1.67	6.34	3.88	NA	NA
27/05/2024	7.70	2.50	1.67	4.59	6.96	135.10	0.00
28/05/2024	8.16	5.03	8.33	5.36	7.46	102.10	0.30
29/05/2024	16.41	7.48	14.04	5.09	6.80	157.20	7.90
30/05/2024	17.62	8.04	22.31	5.22	8.62	124.60	7.80
31/05/2024	17.81	8.66	20.33	10.8	8.8	210.6	3.1
Min	2.79	2.46	1.62	2.17	0.58	0.00	0.00
Max	17.85	8.66	22.35	10.80	16.74	228.60	61.40
Avg	12.63	5.60	14.18	5.01	9.93	109.72	25.86

TNPL-LSFM-CEMENT PLANT STACK SPM DATA FROM 01-APR-2024 TO 30-APR-2024

DATE	PM RABH STACK	PM COOLER ESP STACK	PM COALMILL STACK	PM CEMENT STACK	PM PACKAGING STACK	RABH NOx	RABH SO2
	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/Nm3	mg/Nm3
01/04/2024	15.72	6.94	21.18	5.55	7.52	325.40	46.20
02/04/2024	16.03	7.46	21.16	5.65	7.54	340.40	54.00
03/04/2024	16.37	7.05	21.25	2.82	8.07	356.60	52.60
04/04/2024	15.95	6.81	21.23	4.02	7.96	377.80	36.10
05/04/2024	16.14	6.83	21.18	4.00	7.70	372.50	40.00
06/04/2024	16.05	6.91	21.20	4.97	7.63	389.00	50.30
07/04/2024	16.30	7.08	21.23	2.42	7.21	389.30	53.20
08/04/2024	15.86	6.99	21.14	3.85	7.57	392.10	46.10
09/04/2024	16.52	6.88	21.53	4.51	9.09	398.30	31.30
10/04/2024	17.26	6.90	21.46	5.18	9.90	401.50	36.60
11/04/2024	16.12	6.78	21.59	7.30	9.69	437.70	44.50
12/04/2024	15.72	6.85	21.80	3.94	10.74	452.10	53.40
13/04/2024	15.47	6.71	21.54	6.76	11.84	448.00	42.50
14/04/2024	16.09	7.34	21.55	2.78	11.64	443.70	37.20
15/04/2024	16.03	6.77	21.55	5.44	12.19	445.70	42.80
16/04/2024	16.23	7.09	21.68	4.74	12.28	470.60	54.70
17/04/2024	16.13	6.94	21.62	4.32	11.96	487.10	69.10
18/04/2024	16.39	6.87	21.58	3.93	10.05	433.40	60.50
19/04/2024	16.57	6.99	21.58	2.13	11.03	363.50	51.10
20/04/2024	16.22	6.73	21.63	4.57	11.91	351.10	49.80
21/04/2024	16.42	7.01	21.61	2.78	12.26	390.00	43.90
22/04/2024	15.71	7.13	21.64	2.11	12.46	392.90	48.80
23/04/2024	16.62	7.10	21.64	4.52	10.97	415.10	68.70
24/04/2024	15.85	7.22	21.69	4.26	10.32	332.00	52.50
25/04/2024	16.31	6.97	21.60	3.56	9.19	257.60	15.50
26/04/2024	15.56	6.76	21.64	4.24	9.70	273.60	22.50
27/04/2024	16.49	6.86	21.75	4.30	10.30	150.50	22.30
28/04/2024	16.45	6.94	21.83	3.31	11.74	163.10	16.20
29/04/2024	15.63	6.81	21.79	4.33	11.18	202.30	27.80
30/04/2024	17.18	6.84	21.66	4.68	11.69	123.40	29.40
Min	15.47	6.71	21.14	2.11	7.21	123.40	15.50
Max	17.26	7.46	21.83	7.30	12.46	487.10	69.10
Avg	16.18	6.95	21.52	4.23	10.11	359.21	43.32

Calibration Certificate for D-R 290

RAN/CALIBDR290-202401-001

		Calibration Date	13-06-2024
Customer	TNPL LFSM Pugalur, Karur		
Instrument location	Coal Mill		
Device	Measuring Head	Reflector	Control Unit
Model Number	D-R 290 M	D-R 290 R1	D-R 290 AW2
Serial Number	1226243	1235439	Available
Calibration Pathlength		1485 mm	

Calibration details			
S.No	Parameter	Amplification factor	LED Pulse
1	LED INT. Calib.	# 099	623
2	ZERO INT. Calib.	# 135	623
3	SPAN Calib.	# 053	623
4	ZERO EXT. Calib.	# 041	623

Check cycle and output readings after Clear path calibration		
Parameter	Signal	Tolerance
Zero point check	0.0% 4.00 mA	0.0% \leftrightarrow 4.00 mA
Window Check	-0.3% 3.96 mA	0.0 to 0.2% \leftrightarrow 4.00 mA to 4.03 mA
Span Check	71.6% 15.47 mA	71.1 to 71.9% \leftrightarrow 15.41 mA to 15.49 mA
Output (OP)		
Optical density(OP1)	-0.000 3.99 mA	0.00 to 0.02 \leftrightarrow 4.00 mA to 4.03 mA
Optical density(OP2)	-0.000 3.99 mA	0.00 to 0.02 \leftrightarrow 4.00 mA to 4.03 mA

Check cycle and output readings after OFFSET calibration.		
Parameter	Signal	Tolerance
Zero point check	0.0% 4.00 mA	0.0% \leftrightarrow 4.00 mA
Window Check	0.2% 4.02 mA	0.0 to 0.2% \leftrightarrow 4.00 mA to 4.03 mA
Span Check	71.6% 15.47 mA	71.1 to 71.9% \leftrightarrow 15.41 mA to 15.49 mA
Output (OP)		
Optical density(OP1)	0.000 4.00 mA	0.00 to 0.02 \leftrightarrow 4.00 mA to 4.03 mA
Optical density(OP2)	0.000 4.00 mA	0.00 to 0.02 \leftrightarrow 4.00 mA to 4.03 mA

Note: Next Calibration Due Either by 12-06-2025 or on Replacement of Either Light source or Main PCB in Measuring Head of dust monitor.

For DURAG INDIA Instrumentation Private Limited

Authorized Signatory



DURAG INDIA INSTRUMENTATION PRIVATE LIMITED

28-B/1, K.I.A.D.B, Peenya 1st Stage | Peenya, Bengaluru 560 058 | Karnataka, India | Phone +91 80 68980 700 | Email info@durag.com

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

Commissionerate: Bengaluru-North West | Div: North West Div-1, Range-SNWD1

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

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

Calibration Certificate for D-R 290

REV. CALIBR290-201901-001

	Calibration Date	14-06-2024	
Customer	TNPL LFSM Pugalur, Karur		
Instrument location	RABH		
Device	Measuring Head	Reflector	Control Unit
Model Number	D-R 290 M	D-R 290 RII	D-R 290 AW2
Serial Number	1222170	1226272	Available
Calibration Pathlength		3105 mm	

Calibration details			
S.no	Parameter	Amplification factor	LED Pulse
1	LED INT. Calib.	# 043	2914
2	ZERO INT. Calib.	# 053	2914
3	SPAN Calib.	# 021	2914
4	ZERO EXT. Calib.	# 021	2914

Check cycle and output readings after Clear path calibration		
Parameter	Signal	Tolerance
Zero point check	0.0% 4.00 mA	0.0% +- 4.00 mA
Window Check	-0.1% 3.98 mA	0.0 to 0.2%+-4.00 mA to 4.03 mA
Span Check	71.8% 15.48 mA	71.1 to 71.9%+-15.41 mA to 15.49 mA
Output (OP)		
Optical density(OP1)	-0.002 3.98 mA	0.00 to 0.02+-4.00 mA to 4.03 mA
Optical density(OP2)	-0.000 3.99 mA	0.00 to 0.02+-4.00 mA to 4.03 mA

Check cycle and output readings after OFFSET calibration.		
Parameter	Signal	Tolerance
Zero point check	0.0% 4.00 mA	0.0% +- 4.00 mA
Window Check	0.2% 4.03mA	0.0 to 0.2%+-4.00 mA to 4.03 mA
Span Check	71.6% 15.47 mA	71.1 to 71.9%+-15.41 mA to 15.49 mA
Output (OP)		
Optical density(OP1)	0.000 4.00 mA	0.00 to 0.02+-4.00 mA to 4.03 mA
Optical density(OP2)	0.000 4.00 mA	0.00 to 0.02+-4.00 mA to 4.03 mA

Note: Next Calibration Due Either by 13-06-2025 or on Replacement of Either Light source or Main PCB in Measuring Head of dust monitor.

For DURAG INDIA Instrumentation Private Limited

Authorize Sign



DURAG INDIA INSTRUMENTATION PRIVATE LIMITED

28-B/1, K.I.A.D.B, Peenya 1st Stage | Peenya, Bengaluru 560 058 | Karnataka, India | Phone +91 80 68980 700 | info.india@durag.com

PAN: AACCD3792R | CIN:U33130KAJ006PTCO39133 | MSMED Reg No: 290201111591 | GSTIN Reg No: 29AACCD3792R1ZT

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

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

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

Calibration Certificate for D-R 290

REV CALIBRDR290_011901_001

	Calibration Date	14-06-2024	
Customer	TNPL LFSM Pugalur, Karur		
Instrument location	Cooler		
Device	Measuring Head	Reflector	Control Unit
Model Number	D-R 290 M	D-R 290 RH	D-R 290 AWZ
Serial Number	1226242	1225557	Available
Calibration Pathlength		2107 mm	

Calibration details			
S.no	Parameter	Amplification factor	LED Pulse
1	LED INT. Calib.	# 095	723
2	ZERO INT. Calib.	# 125	723
3	SPAN Calib.	# 049	723
4	ZERO EXT. Calib.	# 033	723

Check cycle and output readings after Clear path calibration		
Parameter	Signal	Tolerance
Zero point check	0.0% 4.00 mA	0.0% \pm 4.00 mA
Window Check	-0.2% 3.97 mA	0.0 to 0.2% \pm 4.00 mA to 4.03 mA
Span Check	71.9% 15.49 mA	71.1 to 71.9% \pm 15.41 mA to 15.49 mA
Output (OP)		
Optical density(OP1)	-0.000 3.99 mA	0.00 to 0.02 \pm 4.00 mA to 4.03 mA
Optical density(OP2)	-0.000 3.99 mA	0.00 to 0.02 \pm 4.00 mA to 4.03 mA

Check cycle and output readings after OFFSET calibration.		
Parameter	Signal	Tolerance
Zero point check	0.0% 4.00 mA	0.0% \pm 4.00 mA
Window Check	0.1% 4.01 mA	0.0 to 0.2% \pm 4.00 mA to 4.03 mA
Span Check	71.7% 15.48 mA	71.1 to 71.9% \pm 15.41 mA to 15.49 mA
Output (OP)		
Optical density(OP1)	0.000 4.00 mA	0.00 to 0.02 \pm 4.00 mA to 4.03 mA
Optical density(OP2)	0.000 4.00 mA	0.00 to 0.02 \pm 4.00 mA to 4.03 mA

Note: Next Calibration Due Either by 13-06-2025 or on Replacement of Either Light source or Main PCB in Measuring Head of dust monitor.

For DURAG INDIA Instrumentation Private Limited

Authorised Signature



DURAG INDIA INSTRUMENTATION PRIVATE LIMITED

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FAN: AACCD3792R | CIN: U33130KA2006PTCD39133 | MSMED Reg No: 290201111591 | GSTIN Reg No: 29AACCD3792R1ZT

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

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

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

Calibration Certificate for D-R 290

REV. CALIBR090-2019-001

	Calibration Date	13-06-2024	
Customer	TNPL, LFSM Pugalur, Karur		
Instrument location	Cement Mill		
Device	Measuring Head	Reflector	Control Unit
Model Number	D-R 290 M	D-R 290 RJ	D-R 290 AW2
Serial Number	1230889	1221566	Available
Calibration Pathlength		1384 mm	

Calibration details			
S.no	Parameter	Amplification factor	LED Pulse
1	LED INT. Calib.	# 063	2484
2	ZERO INT. Calib.	# 061	2484
3	SPAN Calib.	# 025	2484
4	ZERO EXT. Calib.	# 023	2484

Check cycle and output readings after Clear path calibration		
Parameter	Signal	Tolerance
Zero point check	0.0% 4.00 mA	0.0% \pm 4.00 mA
Window Check	-0.1% 3.98 mA	0.0 to 0.2% \pm 4.00 mA to 4.03 mA
Span Check	71.2% 15.43 mA	71.1 to 71.9% \pm 15.41 mA to 15.49 mA
Output (OP)		
Optical density(OP1)	-0.000 3.99 mA	0.00 to 0.02 \pm 4.00 mA to 4.03 mA
Optical density(OP2)	-0.000 3.99 mA	0.00 to 0.02 \pm 4.00 mA to 4.03 mA

Check cycle and output readings after OFFSET calibration.		
Parameter	Signal	Tolerance
Zero point check	0.0% 4.00 mA	0.0% \pm 4.00 mA
Window Check	0.0% 4.00 mA	0.0 to 0.2% \pm 4.00 mA to 4.03 mA
Span Check	71.6% 15.47 mA	71.1 to 71.9% \pm 15.41 mA to 15.49 mA
Output (OP)		
Optical density(OP1)	0.001 4.02 mA	0.00 to 0.02 \pm 4.00 mA to 4.03 mA
Optical density(OP2)	0.001 4.02 mA	0.00 to 0.02 \pm 4.00 mA to 4.03 mA

Note: Next Calibration Due Either by 12-06-2025 or on Replacement of Either Light source or Main PCB in Measuring Head of dust monitor.

For DURAG INDIA Instrumentation Private Limited

Authorized Signatory

 SRAVAN B S


DURAG INDIA INSTRUMENTATION PRIVATE LIMITED

28-B/2, K.I.A.D.B., Peenya 1st Stage | Peenya, Bengaluru 560 058 | Karnataka, India | Phone +91 80 68980 700 | info.india@durag.com

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

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

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

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

DURAG INDIA

Calibration Report D-R 808

Date: 13.06.2024

REV: CALIBR02020-2019-001

Customer Data:

Customer	TNPL LFSM Cement Plant
Address	Pugalur Karur 639136

Basic Data Type:

Stack Name	Packing Plant
Device Type	Measuring Head
Model Number	D-R 808
Serial Number	1320377
Calibration Pathlength	Distance is 1130 mm

Parameter Details:

Raw signal	Stray Light
Raw signal range	0 to 2000 SL
Analog signal output	Dust concentration.
Dust concentration range	0 to 100 mg/m ³
Integration time	30 Sec.

Calibration Details:

Calibration cycle	Output	Tolerance
Zero point	0.0 %	-0.1% to 0.2%
Pollution	0.3 %	< 9.0 %
Reference point	71.6 %	66.0% to 72.0%

Note: Next Calibration Due Either by or on 12.06.2024 Replacement of Either Light source or Main PCB in Measuring Head of dust monitor.

For Durag India Instrumentation Private Limited

Authorize Signature

DURAG INDIA INSTRUMENTATION PRIVATE LIMITED# 28-B/1, K.L.A.D.E, Peenya 1st Stage | Peenya, Bengaluru 560 058 | Karnataka, India | Phone: +91 80 68980 7000 | info@duragindia.com

PAN: AACCD3792R | CIN: U33130KA2006PTCO391133 | MSMED Reg No: 290201111591 | GSTIN Reg No: 29AACCD3792R1ZT

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

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

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

TNPCB Report of Analysis of STP Outlet for the period Apr'24 to Sep'24									
S.NO	PARAMETERS	Unit of measurement	Tolerance Limits as per CTO	Date of Sample collection					
				25.04.24	22.05.24	27.06.24	30.07.24		
1	pH	Number	5.5 - 9.0	7.11	7.04	6.95	7.11	Awaited	Awaited
2	Total Suspended Solids	mg/L	Max 30	08	08	06	18	Awaited	Awaited
3	BOD 3 days at 27°C	mg/L	max 20	06	04	04	13	Awaited	Awaited
4	Chemical Oxygen Demand	mg/L	-	48	32	32	96	Awaited	Awaited
5	Ammonical Nitrogen (as N)	mg/L	-	<5.0	<5.0	<5.0	<5.0	Awaited	Awaited
6	Total Nitrogen	mg/L	-	0.77	0.80	1.43	0.88	Awaited	Awaited
7	Fecal Coliform	mg/L	-	*	*	*	*	*	*

* Feecal Coliform - Facility is not available.

*Sample drawn by TNPCB officials during September 2024 and the results are awaited.

RAIN WATER HARVESTING

MARKETING OFFICE



ADMINISTRATIVE OFFICE



TIME OFFICE & CANTEEN



CCR BUILDING



TEST REPORT

Test Report No & Date	CTL/CH/N-35367/2023-24 & 12.02.2024
Sample Number	N-35367/23-24
Name of the Customer	M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED [LSFM PLANT],
Address	Kagithapuram - 639 136, Karur District, Tamil Nadu.
Sample Drawn by	Laboratory
Sample Name	Coal
Sample Description	Imported Coal
Sampling Location	Coal Storage Yard
Sample Drawn on	31.01.2024
Sample Received on	31.01.2024
Sampling Plan & Procedure	Grab Sample & CTL/QSP/10
Sample Quantity	2 Kg
Sample Condition	Good & Received in Packed Condition
Environmental Conditions	Temperature- 30.6°C and Humidity- 58.9%
Equipment used for Sampling	NA
Analysis Started on	01.02.2024
Analysis Completed on	12.02.2024

Test Results:

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

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Sulphur	IS 1350 (Part 3) : 1969 (RA 2000)	%	0.68
2	Volatile Matter	IS 1350 (Part 1) : 1984 (RA 2002)	%	28.62
3	Gross Calorific Value (ADB)	IS 1350 (Part 2) : 1970 (RA 2000)	Cals/g	5175
4	Total Ash	IS 1350 (Part 1) : 1984 (RA 2002)	%	24.32
5	Moisture	IS 1350 (Part 1) : 1984 (RA 2002)	%	9.24
6	Inherent Moisture		%	8.67
7	Chloride	FAO Method(Page No.48)2007 (Titrimetric Method)	%	3.7
8	Fluoride	CTL/MISC/SOP - 048	mg/kg	122
9	Iron as Fe	EPA 3050B-1996 (Rev-2) / EPA 7380 - 1986	%	0.342
10	Lead as Pb	EPA 3050B - 1996 (Rev -2)/EPA 7420 - 1986	mg/kg	BDL(DL-5.0)
11	Copper as Cu	EPA 3050B - 1996 (Rev -2)/EPA 7210-1986	mg/kg	BDL(DL-3.0)
12	Zinc as Zn	EPA 3050B - 1996 (Rev -2)/EPA 7950 - 1986	mg/kg	40.84
13	Selenium as Se	EPA 3050B-1996 (Rev -2)/EPA 7741A- 1994 (Rev-1)	mg/kg	BDL(DL-0.5)
14	Antimony as Sb	CTL/MISC/SOP - 062	mg/kg	BDL(DL-0.5)
15	Mercury as Hg	EPA 7471A-2007 (Rev-2)	mg/kg	1.22
16	Cadmium as Cd	EPA 3050B - 1996 (Rev -2)/EPA 7130-1986	mg/kg	BDL(DL-2.0)
17	Arsenic as As	EPA 3050B - 1996 (Rev -2)/EPA 7061A-1992 (Rev-1)	mg/kg	BDL(DL-0.1)
18	Chromium as Cr	EPA 3050B-1996 (Rev-2)/EPA 7190-1986	mg/kg	11.55
19	Nickel as Ni	EPA 3050B-1996 (Rev-2)/EPA 7520-1986	mg/kg	9.46
20	Vanadium as V	CTL/MISC/SOP - 059	mg/kg	BDL(DL-5.0)
21	Manganese as Mn	EPA 3050 B-1996 (Rev.2) / EPA 7460-1986	mg/kg	87.70
22	Cobalt as Co	EPA 3050B-1996 (Rev -2)/EPA 7200 - 1986	mg/kg	BDL(DL-5.0)
23	Tin as Sn*	USEPA 3050B/6010B : 1996	mg/kg	BLQ(LOQ-1.0)
24	Thallium as Tl*	USEPA 3050B/6010B : 1996	mg/kg	BLQ(LOQ-1.0)
25	Uranium as U*	BVILCH/INS/SOP-054 By ICP-MS	mg/kg	1.03

BDL-Below Detection Limit; DL - Detection Limit; BLQ-Below Limit Of Quantification; LOQ-Limit Of Quantification; *Outsourced

END OF REPORT

[Signature]
Verified by

For Chennai Testing Laboratory Pvt ltd

[Signature]

Authorised Signatory

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

Page 1 of 1

GREEN BELT DEVELOPMENT AT TNPL - 2024-25**ABSTRACT**

SL. NO	LOCATION	TOTAL AREA. IN HA	AREA TO BE COVERED UNDER GREEN COVER (33%) IN HA	GREEN COVER DEVELOPED IN HA	NO. OF TREES DEVELOPED	% OF GREEN BELT VS TOTAL AREA
1	MAIN PLANT	83.56	27.57 (33%)	32.11	103304	38.42%
2	CAPTIVE POWER PLANT	38.16	12.59(33%)	16.17	45503	42.37%
3	CEMENT PLANT	18.33	6.04(33%)	8.74	22078	47.68%
	TOTAL	140.05	46.20 (33%)	57.02	170885	40.71%

CEMENT PLANT

SL.NO	Name of the Tree	No.of Trees
1	Delonix regia (Gulmohar)	50
2	Peltophorum ferrugineum(Copper pod tree)	1960
3	Bahinia purpurea (Orchid tree)	185
4	Alstonia scholaris (Devil's tree)	41
5	Spathodea companulata (African tulip)	18
6	Wodetiya bifurca (Fox tail palm)	62
7	Oryodoxa regia (Royal palm)	10
8	Triangular palm	6
9	Azardirecta indica (Neem)	1158
10	Pongamia pinnata (Pungam)	149
11	Millingtonia hortensis (Tree jasmine)	240
12	Lagerstromia speciosa (Pride of India)	57
13	Cordea sebastena	10
14	Mimusops elengi (Makilam)	13
15	Ficus religiosa (Peepal)	2
16	Cassia fistula	5
17	Cassia siamea	127
18	Cassia nodosa	5
19	Casurina equisetifolia	14960
20	Dalbergia sisso	820
21	Eucalyptus sps	2200
	Total	22078

CREP compliance by TNPL Cement Plant, Kagithapuram (for the period between April'24 and September'24)

Sl. No.	Action Points in CREP	Compliance Status
1	Implementation of standards in non-complying units.	TNPL Cement Plant operations are in compliance with the latest notified norms.
2	Plants in critically polluted or urban area (5 km distance outside urban boundary) will meet 100 mg/Nm ³ SPM emission and continue working to reduce the emission of particulate matter to < 50 mg/ Nm ³ .	TNPL is operating the Cement Plant for SPM emissions < 30 mg/Nm ³ . Online monitoring system for SPM has been installed in the main stacks and linked to TNPCB 'Care Air Centre' since 23.01.2014. The stack emissions are in compliance with SPM norm of < 30 mg/NM ³ .
3	The new cement kilns to be accorded NOC/EC for complying 30 mg/Nm ³ emission limit.	TNPL is operating the plant with PM emissions < 30 mg/Nm ³ . All the major stacks viz Kiln, Coal mill, Cooler, Cement mill and Packing plant are connected online with the TNPCB 'Care Air Centre'.
4	CPCB will evolve load based standards by June 2004.	MoEF has evolved the Load Based Emission Norm of <227 g/Ton of Kiln Feed for the Cement Plant. TNPCB has recently conducted Stack Survey in TNPL Cement Plant (during Feb'24 & Aug'24) and the results were utilized to compute the load based emission for the average Kiln Feed of 671 & 626 TPD during monitoring period Feb'24 & Aug'24 respectively. The computed Load Based Emission is found to be 52 g/Ton & 30 g/Ton of Kiln Feed during monitoring period Feb'24 & Aug'24 respectively which is in compliance with the load based emission of < 227 g/Ton of Kiln Feed.
5	CPCB and NCBM will evolve SO ₂ and NOx emission standards by June 2004.	Will comply with the norms.
6	Control fugitive emissions from all the raw material and products storage and transfer points by December 2003. The feasibility for the control of fugitive emissions from limestone and coal storage areas will be decided by the NTF. The NTF shall submit its recommendations within three months.	In the Cement Plant, raw materials viz. crushed lime stone, coal, clay and gypsum are stored in fully covered/closed sheds. Lime sludge and fly ash (received from TNPL Paper Plant) are stored in closed RCC silos. Clinker and Cement are also stored in RCC silos only. TNPL has installed dust collection and extraction system at all material transfer points to control the fugitive emissions. All material transportations are done in closed pipe and fully closed/covered conveyors. Pneumatic system is in place for transporting fly ash from bowzers to silo and mechanical dosing for adding fly ash to cement mill. Besides, the following are implemented towards reduce impact on transportation of raw material and end products: 1. No overloading of transport vehicles with materials. 2. Loaded trucks covered with tarpaulin. 3. Vehicles with valid 'Pollution under Control' Certificates are allowed.

		<p>4. A separate Truck Parking Area is earmarked near the Main Gate which is fully concreted.</p> <p>5. Ramp with BT road is provided at the crusher.</p> <p>6. All the roads to the tune of 1.68 km are concretized.</p> <p>7. Mechanized road sweeping machine is used regularly for cleaning the roads to avoid fugitive emissions.</p> <p>8. Water sprinklers are provided in lime and coal handling areas.</p> <p>9. Wind barricades for a total length of 1260 meters with 20 feet above the compound wall are provided.</p>
7	CPCB, NCBM, BIS and oil refineries will jointly prepare the policy on use of pet coke as fuel by July 2003.	Will comply with the Recommendations / directions. Further, TNPL Cement plant is not using pet coke.
8	NTF will decide feasible unit operations/ sections for installation of continuous monitoring equipment. The industry will install the continuous monitoring systems (CMS) by December 2003.	All the major stacks viz Kiln, Coal mill, Cooler, Cement mill and Packing plant are connected online with the TNPCB 'Care Air Centre'.
9	Tripping in Kiln ESP to be minimized by July 2003.	TNPL has installed reverse air bag house (RABH) for Raw mill / Kiln circuit. So, tripping in Kiln ESP is not applicable.
10	Industries will submit the target date to enhance utilization of waste materials.	TNPL(LSFM) is already using waste materials like lime sludge and fly ash from the Paper Mill. TNPL had installed the Mini Cement plant only for handling of above solid wastes under "Lime Sludge Fly Ash Management". Towards this, M/s. TNPL is under progress for fixing the external NABL Accredited laboratory to carry out the feasibility study.
11	NCBM will carry out a study on hazardous waste utilization in cement kiln by December 2003.	Noted.
12	Cement industry will carry out feasibility study and submit target date to CPCB for cogeneration of power by July 2003.	TNPL Cement Plant do not have any Captive Power production facility as the entire power requirement for the plant is met from TNPL Captive Power Plant. Further, in Pyro Process of Cement plant, the Exit gases from rotary kiln and preheater having the temperature of around 400°C is used in Raw mills to dry incoming raw materials, lime sludge drying, coal mills for drying of coal and part of emission is being supplied for the production of Precipitated Calcium Carbonate in the M/s Omya India Private Limited located adjacent to TNPL Cement Unit. The balance quantity will only be emitted from the Kiln stack and hence co-generation of power is not feasible.



TAMIL NADU NEWSPRINT AND PAPERS LIMITED

EMS/Cement/16
17 August 2016

The APCCF(C),
Ministry of Environment, Forest & Climate change,
Regional Office (SEZ),
34, HEPC Building, Cathedral Garden Road,
Nungampakkam, Chennai 600 034.

Dear Sir,

Sub: TNPL Mini Cement Plant - enhancement of cement production capacity from 0.22MTPA (600 TPD) to 0.33 MTPA (900 TPD) - Responses received during public notice of EIA report- Submission of compliance report for implementation-reg

Ref: SEIAA-TN/ F-3082/KAR/ 3(b)/EXP/EC-8/2014 dated 12.03.2015

This has reference to the Environmental clearance (EC) accorded by SEIAA, Tamil Nadu for the project of modernization/upgradation of TNPL Cement Plant, Kagithapuram, Karur District for enhancement of cement production capacity from 0.22MTPA (600 TPD) to 0.33 MTPA (900 TPD) . In compliance to point no. 23 stipulated under special conditions of the EC cited under reference, we have implemented all the works against the responses received during public notice of EIA report by allocated a budget of Rs.25 lakhs. The details of implementation is submitted herewith.

This is for your kind information and records.

Thanking you,

For TAMIL NADU NEWSPRINT AND PAPERS LIMITED

(T.V. Loganathan)
General Manager (Civil)

Encl: as above.

- cc: (1) The Member Secretary, SEIAA, Tamil Nadu, 4D, Panagal Building,
No1., Jeenis Road, Saidapet, Chennai - 600 005.
(2) The Member Secretary, TNPCB, Chennai
(3) The Zonal Office (South), Central Pollution Control Board, 1st & 2nd Floors,
Nisarga Bhavan, A-Block, Thimmaiah Main Road, 7th D Cross, Bengaluru -560 010
(4) The Joint Chief Environmental Engineer, TNPCB, Thuvakudi, Trichy
(5) The District Environmental Engineer, TNPCB, Karur

o/c

**ACTION TAKEN ON RESPONSES RECEIVED DURING
PUBLIC NOTICE OF EIA OF THE TNPL MINI CEMENT PLANT
EXPANSION TO ENHANCE THE PRODUCTION FROM
0.22MTPA to 0.33MTPA**

SL. NO	DETAILS OF RESPONSES RECEIVED	DETAILS OF IMPLEMENTATION	STATUS OF IMPLEMENTATION	REFERENCE
1	Cleaning of bushes, debris along the road side leading to Moolimangalam to Moorthypalayam	All the bushes and debris along with road side leading to Moolimangalam to Moorthypalayam was cleared.	IMPLEMENTED.	The photographs depicting implementation is submitted as Annexure I
2	Construction of parapet wall to the well situated at Nanaparappu village.	The parapet wall of the well located in the Mariamman temple of Nanaparappu village was constructed and the bushes around the well area was also cleaned.	IMPLEMENTED.	The photographs depicting implementation is submitted as Annexure II
3	Construction of ladies toilet at Moolimangalam village	One toilet for exclusive use of ladies was constructed in the Moolimangalam village.	IMPLEMENTED.	The photographs depicting implementation is submitted as Annexure III
4	Construction of compound wall to Panchayat Union Primary School, Moorthypalayam	Compound wall for the Panchayat Union Primary School located in the Moorthypalayam was constructed.	IMPLEMENTED.	The photographs depicting implementation is submitted as Annexure IV.
5	Construction of retaining wall for storm water ravine going through Moorthypalayam village.	Construction of retaining wall for storm water ravine going through Moorthypalayam village was completed.	IMPLEMENTED.	The photographs depicting implementation is submitted as Annexure V.
6	Repairing and relaying of damaged BT (Black Topped) road in P.Thottakuruchi	Repairing and relaying of damaged Black Topped (BT) road in Punjal Thottakuruchi was completed.	IMPLEMENTED.	The photographs depicting implementation is submitted as Annexure VI



1. Bushes being cleared by JCB



2. Debris being collected by JCB



3. Cleared bushes and debris are loaded in tipper for disposal



4. Cleaned road from Moolimangalam to Murthipalayam



1. Overall view of parapet wall constructed



2. Well entry point



3. Approach steps to the well



4. Close view of the constructed parapet wall



Public toilet at constructed at Moolimangalam



**Photograph of Murthypalayam Panchayat
Union Primary School compound wall (View
from outside premises)**



**Photograph of Murthypalayam Panchayat
Union Primary School compound wall (View
from inside premises)**



**Overall view of storm water ravine
constructed at Murthypalayam village**



**Close view of the storm water ravine
constructed at Murthypalayam village**



**View of Black Topped road repaired and relayed by TNPL
at Punjai Thottakurchi village**

CSR EXPENDITURE FROM APR-2024 TO SEP-2024		
SL. NO.	SECTOR	APRIL 2024 TO SEP-2024 EXPENDITURE (Rs.In Lakhs)
1. EDUCATION		
1	SPONSORING OF STUDENTS TO UNDERGO DIPLOMA IN PAPER TECHNOLOGY AT SIT, TRICHY: TNPL has sponsored to 5 students for the year 2024-2025 (Unit-I -3 students and Unit-II - 2 Students) belonging to surrounding villages of Unit-I & Unit-II to undergo 3 and 1/2 years Diploma course in Paper Technology at Shashesayee Institute of Technology (SIT),Trichy.	8.06
2	RUNNING INDUSTRIAL TRAINING INSTITUTE (ITI): Industrial Training Institute in affiliation with National Council Vocational Training (NCVT) and the Quality Council of India (QCI) is being run through TNPL Arakkodai Trust, covering four trades Viz. Instrument Mechanic, Fitter, Electrician and Welder.	23.18
3	In order to promote reading habit among the school and college Students, TNPL has Sponsored to organize 3rd Book Fair-2024 at Prem Mahal, Karur	5.00
4	To promote the Sports activities in Karur District, TNPL has Contributed to organize 64th All India Basketball tournament at Karur	0.50
5	To promote sports activities among the Girl students, TNPL has sponsored to organize Kabaddi Tournament at Arasu College of Arts & Science for Women, Panduthakaranpudur	0.50
6	TNPL has distributed Food, Tea, Snacks and infrasture facilities to organize "Republic Day Athletic sports meet" by Govt Boys Hr.Sec. School, Nerur at TNPL Stadium.	0.73
7	TNPL has distributed Food, Tea, Snacks and infrasture facilities to organize Zonal Level Athletic Event by Govt. Hr. Sec. School, Pavithram at TNPL Stadium.	0.44
8	In order to promote Yoga, TNPL has provided Financial assistance to organize 4th Tamilnadu State Level Yoga Competition at Karur.	0.50
9	TNPL has distributed Food, Tea, Snacks and infrasture facilities to organize district level Athletic sports meet organized by Govt. Boys Hr. Sec. School, Vangal at TNPL Stadium.	0.92
SUB TOTAL		39.83

2. HEALTH CARE		
1	<p>1. Organized Blood Donation Camp in association with Govt Medical College Hospital, Karur on 15.06.2024. Totally 174 persons have donated blood.</p> <p>2. Eye camp was conducted in association with Madurai Aravind Eye Hospital; around 820 people were benefited from this eye camp. Spectacles were distributed to 354 people and 118 patients were underwent cataract Eye surgery at free of cost.</p> <p>3. General Medical Camp was organized on 22.09.2024 in association with M/s. Royal Care Hospital, Coimbatore. Totally, 656 patients were screened in this camp. Medicines were distributed at free of cost.</p>	4.71
2	<p><u>ORGANIZING MONTHLY MOBILE CAMPS:</u> TNPL Monthly Mobile Medical camp was organized in the surrounding villages viz. Onavakkalmedu, Nalliyampalayam, Sottaiyur, Moolimangalam, Pazhamapuram, Masagoundapuram, Kurukkupalayam, Nanapparappu and Kandasamipalayam. Totally 878 people were screened and medicines worth Rs.47,984/- were distributed at free of cost.</p>	0.48
SUB TOTAL		5.19

3. COMMUNITY DEVELOPMENT & INFRASTRUCTURE DEVELOPMENT		
1	Tailoring, Computer and Typewriting training has been given to unemployed youth in the neighbouring villages for enhancing employability skills / entrepreneurship skills.	1.86
2	DISTRIBUTION OF DRINKING WATER: Distributing Drinking water to the surrounding villages viz. 1)Palamapuram, 2)Pandipalayam, 3)Thathampalayam, 4)Moolimangalam, 5)Ponniagoundanpudur, 6)Narippalli Thottam, 7)Kariyampatti, 8)Kandasampalayam, 9)Velliyampalayam, 10)Sullikaradu, and Chatram road. 11) Nanaparappu 12)Thannasigoundanputhur 13) Thunduperumal Palayam and TEWLIS Ayacut areas etc.,	15.84
3	TNPL has contributed for fixing of High Mast lights at various places of Punjai Thottakurichi Town Panchayat, Karur district.	11.81
4	TNPL has contributed flood relief efforts for the affected people of Thavittupalayam village.	0.57
5	TNPL has constructed a new library building at Thirukkaduthurai Village.	7.48
6	TNPL has contributed to N.Pugalur panchayat to provide drinking water to Kattipalayam village.	7.40
SUB TOTAL		44.96

4. ENVIRONMENT & SOIL QUALITY		
1	To reduce ploythene bags usage and to save soil health, TNPL has installed Cloth bag vending machine at District Collector Office, Karur.	1.03
2	TNPL is providing JCB for clearing bushes and debris at Pazhamapuram, Thathampalayam, and from Natha Kinathu Vinayagar temple to Muniyappaswamy temple in Moorthipalayam.	0.60
3	Organising training to farmers for Coconut cultivation through Tamil Nadu Agriculture University (TNAU)	0.77
SUB TOTAL		2.40
5. CULTURE & HERITAGE		
PRESERVATION OF HERITAGE BUILDINGS INCLUDING PLACES OF WORSHIP:		
1	Infrastructure works to preserve Heritage Buildings including Place of worship in Karur District. TNPL has provided financial assistance for the construction, extension and kumbabisheham (Consecration ceremony) of 12 temples in and around factory premises.	5.50
SUB TOTAL		5.50
GRAND TOTAL		97.88

"DINAMANI"
TRICHY EDITION
DATE: 25/03/2015



தமிழ்நாடு செய்தித்தாள் காசீத நிறுவனம்

காசீதபுரம் - 639 136, கரு மாவட்டம், தமிழ்நாடு, இந்தியா.
தொலைபேசி: 04324 - 277 001; நகர: 04324-277 027 மின் அஞ்சல்: tnpl@tnpl.co.in

பொது அறிவிப்பு

தமிழ்நாடு செய்தித்தாள் காசீத நிறுவனம் சிமெண்ட் ஆலை (TNPL CEMENT), தனது உற்பத்திநிறுவன ஆண்டொன்றுக்கு 0.22 மில்லியன் டன்களிலிருந்து 0.33 மில்லியன் டன்களாக உயர்த்தும் பொதுட்டு மேற்கொள்ளவேண்டியும் நவீன மயமாக்குதல் மற்றும் மேம்படுத்துதல் திட்டத்தை செயல்படுத்துவதற்கான சுற்றுச்சூழல் அனுமதியினை மாநில சுற்றுச்சூழல் தாக்கம் மதிப்பீட்டு ஆணையம், தமிழ்நாடு (SEIAA-TN) தனது 12-03-2015 தேதியிட்ட ஆணையின் மூலம் வழங்கியுள்ளது என இதன்மூலம் அறிவிக்கப்படுகிறது.

மேற்படி அனுமதி நகலை தமிழ்நாடு மாசுக்கட்டுப்பாட்டு வாரியம் அலுவலகத்திலும் மற்றும் மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் இணையத்தளமான <http://www.seiaa.tn.gov.in>-ஐயும் பார்த்து தெரிந்துகொள்ளலாம்.

செ.ம.நெ.கி/329/வக/செ.ம.நெ.2015

இயக்குநர் (இயக்கம்)



TAMILNADU NEWSPRINT AND PAPERS LIMITED

KAGITHAPURAM-639 136, KARUR DIST., TAMILNADU, INDIA
PHONE: 04324-277001; FAX: 04324-277027 Mail: pmd@tnpl.co.in

PUBLIC NOTICE

This is to inform that "State Level Environment Impact Assessment Authority, Tamil Nadu" has accorded Environmental Clearance for the project of Modernization/Upgradation of M/s Tamil Nadu Newsprint and Papers Limited - Cement Plant to enhance its production capacity from 600 TPD (0.22 MTPA) to 900 TPD (0.33MTPA) vide its Order dated 12.03.2015.

Copies of the clearance letter is available with the Tamil Nadu State Pollution Control Board and may also be seen at the Website of SEIAA at <http://www.seiaa.tn.gov.in>.

DIPR/329/Display/2015

DIRECTOR (OPERATIONS)



TAMIL NADU NEWSPRINT AND PAPERS LIMITED

ENV/CEMENT/15
March 26, 2015

The Executive Officer,
Kagithapuram Town Panchayat,
Kagithapuram,
Karur District

Sir,

Sub: TNPL Mini Cement Plant Expansion - Intimation on issuance of EC -reg.

With reference to subject matter, we would like to inform that "State Level Environment Impact Assessment Authority, Tamil Nadu" has accorded Environmental Clearance for the project of Modernization/ Upgradation of M/s TNPL CEMENT PLANT to enhance it's capacity from 0.22 Million Tons per Annum to 0.33 Million Tons per Annum vide its order dated 12.03.2015.

A copy of the Environmental Clearance letter is enclosed herewith.

This is for your kind information.

Thanking you,

Yours Faithfully,
For TAMIL NADU NEWSPRINT AND PAPERS LIMITED,

8/
Rana → 26 03 15
(R.MANI)
Director (Operations)

o/c



TAMIL NADU NEWSPRINT AND PAPERS LIMITED

ENV/CEMENT/15
26- மார்ச் -2015

திரு. ரா. இராஜேந்திரன் அவர்கள்,
த/பெ. திரு. இராசுப்பன்,
மூலிமங்கலம் கிராமம்,
கரூர் மாவட்டம்

ஐயா,

தமிழ்நாடு செய்தித்தாள் காகித நிறுவனம் சிமென்ட் ஆலை (TNPL CEMENT). தனது உற்பத்தித்திறனை ஆண்டொன்றுக்கு 0.22 மில்லியன் டன்களிலிருந்து 0.33 மில்லியன் டன்களாக உயர்த்தும் பொருட்டு மேற்கொள்ளவிருக்கும் நவீன மயமாக்குதல் மற்றும் மேம்படுத்துதல் திட்டத்தை செயல்படுத்துவதற்கான சுற்றுச்சூழல் அனுமதியினை மாநில சுற்றுச்சூழல் தாக்கம் மதிப்பீட்டு ஆணையம், தமிழ்நாடு (SEIAA-TN)- தனது 12-03-2015 தேதியிட்ட ஆணையின் மூலம் வழங்கியுள்ளது.

சுற்றுச்சூழல் அனுமதி ஆணையின் நகல் தகவலுக்காக இத்துடன் இணைக்கப்பட்டுள்ளது.

இப்படிக்கு,

தங்கள் உண்மையுள்ள,

தமிழ்நாடு செய்தித்தாள் காகித நிறுவனத்திற்காக,

ரா. மணி 26.03.15

(ரா. மணி)

இயக்குநர் (இயக்கம்)

o/c



TAMIL NADU NEWSPRINT AND PAPERS LIMITED

ENV/CEMENT/15
26- மார்ச் -2015

திரு. கு. தங்கவேல் அவர்கள்,
25, நல்லியம்பாளையம்,
மூலிமங்கலம் (PO),
கரூர் மாவட்டம்

ஐயா,

தமிழ்நாடு செய்தித்தாள் காகித நிறுவனம் சிமெண்ட் ஆலை (TNPL CEMENT). தனது உற்பத்தித்திறனை ஆண்டொன்றுக்கு 0.22 மில்லியன் டன்களிலிருந்து 0.33 மில்லியன் டன்களாக உயர்த்தும் பொருட்டு மேற்கொள்ளவிருக்கும் நவீன மயமாக்குதல் மற்றும் மேம்படுத்துதல் திட்டத்தை செயல்படுத்துவதற்கான சுற்றுச்சூழல் அனுமதியினை மாநில சுற்றுச்சூழல் தாக்கம் மதிப்பீட்டு ஆணையம், தமிழ்நாடு (SEIAA-TN)- தனது 12-03-2015 தேதியிட்ட ஆணையின் மூலம் வழங்கியுள்ளது.

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ரா. மணி
26.03.15

(ரா. மணி)

இயக்குநர் (இயக்கம்)

de



TAMIL NADU NEWSPRINT AND PAPERS LIMITED

ENV/CEMENT/15
26- மார்ச் -2015

திரு. R. கணேசன் அவர்கள்,
24, நல்லியாம்பாளையம்,
மூலிமங்கலம் (PO),
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 ரா. மணி 26.03.15

(ரா. மணி)

இயக்குநர் (இயக்கம்)

o/c



TAMIL NADU NEWSPRINT AND PAPERS LIMITED

ENV/CEMENT/15
26- மார்ச் -2015

திரு. P. சிவசுப்பிரமணி அவர்கள்,
மூர்த்திபாளையம்,
ஓரத்தை (PO),
கடநர் மாவட்டம்

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இப்படிக்கு,

தங்கள் உண்மையுள்ள,

தமிழ்நாடு செய்தித்தாள் காகித நிறுவனத்திற்காக,

ரா. மணி
26.03.15

(ரா. மணி)

இயக்குநர் (இயக்கம்)

o/c

**TAMILNADU POLLUTION CONTROL BOARD**

Category of the Industry :

RED**CONSENT ORDER NO. 2208144149537 DATED: 25/08/2022.****PROCEEDINGS NO.T4/TNPCB/F.0063KAR/RL/KAR/W/2022 DATED: 25/08/2022**

SUB: Tamil Nadu Pollution Control Board - RENEWAL OF CONSENT - M/s. M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - MINI CEMENT PLANT , S.F.No. 841,842,843,844,809&837, PUNJAI PUGALUR SOUTH village, Pugalur Taluk and Karur District - Renewal of 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. Proc.No. T9/TNPCB/F.0063KAR/RL/KAR/W&A/2017 DATED: 13/04/2017
2. IR.No : F.0063KAR/RL/JCFE-M/KAR/2022 dated 27/07/2022

RENEWAL OF CONSENT 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

EXECUTIVE DIRECTOR (OPERATIONS)

M/s M/S TAMIL NADU NEWSPRINT AND PAPERS LIMITED - MINI CEMENT PLANT,

S F No. 841,842,843,844,809&837,

PUNJAI PUGALUR SOUTH Village ,

Pugalur Taluk ,

Karur 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 RENEWAL OF CONSENT is valid for the period ending March 31, 2027

RAGUPATHI
SANGANAN

Digitally signed by Ragupathi
Sanganan
Date: 2022.08.25 16:40:02 +05'30'

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



TAMILNADU POLLUTION CONTROL BOARD

SPECIAL CONDITIONS

1. This renewal of consent is valid for operating the facility for the manufacture of products/byproducts (Col. 2) at the rate (Col 3) mentioned below. Any change in the product/byproduct and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
Product Details			
1.	Ordinary Portland Cement and Portland Pozzalana Cemen	0.33	MTPA (Million Tons Per Annum)

2. This renewal of consent is valid for operating the facility with the below mentioned outlets for the discharge of sewage/trade effluent. Any change in the outlets and the quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Outlet No.	Description of Outlet	Maximum daily discharge in KLD	Point of disposal
Effluent Type : Sewage			
1.	Treated sewage	5.0	Dust Control
2.	Treated sewage	13.0	Green belt development
Effluent Type : Trade Effluent			



TAMILNADU POLLUTION CONTROL BOARD

Special Additional Conditions:

The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

Additional Conditions:

1. The unit shall operate and maintain the Sewage Treatment Plant continuously and efficiently and ensure that the treated sewage is utilized for gardening and greenbelt development.
2. The industry shall ensure that no trade effluent is generated at any stage of its manufacturing process.
3. The unit shall explore the possibilities of Co-processing ETP sludge from the textile CETP members in Karur on obtaining necessary permission from CPCB and TNPCB.
4. The unit shall maintain the Thermal Substitution Ratio (TSR) and shall ensure that necessary infrastructure facilities such as feeding system, conveyor systems, etc., are provided for co processing to achieve 10 % TSR.
5. The unit shall ensure that the coal is stored in closed shed only and water used for coal wetting shall be collected and reused.
6. All internal roads shall be cleaned with road sweeper then and there and the house keeping should be done all the time effectively and water sprinkling shall be done frequently so as to arrest the dust spreading due to vehicular movement.
7. The unit shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65-2017-1A. II dated: 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
8. 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 industry premises. Instead it shall encourage use of eco friendly alternative such as banana leaf, areca nut palm plate, stainless steel, glass, porcelain plates/cups, cloth bag, Jute bag etc.,
9. This consent order does not absolve from obtaining necessary permission / clearance from other Authority or under other Statute as applicable.

RAGUPATHI
SANGANAN

Digitally signed by RAGUPATHI
SANGANAN
Date: 2022.09.25 16:04:32 +05:30

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

To
EXECUTIVE DIRECTOR (OPERATIONS),
M's M S TAMIL NADU NEWSPRINT AND PAPERS LIMITED - MINI CEMENT PLANT,
67, MOUNT ROAD, GUINDY, CHENNAI 32,
Pin: 600032

Copy to:

- 1 The Executive Officer, T.N.P.L. PUGALUR-Town Panchayat, Pugalur Taluk, Karur District.
- 2 The District Environmental Engineer, Tamil Nadu Pollution Control Board, KARUR.
- 3 The JCEI-Monitoring, Tamil Nadu Pollution Control Board, Salem.
- 4 File



TAMILNADU POLLUTION CONTROL BOARD

Category of the Industry -

RED



CONSENT ORDER NO. 2208244149537

DATED: 25/08/2022.

PROCEEDINGS NO.T4/TNPCB/F.0063KAR/RL/KAR/A/2022 DATED: 25/08/2022

SUB: Tamil Nadu Pollution Control Board - RENEWAL OF CONSENT -M/s. M/S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - MINI CEMENT PLANT , S.F.No. 841,842,843,844,809&837, PUNJAI PUGALUR SOUTH village, Pugalur Taluk and Karur District - Renewal of Consent for the 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. Proc.No. T9/TNPCB/F.0063KAR/RL/KAR/W&A/2017 DATED: 13/04/2017
2. IR.No : F.0063KAR/RL/JCEE-M/KAR/2022 dated 27/07/2022

RENEWAL OF CONSENT 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

EXECUTIVE DIRECTOR (OPERATIONS)

M/s.M.S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - MINI CEMENT PLANT,
S.F.No. 841,842,843,844,809&837,
PUNJAI PUGALUR SOUTH village,
Pugalur Taluk,
Karur 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 RENEWAL OF CONSENT is valid for the period ending March 31, 2027

RAGUPATHI
SANGANAN

Digital signed by RAGUPATHI
SANGANAN
Date 2022.08.21 10:30:06 +05'30'

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai



TAMILNADU POLLUTION CONTROL BOARD

SPECIAL CONDITIONS

1. This renewal of consent is valid for operating the facility for the manufacture of products (Col. 2) at the rate (Col. 3) mentioned below. Any change in the products and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
Product Details			
1.	Ordinary Portland Cement and Portland Pozzalana Cemen	0.33	MTPA (Million Tons Per Annum)

2. This renewal of consent is valid for operating the facility with the below mentioned emission noise sources along with the control measures and/or stack. Any change in the emission source/control measures/change in stack height has to be brought to the notice of the Board and fresh consent Amendment has to be obtained.

I Point source emission with stack :				
Stack No.	Point Emission Source	Air pollution Control measures	Stack height from Ground Level in m	Gaseous Discharge in Nm ³ /hr
1	Limestone Crusher	Bag Filters with stack	10	3162
2	Kiln Raw Mill	Reverse Air Bag House with Stack	55	70005
3	Clinker Cooler	ESP with stack	40	22861
4	Coal Mill	Bag Filters with stack	40	6313
5	Cement Mill	Bag Filters with stack	55	8221
6	Packing Plant	Bag Filters with stack	40	4130
7	Chloride bypass system	Bag Filters with stack	69.3	9048
8	Limestone Secondary Crusher Stack I	Bag Filters with stack	39.6	17000
9	Limestone Secondary Crusher Stack II	Bag Filters with stack	39.6	27000
II Fugitive/Noise emission :				
Sl. No.	Fugitive or Noise Emission sources	Type of emission	Control measures	
1.	Limestone crushing area	Fugitive	Bag Filter	
2.	Coal Handling Area	Fugitive	Water sprinkler system	
3.	Clinker cooler area	Fugitive	Bag Filter	
4.	Cement Mill area	Fugitive	Bag Filter	
5.	fly ash handling area	Fugitive	Bag Filter	



TAMILNADU POLLUTION CONTROL BOARD

Special Additional Conditions:

- i. The unit shall install the approved retrofit emission control device/equipment with at least 70% Particulate matter reduction efficiency on all DG sets with capacity of 125 KVA and above or otherwise the unit shall be shift to gas based generators within the time frame prescribed in the notification No. TNPCB/Labs/DD(L)02151/2019 dated 10.06.2020 issued by TNPCB.
- ii. The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

Additional Conditions:

1. The Unit shall operate and maintain the Air Pollution Control measures effectively and continuously so that the emission shall satisfy the Ambient Air Quality/Emission standards prescribed by the Board & MoEF & CC at all times.
2. The Unit shall ensure the online connectivity with Care Air Centre of TNPCB, Chennai to provide proper quality data at all times.
3. The Unit shall comply with the CPCB guidelines issued for prevention and control of fugitive emissions from cement plants as in PROBES/118/ 2007 dated: 06.07.2007.
4. The Unit shall comply with emission standards as prescribed in MoEF & CC notification dated: 25.08.2014 and 09.05.2016.
5. The unit shall maintain and calibrate the online continuous stack monitoring system regularly so as to transmit good quality data at all times.
6. The performance efficiency of the APC devices shall be conducted every year and shall ensure that the APC devices are working as per the design capacity. If there is any enhancement of production the unit shall justify the adequacy of the APC devices.
7. Fugitive emission monitoring shall be conducted at cement mill, coal mill and Raw material handling area and the report shall be submitted to TNPCB.
8. All continuous emission monitoring systems should be operated as per CPCB CEMs guidelines and the data shall be transmitted as per guidelines. The performance calibration shall be conducted once in a year and report shall be submitted to TNPCB.
9. The unit shall conduct a comprehensive Environmental audit through a laboratory approved by CPCB MoEF once in a year which includes water audit, ETP/STP adequacy & efficacy, APCD performance efficiency etc, and shall furnish report to TNPCB.
10. This consent order does not absolve from obtaining necessary permission / clearance from other Authority or under other Statute as applicable.
11. The unit shall continue to develop greenbelt in and around the premises of the unit.
12. In case of revision of consent fee by the Government, the unit shall remit the difference in amount within one month from the date of notification, failing to remit the consent fee, this consent order will be withdrawn without any notice and further action will be initiated against the unit as per law

RAGUPATHI

SANGANAN

Digital Signature: MCLP0119
SANGANAN

Date: 2022/06/27 10:20:51 AM IST

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

To

EXECUTIVE DIRECTOR (OPERATIONS),

M/S M.S. TAMIL NADU NEWSPRINT AND PAPERS LIMITED - MINI CEMENT PLANT,

67, MOUNT ROAD, GUINDY, CHENNAI 32.

Pin: 600032

Copy to:

1. The Executive Officer, T.N.P.L. PUGALUR-Town Panchayat, Pugalur Taluk, Karur District.
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, KARUR.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Salem.
4. File.



TAMILNADU POLLUTION CONTROL BOARD

SUBMITTING DETAILS OF SIX MONTHLY COMPLIANCE REPORT

SL.NO	Description	Submitted on
01	First report	05/12/2015
02	Second report	25/06/2016
03	Third report	27/10/2016
04	Fourth report	04/05/2017
05	Fifth report	08/11/2017
06	Sixth report	05/04/2018
07	Seventh report	28/09/2018
08	Eight report	16/07/2019
09	Ninth report	15/11/2019
10	Tenth report	28/05/2020
11	Eleventh report	21/11/2020
12	Twelfth report	17/08/2021
13	Thirteenth report	13/12/2021
14	Fourteenth report	18/06/2022
15	Fifteenth report	29/11/2022
16	Sixteenth report	31/03/2023
17	Seventeen report	25/11/2023
18	Eighteenth report	21/05/2024
19	Nineteenth report	Current report

Six monthly EC compliance report for the period from 01/04/24 to 30/09/24

Tamil Nadu Newsprint and Papers Limited (TNPL) take great care of health of its employees and their dependents. Various schemes in vogue stand a testimony to the care and concern shown by the company towards the health of its employees and their dependents.

OCCUPATIONAL HEALTH CENTRE (OHC):-

TNPL has an Occupational Health Centre manned by qualified and experienced 5 Medical Officers, paramedical staff of 3 nurses, 2 pharmacists, one ANM, 2 male attenders, 3 female attenders and 10 Ambulance drivers.

The scope of the TNPL Occupational Health Centre includes Preventing occupational hazards at work, protecting workers against hazards at work, help in adapting work and the work environment to the capabilities of the worker, promoting the physical, mental and social well-being of workers and rehabilitation of accidental occupational injuries.

The main objective of the TNPL OHC are,

- To provide medical treatment and support in case of an emergency illness or accident.
- To monitor, manage and modify any adverse health effects which may occur at the workplace.
- To promote good health at the workplace.
- To plan and execute health education and awareness programs for employees.

The major activities at TNPL are,

- Medical surveillance through measures such as periodical medical check-ups.
- Pre-employment medical check-ups.
- Medical treatment for illness and accidents.
- Conducting health education programs.
- Providing first aid and other related training to the employees.
- Promoting health awareness and wellness measures among employees.

The OHC renders free Medical treatment and guidance to the employees and their family members. An Amount of Rs. 6.00 lakhs per annum is spent towards medicines. Apart from the above facility, Specialists from various hospitals visit OHC on Sundays. Ambulance facility is extended to the employees to provide emergency treatment. TNPL conducts medical camp every month to attend to the health needs of the neighborhood population. Special medical camps in various specialties are conducted once in 3 months.

MEDICAL EQUIPMENTS:

1. Automated External Defibrillator (AED)
2. Oxygenator
3. Nebulizer
4. Suction Apparatus
5. Electro Cardiogram Machine
6. Ambulance
7. Transcutaneous electrical nerve stimulation
8. Microscope
9. Traction Apparatus
10. Ophthalmoscope
11. Otoscope
12. Cyclotron
13. The OHC has a well-stocked Medicine Storage room
14. Thermal Scanners

SPECIALIST DOCTORS VISIT TO TNPL OCCUPATIONAL HEALTH CENTRE:

For the benefit of TNPL Employees and their families, every Sunday forenoon a Specialist Doctor visits the Premise of Occupational Health Centre. The TNPL Employees and their families avail this opportunity to have their health examined. The names and their field of specialist are furnished below:

- | | |
|--|------------------------|
| 01. Dr. P. Ramesh, M.S. | - Ophthalmic Surgeon |
| 02. Dr. D.M.T. Saravanan, MBBS, MRCP (UK). | - Cardiologist |
| 03. Dr. R. Karuppaiah, M.S. | - Orthopaedic Surgeon |
| 04. Dr. K. Ramachandran, B.D.S. | - Dental Surgeon |
| 05. Dr. D. Gurusamy Nachimuthu, M.S. | - Orthopaedic Surgeon |
| 06. Dr. S. Kiruthika, MBBS, DDVL. | - Dermatologist |
| 07. Dr. V. Shankar, M.D.D.M. | - Gastro Entero Logist |
| 08. Dr. S. Shankar, M.S. | - General Surgeon |

- | | |
|--------------------------------------|-----------------------|
| 09. Dr. G. Sathish, M.S. | - Orthopaedic Surgeon |
| 10. Dr. K.S. Murugesan, D.D. | - Dermatologist |
| 11. Dr. C. Balakrishnan, M.D. | - General Physician |
| 12. Dr. R. Hariprasad, M.D. | - Pulmonologist |
| 14. Dr. K. Madheswaran, M.Ch (Neuro) | - Neuro Surgeon |

Monthly Free Rural Medical Camps & Health Awareness:

The most important reason why the development of rural life in India is excessively slow is because of lack of education which further impacts every simple aspect of life. The medical know-how of the rural people is almost missing. **Medical awareness** is very important for the overall **development of the weaker and socially, educationally, and economically backward sections of the society.**

We in TamilNadu Newsprint and Papers Limited are aware, that for a prosperous country, the villages must be kept healthy. Each one needs to be socially aware and educated to have knowledge of various kinds of diseases and that a doctor needs to be consulted whenever he undergoes any kind of health problem rather than practice anything else. The backward class people are not so affluent that they can afford doctors for every simple disease condition.

The significance of medical camps is felt here. Medical camps are instituted not only to provide free medical service and checkup to the rural population, but they also focus on issues related to hygienic conditions of rural living, awareness of mothers and children who the most vulnerable to diseases. Awareness is imparted on how to live smartly.

Diseases are categorized and explained to the village folk telling them more about the health conditions that can be treated at home the ways in which they can be treated, diseases that need Doctor's prescription, diseases that require Doctor's care for a longer period of time, and diseases that require hospitalization immediately. The rural population tends to get panicked about any health hazards because they are not aware of the pros and cons of those.

They get emotionally disturbed about it easily. India is known for its poverty and depression because of health problems which is essentially due to lack of medical awareness.

Keeping this in mind, for the past Twenty Four Years, Doctors from the T.N.P.L. Occupational Health Centre visit the nearby villages every month and conduct Free, comprehensive, Health Awareness & Treatment camps. The villages that are benefited are Onavakkalmedu, Nalliyampalayam, Sottaiyur, Kandhasamipalayam, Nanaparappu, Moolimangalam, Pazhamapuram, Masagoundanpudur, Kurrukupalayam. So far 296 Free Rural Medical camps have been conducted by TNPL.

In Rural Camps, the deficiencies like Acid Peptic Disease, Impetigo, Low Back Ache, Myalgia, Upper Respiratory Infection, Worm Infection, AGE, Head Ache, Pyrexia unknown Origin, Migraine, Blood Pressure and General cases are treated and medicines at free of cost are also provided.

The approach towards health is now changing from cure to prevention. The engineering approach is to ensure safer processes, an integrated systems approach and better occupational environment, whereas the medical approach emphasizes identifying the health risks and their prevention of occupational diseases.

TNPL OHC is well equipped and updated with the latest medical technology in order to give efficient and comprehensive health care to the Working Community.

MASTER HEALTH CHECK-UP

Every year, all the permanent employees who have completed 40 years, 45 years, 50 years, 52 years, 54 years, 56 years, 58 years and 59 years of age are sponsored for a comprehensive Master Health check-up by the management. For this year 2023-24, we have arranged Master Health check-up at Royal Care Super Specialty Hospital, Coimbatore at the rate of Rs.3,500/- for male employee and Rs.5,000/- for female employee through tender processing. The employee attended details from **01.04.2024 to 30.09.2024** for Master Health check-up is detailed below:

Category of Age	No of employees attended	
	Male	Female
40 yrs	1	-
45 yrs	-	-
50 yrs	1	-
52 yrs	29	-
54 yrs	6	1
56 yrs	4	-
59 yrs	-	-
Total	41	1

EYE TEST:

Employees who are operating heavy vehicles viz., equipment operators and drivers have undergone eye test.

Distant Vision, near vision, color vision and fundal examination were performed. An amount of Rs.58,500/- was incurred towards Eye Test in the year, 2023 on 09.03.2023.

EYE TEST REPORT:

	Total No of Personnel tested	Normal	Abnormal
Regular employees and Contract Workmen	234	234	-

AUDIOMETRY TEST:

Audiometry test was done to employees, those who were exposed to high noise levels. An amount of Rs.35,800/- was incurred for Audiometry Test in the year, 2024 on 26.07.2024 .

The summary of expenditure incurred for the health care of the employees is given below:

PURE TONE AUDIOGRAM REPORT

No. of Employees Tested	Normal Audiogram	Abnormal Audiogram
143	143	NIL

All employees who are exposed to noise in the work environment are provided with good quality **ear muffs** to protect their hearing capacity.

PRE-EMPLOYMENT MEDICAL EXAMINATION:

The candidates, who are selected for jobs in TNPL, undergo Pre-Employment Medical Tests as advised by the Occupational Health Centre, TNPL.

They are advised to undergo the following Medical Tests in reputed laboratories.

1. Blood Tests – Urea, Creatinine, Blood Sugar, Cholesterol.
2. Urine Tests – Urine Routine, Specific Gravity, Urine Albumin, Urine Sugar.
3. Chest X-ray.
4. Electro Cardio Gram (ECG).
5. Pulmonary Function Test (PFT).
6. Pure Tone Audiogram.
7. Ophthalmic Evaluation.
8. E.N.T Surgeon's Opinion.
9. Ophthalmic Surgeon's Opinion.
10. General Physician's Opinion.

INDUSTRIAL ACCIDENT:

When employees sustain injuries while on duty, Company bears the entire medical expenses. For the period April, 2024 to September, 2024 an amount of Rs.23.79 lakhs was incurred towards entire medical expenses by the company.

MEDICAL ASSISTANCE UNDER SERIOUS AILMENTS SCHEME:

Company pays the entire hospitalization charges for employees, who suffer from the following

Serious Ailments:

1. Heart Ailment
2. Cancer
3. Kidney Transplantation
4. Paralysis
5. Leprosy
6. Tuberculosis
7. Brain Surgery
8. Acute Pancreatitis
9. Liver disease

The company has a list of approved hospitals in major cities, where employees can take treatment for the above 9 Serious Ailments.

180 days of Special Leave is sanctioned to those employees, who suffer from any one of the above Serious Ailments. The employees who have exhausted the Special Leave are sanctioned additional 180 days of Special Leave on case to case basis depending upon the severity of the ailments. The expense incurred towards the above medical facility for the period, April, 2024 to September, 2024 was Rs.91.89 lakhs.

SPECIAL MEDICAL ASSISTANCE SCHEME:

If the employee's medical expenditure is more than Rs.3,000/- and that there is a minimum period of 2 days of hospitalization, approximately 50% of the medical expenses are borne by the company for the medical expenses incurred for the employees and their dependents. The expenses incurred towards the above medical facility for the period April, 2024 to September, 2024 was Rs.121.65 lakhs.



Tamilnadu Newsprint and Papers Limited.

October 19, 2024

ENVIRONMENTAL MANAGEMENT CELL

SL.NO	NAME OF THE EXECUTIVE	DESIGNATION	QUALIFICATION	RESPONSIBILITY
01	Mr. S. Nagarajan	Chief General Manager (Operations)	AMIE, BOE, DBF	Responsible for over all mill wide operations and coordinator for Environment compliance.
02	Mr. R. Rajalingam	General Manager (E&I, Safety & Wind farm)	B.Tech., MBA.,	Responsible for over all Mill wide Electrical & Instrumentation and Online Pollution Control Monitoring Stack Instruments.
03	Mr. Shamim Ahmed	Deputy General Manager (R&D)	M.Tech.,	Responsible for R&D
04	Mr. N. Navaneethakrishnan	Deputy General Manager (Environment)	M.Sc.,	Responsible for operation of WTP, ETP, Biogas Plant, Treated Effluent Water Lift Irrigation System (TEWLIS) and Environment compliance.
05	Mr. S.M.Sundaram	Chief Manager (Environment)	M.Sc.,	Evaluation of Environmental Compliance and Coordination with PCB officials and coordinator of ISO 14001.
PLANTATION ACTIVITIES				
06	Dr. K. Jayakumar	Deputy General Manager (Forestry)	Doctorate in Agronomy	Responsible for overall pulpwood raw material procurement and Plantation establishment activities.
07	Dr. P. Chezhan	Chief Manager (Plantation)	Doctorate in tree building and forest genetics	Development of new superior clones in exotic and indigenous pulp wood species for captive and farm forestry of TNPL.
08	Dr. V. Prasath	Senior Manager (Plantation)	Doctorate in soil science and agricultural chemistry	Monitoring of ground water & soil in TEWLIS in association with TNAU scientists.

Chief General Manager (Operations)



Tamil Nadu Newsprint and Papers Limited

(A Government of Tamil Nadu Enterprise)

Kagithapuram - 639 136, Pugalur Taluk, Karur Dist. Tamil Nadu, India.

Phone: (0091) 04324-277001 to 10 - (10 Lines) Cell : 94860 41341 to 41343

ENV/15/2024
September 4, 2024

The District Environmental Engineer,
Tamilnadu Pollution Control Board,
S.F.No. 654 Part, 655 Part – L.N.S Village,
L.G.B Nagar, Arivuthirukkivil Road,
Karur – 639 002

Dear Sir,

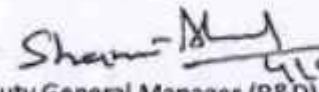
Sub: Furnishing of Environmental Statement (Form V) - TNPL Mini Cement Plant - reg.

We are enclosing the environmental statement pertaining to TNPL Mini Cement Plant for the financial year ending 31st March 2024, in Form V duly filled in with all relevant details as per Environment (Protection) Act, 1986 and Rules 1986.

This is for your kind information and records.

Thanking you,

Yours truly,
For **TAMIL NADU NEWSPRINT AND PAPERS LIMITED,**


Deputy General Manager (R&D) 9/4/24

CC: The Joint Chief Environmental Engineer
Tamilnadu Pollution Control Board (TNPCB),
No: 25, SIDCO Industrial Estate,
Thuvakudi,
Trichy – 620 015





ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR 2023-24

FORM - V (See Rule: 14)

Environmental Audit Report for the financial year ending the 31st March 2024.

PART - A

- (i) Name and address of the owner/occupier of the Industry, operation or process : TAMIL NADU NEWSPRINT AND PAPERS LIMITED (Cement Plant)
- (ii) Industry category : RED
Primary:- (STC code)
Secondary:- (SIC code)
- (iii) Production capacity - Units
Ordinary Portland Cement & Pozzolana Portland Cement : 0.33 MTPA (Million Tons per Annum)
- (iv) Year of establishment : 2013
- (v) Date of the last environmental statement submitted : 16/09/2023



ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR 2023-24

PART - B

Water and Raw material consumption

(i) Water consumption m³/day

Process	:	Nil	M ³ /day
Cooling Water*	:	190	M ³ /day
Domestic Water	:	5.4	M ³ /day

*(included water used for dust control & greenery development)

Name of products

Process Water consumption Per unit (MT) of products

During the current financial Year (2023-2024)

Ordinary Portland cement
& Pozzolana Portland cement

Not applicable
(being dry process, no water is used for process)

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR 2023-24

(ii) RAW MATERIAL CONSUMPTION

SL NO	Name of the raw material	Name of Products	Consumption of raw material per unit of output	
			During the Last Financial year (2022-23)	During the Current Financial year (2023-24)
Unit of measurement			ADMT/MT of OPC Produced	
01	Lime sludge (Dried)	ORDINARY PORTLAND CEMENT (OPC)	0.00	0.00
02	Lime grits		0.00	0.00
03	DIP sludge		0.00	0.00
04	Lime stone		0.00	0.00
05	Additives		0.00	0.00
06	Fly ash		0.00	0.00
07	Gypsum		0.00	0.00
08	Imported coal		0.00	0.00
09	Agro waste		0.00	0.00
Unit of measurement			ADMT/MT of PPC Produced	
01	Lime sludge (Dried)	PORTLAND POZZOLANA CEMENT (PPC)	0.279	0.272
02	Lime grits		0.018	0.022
03	DIP sludge		0.0035	0.046
04	Lime stone		0.703	0.596
05	Additives		0.185	0.204
06	Fly ash		0.408	0.284
07	Gypsum		0.039	0.042
08	Imported coal		0.178	0.166
09	Agro waste		0.040	0.054



ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR 2023-24

PRODUCTS MANUFACTURED

Ordinary Portland Cement	:	1056	MT
Portland Pozzolana Cement	:	199099	MT
Equivalent production per day	:	548	MT

RAW MATERIAL CONSUMPTION

Lime sludge(Dried)	:	54127.00	MT
Lime grits	:	4421.74	MT
DIP Sludge	:	9259.37	MT
Lime stone	:	119265.8	MT
Additives	:	40832.31	MT
Fly ash	:	56920.36	MT
Gypsum	:	8313.93	MT

FUEL CONSUMPTION

Imported coal	:	27852.92	MT
Agro waste	:	10859.48	MT

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR 2023-24

PART – C

**POLLUTION DISCHARGED TO ENVIRONMENT / UNIT OF OUTPUT
(Parameter as specified in the consent issued)**

(a) WATER

Being a dry process, no effluent is discharged from the unit.

(b) AIR

Name of pollutant : PM (mg/NM³)
Prescribed norms : 30 mg/NM³

Serial No.	Stack attached to	Quantity of pollutants emitted (Kgs per day)	Quantity of pollutants emitted in (Kg per ton of Cement)	Concentration of pollutants emitted in mg/NM ³	Percentage variation from prescribed in discharges standards with reasons
1	Coal Mill	8.26	0.015	21.5	NIL
2	Clinker cooler outlet	24.07	0.044	20	NIL
3	Kiln-Raw Mill	40.76	0.074	21	NIL
4	Cement Mill	11.12	0.020	18	NIL
5	Packing Plant	7.18	0.013	19	NIL

Name of pollutant : SO₂ (mg/NM³)
Prescribed norms : 100 mg/NM³

Serial No.	Stack attached to	Quantity of pollutants emitted (Kgs per day)	Quantity of pollutants emitted in (Kg per ton of Cement)	Concentration of pollutants emitted in mg/NM ³	Percentage variation from prescribed in discharges standards with reasons
1	Coal Mill	5.09	0.009	13.3	NIL
2	Clinker cooler outlet	11.01	0.020	9.2	NIL
3	Kiln-Raw Mill	37.08	0.068	19.1	NIL

Name of pollutant : NO_x (mg/NM³)
Prescribed norms : 600 mg/NM³

Serial No.	Stack attached to	Quantity of pollutants emitted (Kgs per day)	Quantity of pollutants emitted in (Kg per ton of Cement)	Concentration of pollutants emitted in mg/NM ³	Percentage variation from prescribed in discharges standards with reasons
1	Coal Mill	49.2	0.09	128	NIL
2	Clinker cooler outlet	90.26	0.165	75	NIL
3	Kiln-Raw Mill	372.7	0.68	192	NIL

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR 2023-24

PART – D

HAZARDOUS WASTES

(in accordance with Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2016)

	Unit of measurement	TOTAL QUANTITY in MT	
		During the previous financial year 2022-2023	During the current financial year 2023-2024
From Maintenance section			
Used oil/spent oil generated from Industrial operations as lubricant in hydraulic systems or other operations	MT	1.41	1.33

*Spent oil stock for disposal - Nil

PART – E

SOLID WASTE

	TOTAL QUANTITY	
	During the previous financial year 2022-2023 (MT)	During the current financial year 2023-2024 (MT)
<u>(a) From Process</u>		
<u>Sewage Treatment Plant</u>		
Solid waste from Sewage Treatment Plant(STP)*	0.6	0.5

*STP was commissioned during April '2015.

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR 2023-24

PART – F

The characteristics of solid as well as Hazardous wastes and disposal practice adopted are given below.

HAZARDOUS WASTES

SL No	Description	Major Constituents	Mode of disposal
01	Waste Oil	Chromium: 0.15ppm Total Halogens: 3805 ppm Lead: 3.85 ppm Nickel: 0.18 ppm	Disposed to PCB Authorized recyclers.

SOLID WASTE

SL No	Description	Major constituents: (all values are on OD basis)	Mode of disposal
01	Solid waste from Sewage Treatment Plant(STP)* (Moisture:5-10%)	Volatile matter:50-55% Ash :40-45% GCV:2500 Kcal/kg	Used as manure for greenery development



ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR 2023-24

PART – G

Impact of Pollution Control Measures on conservation of natural resources and its consequence on the cost of production.

The plant was designed to handle solid wastes such as Lime sludge and Fly ash generated from TNPL's Main unit (Paper plant) into a value added product as Cement under Lime Sludge Fly Ash Management System. This will reduce Lime stone consumption, which is sourced from lime stone mines. Thus the project ultimately reduces Lime stone consumption and as well as judiciously managing solid wastes from TNPL main unit. By utilizing **54127 MT** (Dried @86 % purity) of lime sludge generated from the TNPL main plant, about **61249 MT** (@76 % Purity) of lime stone usage for cement production sourced from natural mines has been avoided.

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR 2023-24**PART - H****Additional measures / Investment proposals for Environmental Protection including Abatement of Pollution, Prevention of Pollution:**

1. The unit has already installed portable sprinklers in the materials handling area and coal storage area.
2. Mobile water tanker fitted diesel pump driven system is being engaged to suppress dust on roads due to vehicular movements.
3. Installation of high pressure water sprinklers with a span of 45 Meters along the compound wall at a height of 30 feet from the ground level to arrest fugitive emission emanating from the mill premises.
4. Water spraying on roads in and around the Cement mill premises is being carried out through mobile tankers to minimize dust level on the roads due to vehicle movements. Further water spray in the open yards of the mill premises are also being practiced with portable water sprinklers.
5. B.T road has been laid for the lime crusher feeding ramp to avoid dust emission during vehicular movements.
6. One road sweeping machine has been procured and used for periodical removal of dust particles on the cement road in side of TNPL mini cement plant. One continuous Ambient Air Quality Monitoring Station has been procured and installed near the entrance of the TNPL's Mini Cement plant.
7. Part of CO₂ emitted from the Cement plant Lime-kiln is being used as a raw material (precipitating agent) for the production of "Precipitated Calcium Carbonate (PCC)" for the onsite PCC plant installed and operated by M/s OMYA Private Limited, Switzerland on "Build, Own & Operate (BOO)" basis. As the CO₂ requirement for the PCC plant is met out from CO₂ emitted from the cement plant kiln and the CO₂ emission from the kiln stack is reduced by 15% which is equivalent to about 9988 T/annum.

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR 2023-24**PART - I****Other particulars for improving quality of Environment:**

1. All the five stack-emission points of TNPL Cement plant source emissions viz. Kiln (Raw Mill), Clinker cooler, Coal Mill, Cement Mill and Packing unit are provided with Online Continuous Emission Monitoring Systems (OCEMS) to monitor dust emission and the same has been linked to CARE AIR CENTRE, TNPCB, Chennai from 23/01/2014. Further, the SO₂ and NO_x emission data from raw mill / kiln stack has been uplinked to CARE AIR CENTRE, TNPCB from 02/06/2015.
2. Separate sewage treatment plant has been installed and it is in operation. The treated sewage is utilized for greenery development within the premises.
3. TNPL has already planted 22078 trees in 8.74 Hectares against 6.04 Hectares and covered 47.68 % of Cement plant premises against the total area of 18.33 hectares.
4. Online continuous devices were installed to monitor the inlet and outlet Sewage quantity and being recorded continuously through DCS.
5. The existing Godown area has been enhanced from 952 M² with an additional 548 M² area of total 1500 M² to accommodate Raw meal stock apart from that gypsum & fly ash and other additives stored in 900 M² godown so as to avoid open yard storing to control the dust level in the open air.
6. One lime sludge storage godown has been constructed with size of (35.5 Mts*21.5Mts) = 763.25 Sq.Mts. Wet lime sludge is stored in this godown to control the air pollution in and around TNPL mini cement plant.
7. Photographs on Pollution Control Measures implemented in Cement Plant along with the greenery development photographs are enclosed in **Annexure – 1**.

A report on the "World Environmental Day" celebrations carried out by TNPL Mini Cement Plant during 2024 is enclosed as **Annexure – 2**.

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR 2023-24

ANNEXURE 1

TNPL - LSFM GREENARY DEVELOPMENT



ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR 2023-24

ANNEXURE 2

REPORT ON WORLD ENVIRONMENT DAY- 2024 CELEBRATIONS CONDUCTED AT TNPL

- ❖ On behalf of Tamilnadu Newsprint and papers limited, on Wednesday 5th of June, Environment Day was celebrated at Paper Manufacturing industry and Cement Manufacturing industry, Kagithapuram, Pugalur. Banners were also displayed near the plant entrances and time office to create awareness on various environmental issues including the environmental theme of the year 2024, "Land Restoration, desertification and drought resilience" the Slogan for the event will be "Our land, Our Future".
- ❖ This year's environment theme is "Land Restoration, desertification and drought resilience" and to emphasize environment friendly lifestyle as proposed by Tamilnadu Pollution Control Board, the officers, Staffs, workmen, contract workmen and Apprentice in the Paper plant premises and cement plant premises have taken environmental pledge.





K.Dis.No.14468/C1/2023
Dated. 17.11.2023.

O/o.the Director of Fire & Rescue Service,
No.17, Rukmani Lakshmipathi Salai,
Egmore, Chennai - 600 008.

Licence No.520 /2023 (Renewal)

- Ref: (1) Letter from the **M/s. Tamil Nadu Newsprint and Papers Limited, Karur**, Dated:14.08.2023.
(2) Letter R.C.No.4286/C1/2023, dated.20.10.2023 from the Chairman, MSB Inspection Committee, **Central Region, Trichy.**

With reference to the letter first cited above the Fire Licence is **renewed** as under, based on the recommendations conveyed in the reference 2nd cited above.

FIRE & RESCUE SERVICES LICENCE

The Fire Licence is hereby **renewed** under section 13 of the Tamil Nadu Fire and Rescue Service Act 1985 for the multi-storied building classified as **Group G Industrial Building, Sub-Division G-1 Low Hazard of M/s. Tamil Nadu Newsprint and Papers Limited, Cement Plant (LSFM)**, the details of the buildings are follows,

Sl. No.	Building / structures name	Type of buildings / structure	Area of buildings / structures (in sq. mtrs)	Height of buildings structures (in meters)	Maximum height of human occupancy (in meters)
1.	Security office	RCC	15.0	3.5	-
2.	Front office	RCC	97.0	4.38	-
3.	Ambulance room	RCC	54.0	4.38	-
4.	Dining hall & time Office	RCC	144.0	9.0	-
5.	Marketing building	RCC	334.0	4.39	-

6.	Stores	Steel structures	375.0	8.4	-
7.	Work shop	Steel structures	375.0	8.0	-
8.	Packing plant	RCC	1014.0	28	5
9.	Cement mill MCC room	RCC	166.0	4.7	3
10.	Cement mill house	RCC	954.0	26	-
11.	Gypsum / additive hopper	RCC	282.0	19.3	4
12.	Coal mill building	RCC	924.0	28	-
13.	Rotary kiln & cooler building	RCC & steel structures	466.0	12.0	9
14.	Alkali bypass building	RCC & steel structures	310.0	41	09
15.	Reverse air bag house	RCC & steel structures	2114.0	30.64	-
16.	Compressor house	Steel structures	190.0	5.39	-
17.	WTP - DM plant	Steel structures	194.0	5.39	-
18.	MCC - 2 raw mill	RCC	46.0	4.38	-
19.	Lime stone / additive hopper	RCC	117.0	16	5
20.	PPC plant MCC room	RCC	121.0	4.7	-
21.	MCC room near raw mill	RCC	340.0	6.5	4
22.	Raw mill	RCC	804.0	26.5	5
23.	Rapid dryer	RCC	615.0	18	9
24.	Fine coal bin building	RCC & steel structures	364.0	30.9	-

25.	Vacuum filter house	RCC	332.0	19.4	9
26.	Lime stone stock shed	Steel structures	1345.0	12	-
27.	Tertiary crusher building	RCC & steel structures	883.0	33.6	-
28.	Lime stone crusher shed	Steel structures	198.0	15.7	-
29.	Crusher MCC room	RCC	180.0	5.65	3
30.	Gypsum, additive and coal storage shed	Steel structures	1452.0	6.2	-
31.	CCR & MCC room	RCC	1266.0	11.45	4
32.	Preheater building	RCC	1176.0	57.2	12
33.	Lime sludge storage shed	Steel structures	735.0	12	-

at Kagithapuram, Punjai Pugalur Village, Karur District subject to the following conditions and such other conditions as may be prescribed from time to time. This licence is valid for **ONE YEAR** from **17.11.2023** to **16.11.2024** and should be renewed on **17.11.2024**.

CONDITIONS

1. Human occupancy is not permitted on and above 18 meters.
2. Periodical maintenance should always be ensured to keep all fire protection equipment and systems in good working condition.
3. "Mock drill" should be periodically conducted. The date of conduct should be informed to the District Officer, Karur District well in advance to enable the team to make suggestions, if any.
4. Trained fire personnel should be available to operate the systems in case of any emergency.
5. All fire fighting equipment should always be kept in good working condition at all times.

6. Any erection of a permanent or temporary structure should be intimated to this Fire and Rescue Services Department.
7. With reference to air-conditioning it should not exceed the electricity board load on any account.
8. Available set back area on 7 meters at all sides should be maintained to withstand the weight of 45 tons of fire fighting vehicle.
9. House keeping / dumping of waste material any where should be avoided. Dust bins should be cleared everyday.
10. Emergency fire exit, door should open from the floor to staircase only and not the other way round. The door should be in red reflector & arrow marks should commensurate with the gradient of staircase.
11. Do's & don'ts in times of emergencies should be available in a laminated hanging pad or otherwise in the telephone operator's desk as well as in the CE or emergency in charge of the officer's desk.
12. Alternate staircase should be kept free without any obstruction.
13. All staircases should be kept open during office hours and should be kept usable at any point of emergency.
14. Fire order / contingency plan should be prepared and displayed in each floor. It should also contain the rescue team members name, designation and contact number.
15. As per section 3.2 of BIS 12459, 1988 - code of practice for fire safety in cable regularization, 1m transparent fire retardant coatings shall be applied to all cables at termination points in electrical panels and all cables inside the distribution boxes.

Amritha
for Director,
Fire and Rescue Services,
Tamil Nadu.

To:

M/s. Tamilnadu Newsprint and Papers Limited,
Kagithapuram,
Karur District - 639 136.



Copy to:

The Deputy Director, Fire and Rescue Services,
Central Region, Trichy.