

Regd Office & Works: Pallipalayam, Namakkal District, Erode - 638 007, Tamilnadu, India, Ph: 91 - 4288 - 240221 to 240228 Fax: 91 - 4288 - 240229 email: edoff@spbltd.com Web: www.spbltd.com CIN:L21012TZ1960PLC000364

Ref: Env/ W-1/

2023 10 19

The Director(s)
Regional Office (South Eastern Zone)
Ministry of Environment, Forests & Climate Change (MOEFCC)
Government of India
The Handloom Export Promotion Council Building
34 (Old No.18) Cathedral Garden Road
Nungambakkam
Chennai 600 034

Dear Sir,

Sub: Compliance Report for the period April 2023 - Sep 2023

Ref: Environmental Clearance F.No J-11011/56/95-IA-II (I) dated 21.05.1996 Environmental Clearance F.No J-11011/194/2013-IA II (I) dated 22.01.2016 and Amendment dated 18.11.2019.

We submit the compliance report for the various conditions stipulated in the above Environmental Clearances dated 21 05 1996, 22 01 2016 and 18 11 2019 (amended) respectively, issued by your esteemed Ministry, for the period April 2023–Sep 2023, together with relevant enclosures.

Thanking you,

Yours faithfully
For Seshasayee Paper and Boards Limited

GANESH BALAKRISHNA BHADTI Director (Operations)

Encl: as above



SESHASAYEE PAPER AND BOARDS LIMITED

PALLIPALAYAM, CAUVERY R.S. P.O ERODE 638 007, NAMAKKAL DISTRICT Unit: Erode



Compliance Report for the Period April 2023 - September 2023

SESHASAYEE PAPER AND BOARDS LIMITED

Environment Clearance F.No. J-11011/56/95 -IA- II (I) dated 21.05.1996

COMPLIANCE REPORT FOR THE CONSENT DATED 21.05.1996

COMPLIANCE REPORT FOR THE PERIOD APRIL 2023 - SEPTEMBER 2023

Sl.No	EC Condition	Compliance Status
1	The Project Authority must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government	made by the State Pollution Control Board and the State Government. Status: Complied
2	No expansion or modification of the plant should be carried out without prior approval of this Ministry	SPB mill abide with this condition.
3	Gaseous and Particulate Emissions from various processes should conform to the standards prescribed by the competent authority from time to time. At no time, the emission levels should go beyond the prescribed standards. In the event of failure of any Pollution Control System adopted by the units, the respective unit should be put out of operation immediately and should not be restarted until the pollution control measures are rectified to achieve the desired efficiency.	continuously monitored online round- the-clock basis and under control.
4	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of SPM, SO2 and NOx are anticipated. The selection of the AAQ monitoring stations should be based on modelling exercise to represent short term ground level concentration, sensitive targets etc in consultation with the State Pollution Control Board Stack Emissions should also be regularly monitored by installing stack monitoring device in	 Industry has installed online stack monitoring system in all the stacks and stack emissions are well within the standards prescribed. The Advances Environmental Laboratory, TNPCB, Salem is conducting AAQ/Stack Survey twice in a year and their analysis reports confirm compliance of stipulated standards in

onsultation with the State bllution Control Board at a on AAQ and Stack Emissions hould be submitted regularly to be Ministry once in six months and the State Pollution Control poard once in three months along with the statistical analysis and atterpretation	(Annexure -1) Statistical analysis as below Parameters Kg/d mg/Nm³ SPM 32.12 25 (Lime Kiln) SPM 33.30 19 (Chemical Recovery Boiler) SPM 58.75 15 (Captive Power Plant-CPP) H ₂ S 0.05 0.038 (Lime Kiln)
	H ₂ S 0.22 0.124 (CRB) Extract from the Analysis Report of Advanced Environmental Laboratory, Tamil Nadu Pollution Control Board, Salem. Status: Complied
nterlocking facilities should be rovided in the ESP's installed in the process equipments and captive Power Plant so that the plant automatically shuts down in ease of ESP failure/emissions exceeding the limits if any	uninterrupted power supply to pollution control equipment is maintained through captive power generation backed by the TNEB supply.
ugitive emissions should be controlled, regularly monitored and data recorded	 Sprinkler systems are in place to mitigate the Fugitive emissions. We have installed water sprinklers and tanker mounted trailer with sprinkling arrangements to control the same. Photos are enclosed (Annexure -3) Additional green belt is developed in the boundaries to contain fugitive emissions. Status: Complied
Liquid wastes should be reduced in both volume and concentrations by a combination of in plant control measures and better work practices. Liquid Effluents coming out of the plant and township should conform to the Standards as prescribed by the State Pollution Control Board/ Central Pollution Control Board under the Environment (Protection) Act, 1986.	Volume of liquid effluent is reduced by adapting recycling in various plants of the mill and the specific water consumption is reduced. The treated effluent is regularly monitored by the Tamil Nadu Pollution Control Board / Central Pollution Control Board which is monitored online and conforming to standards. Status: Complied
	ollution Control Board ata on AAQ and Stack Emissions arould be submitted regularly to be Ministry once in six months and the State Pollution Control pard once in three months along ith the statistical analysis and terpretation Interlocking facilities should be rovided in the ESP's installed in the process equipments and aptive Power Plant so that the lant automatically shuts down in the lant automatically shuts d

SI.No	EC Condition	Compliance Status
8		 Various in plant water recycling and conservation measures have been implemented and specific water consumption has been reduced. Wastewater from paper machines – about 10500m3/day is recycled, treated in Clari-flocculator and reused with in the mill. The final treated effluent is used for irrigation after maximized recycling. Pre-treated wastewater recycled back to process report enclosed as annexure - 4 Status: Complied
9	Adequate number of influent and effluent quality (pH, BOD, COD, TSS) monitoring stations should be set up in consultation with Tamil Nadu Pollution Control Board. Monitored data along with the statistical analysis and interpretation in the form of a report should be submitted to this Ministry on a half yearly basis and to SPCB once in three months.	
10	measures to monitor the Cauvery river water quality in the upstream	 downstream is monitored regularly. Copy of our River Water Analysis Report enclosed as annexure – 5.
11	Chemical Recovery Plant should be set up for recovering the chemical from the Black Liquor to the maximum extent possible	250 TPH water evaporation plant and 950 tonnes / day Chemical Recovery Boiler with which we are able to recover chemicals and sent back to pulp process. Status: Complied

SI.No 12	EC Condition The effluent from the bleaching		
	section should be segregated from other waste water streams and treated for decolourisation. The feasibility of using only Hydrogen Peroxide instead of Calcium	Bagasse Pulping thereby eliminating the use of Calicum hypochlorite and by replacing the same with Hydrogen Peroxide. • Our present treated wastewater	
	Hypochlorite as a bleaching agent for the bleaching of Bagasse pulp should be considered and a report	discharged is around 40 m³/ton of paper.	
	submitted to the Ministry for review. A limit of 150 cubic meters of effluent per MT of paper should be adhered to	Status: Complied	
13	Organic Matter from Black Liquor and pith removed from the Bagasse should be used as a fuel in the Soda Recovery and Power Boiler	is evaporated and used in the Chemical	
14	The hazardous wastes should be handled as per the Hazardous Waste (Management and Handling) Rules, 1989 and (Hazardous Substance Import, Manufacture and Storage), Rules 1989 of the Environment Protection Act 1986	SPB is possessing Hazardous Wastes Authorization No. 22HFC36355066 dated 07/07/2022 issued by TNPCB with a validity of five years from the date of issue and the Hazardous wastes are disposed as per authorization only. Status: Complied	
15	Adequate measures for the control of noise should be taken so as to keep the noise levels below 85 dBA in the work environment. Persons working near the noisy machines in the different units, blowers, compressors etc should be provided with a well designed ear muffs/plugs. Besides, measures should be taken to reduce the noise at the sources itself by employing Engineering methods	Silencers, Hoods etc have been installed in Power Plant and other noisy areas. Personal Protective Equipments such as ear muffs/plugs have been provided to all the employees. This is being monitored regularly by Advanced Environmental Laboratory, Salem is conducting overall noise levels survey twice in a year and their analysis report confirm compliance of stipulated standards in this regard. Inside the Plant 85 dBA Wood pulp mill – RDH 82.9 Paper Machine Ground floor 80.3 New Recovery Boiler Area 79.9 CPP – Power Boiler ground floor 78.9 Extracted from Analysis Report of Advanced Environmental Lab TNPCR Salem for the period	D 801
		E PAS	ND BOARDS LIMITE

		(TNPCB survey has been conducted on 11 08 2023 and 12 08 2023)
16	A community welfare scheme for improving the Socio Economic Environment should also be worked out and report submitted to this Ministry for review within a period of 6 months	 Supply of protected potable drinking water to all the villages and neighbouring community through network of pipelines 400 numbers of drinking water taps were installed in strategic places. Supply of treated wastewater after meeting inland surface water discharge
		standards for irrigation. Desilting of community check dams for collection of rain water during monsoon for the recharge of ground water. Education facility for the rural community in three schools run by the Company
		 Donated land for the Goverment school Running of Community Health Centres for the benefit of the downtrodden. Regular sports activities like Cricket, Tennis, Volleyball, Kabaddi, Shuttle etc are carried out to improve the skills of the rural folk. Lot of awareness programmes were conducted for covid-19 and spraying Lizol in around the villages nearby.
		 Contribution to supply of drinking water to nearby village 1.42 crores Contribution to disaster management, including relief fund, rehabilitation and reconstruction activity. Status - Complied
17	An action plan for utilisation of fly ash and lime sludge from Hypo plant should be prepared and a report to be submitted to this Ministry for review within a period of six months	 Fly ash is disposed for manufacturing bricks and Lime sludge is disposed to cement industries.
18	Soil samples from the land fill site, lignite handling area and area irrigated by the treated effluent should be regularly analysed for any signs of soil degradation and if required corrective action should be promptly taken	treated effluent is regularly monitored by Tamil Nadu Agricultural University, Coimbatore. Test reports are enclosed as

SI.No	EC Condition	Compliance Status
19	Ground water around the land fill site, lignite handling area and areas irrigated by treated effluent should be regularly monitored and report submitted to the SPCB once in three months and to the Ministry and its Regional Office at Bangalore every six months	irrigated with our treated wastewater is being regularly monitored by Tamil Nadu Agricultural University, Coimbatore and TNPCB. Test reports are enclosed as Annexure -7 Status: Complied
SI.No	EC Condition	Compliance Status
1	The ministry or any other competent authority may stipulate any additional conditions, if required from Environmental angle after review of monitoring reports or any other report prepared by the Project Authority	Till date, no additional conditions have arisen. In future, if so, the same will be complied
2	The ministry may revoke Environmental Clearance if implementation of any of the conditions is not found satisfactory. The stipulated conditions will be monitored by this Ministry as also by its Regional Office located at Bangalore. Six monthly status reports on the compliance of above conditions should be sent to the ministry (Regional Office, Banaglore).	
3		Till date, no additional conditions have arisen. In future, if so, the same will be

de



TAMILNADU POLLUTION CONTROL BOARD Advanced Environmental Laboratory, Salem 636 004

From
Tmt.E. Gowri, M.Sc., B.Ed.,
Chief Scientific Officer,
Advanced Environmental Laboratory,
Tamilnadu Pollution Control Board,
1/276, Meyyanur Main Road,
Salem - 636 004.

To
The Managing Director,
M/s. Seshasayee Paper & Boards Ltd.,
Alampalayam Village
Pallipalayam, Kumarapalayam Taluk,
Namakkal District - 638 007.

Lr. No.TNPCB/CSO/AEL - SLM./AAQS/F.No.NKL - KUMPLM-Air-01/2023 -- 24, Dated;23.08.2023

AAQS/SM/ANL SURVEY REPORT FOR 2023 -24

Ist - BI - ANNUAL

Sir,

Sub: Furnishing of Report of Analysis of Ambient Air Quality, Stack

Monitoring and Noise Level Survey - Regarding.

Ref: 1) T.O.Lr.No.TNPCB/CSO/AEL - SLM/AAQS/F.No.NKL/KUMPLM -Air-01/2023 - 24, Dated 23.06.2023.

2) Your Lr.No.A-1/351 Dated 14.08.2023.

3) Cash Receipt No.159116, Dated:27.06.2023 for Rs.2,43,450/-

I am to furnish the report of analysis of Ambient Air Quality, Stack Monitoring and Ambient Noise Level Survey conducted in the vicinity of your industry M/s. Seshasayee Paper & Boards Ltd., Alampalayam Village, Pallipalayam, Kumarapalayam Taluk, Namakkal District on 11.08.2023 & 12.08.2023 with invoice for Rs.2,43,450/- (Rupees Two Lakh Forty Three Thousand Four Hundred and Fifty Only) towards the above survey/analysis charges, and the same has been adjusted with the advance fees received vide ref (3) cited.

Kindly acknowledge the receipt of the report without fail.

Encl: As above.

11.10-1/2410/23

CHIEF SCIENTIFIC OFFICER, AEL, TNPCB, SALEM.

Copy submitted to:

The Deputy Director (Labs), TNPC Board, Chennai- 32 for favour of information please.

Copy to: The District Environmental Engineer, TNPC Board, Kumarapalayam, Namakkal - Dt.

Copy to : File.



ADVANCED ENVIRONMENTAL LABORATORY, TAMILNADU POLLUTION CONTROL BOARD. SALEM - 636 004.

Accredited by NABL - (ISO/IEC 17025:2017)



ULRTC98992300001390

TEST REPORT

Report No. 25 /AEL - SLM/AAQS/2023 - 24, Dated. 23.08.2023

1. Name of the Industry

M/s. Seshasayee Paper & Boards Ltd.,

2. Address of the Industry

Alampalayam Village, Pallipalayam

Kumarapalayam Taluk, Namakkal District - 638 007.

3. Date of survey

11.08.2023 & 12.08.2023.

4. Duration of survey

24 Hours

5. Category

Red/Large

6. Land use classification

Residential (Rural)

7. Matrix

Ambient Air

8. Date of Analysis

14.08.2023

Ambient Air Quality Survey Results (24 Hrs Average)

Dix Dix		*	* 92	from n)	Pollutants Concentration (μg/m³)				
	Distanc (m)	Height from GL (m)	PM ₁₀	SO ₂	NO ₂				
01.	On top of Scaffolding near Mr. Chinnusamy's house, Cauvery R.S	N	500	2.0	62	14	19		
02.	House top of Thiru. E.Ramasamy D.No.247, Kumarappan Nagar, Karathangadu	NE	1000	8.0	65	16	21		
03.	House top of Mr. Mani, D.No. 2/386, Odapalli, Cauvery R.S	Е	1000	8.0	58	13	18		
04.	House top of Ponni Nagar Employee Quarters	SE	600	8.0	66	. 18	22		
05.	On top of Guest House, SPB premises	wsw	300	6.0	73	20	24		
06.	On top of Scaffolding, Near water Intake well	W	350	5.0	75	22	26		

Note:

With respect to major emission sources

All the values are restricted to the sampling period of 08.00 Hrs.

Test method:

Respirable Particulate Matter (PM10) : IS 5182: (Part 23) - 2006

Sulphur Dioxide (as SO₂) Oxides of Nitrogen (as NOx) : IS 5182: (Part 2) - 2001

: IS 5182: (Part 6) - 2006

Sampling Procedure

: AEL/SLM/SOP/G-08

* Results relate only to the tested samples.

** The report shall not be reproduced except in full without approval of the laboratory can provide assurance that parts of a report are not taken out of context.

Authorized Signatory

 $M \cdot R = \frac{1}{2} \frac{4}{8} \frac{23}{23}$ Env. Scientist

Chief Scientific Officer. AEL, TNPCB, SALEM-4.

-End of Test Report -

Page No.1 of 1



ADVANCED ENVIRONMENTAL LABORATORY. TAMILNADU POLLUTION CONTROL BOARD, <u>SALEM - 636 004.</u>

TEST REPORT

Report No. 25 /AEL - SLM/AAOS/2023 - 24, Dated, 23.08.2023

1. Name of the Industry

: M/s. Seshasayee Paper & Boards Ltd.,

2. Address of the Industry:

Alampalayam Village, Pallipalayam

Kumarapalayam Taluk, Namakkal District - 638 007.

3. Date of survey

11.08.2023 & 12.08.2023.

4. Duration of survey

24 Hours

5. Category

: Red/Large

6. Land use classification

: Residential (Rural)

7. Matrix

: Ambient Air

8. Date of Analysis

: 14.08.2023

Ambient Air Quality Survey Results (24 Hrs Average)

SI.		*	*	r	Pollutants Concentration (μg/m³)		
No.		Distance (m)	Height from GL (m)	Cl ₂ *	H ₂ S*		
01.	On top of Scaffolding near Mr. Chinnusamy's house, Cauvery R.S	N	500	2.0	<1	<0.02	
02.	House top of Thiru. E.Ramasamy D.No.247, Kumarappan Nagar, Karathangadu	NE	1000	8.0	<1	<0.02	
03.	House top of Mr. Mani, D.No. 2/386, Odapalli, Cauvery R.S	Е	1000	8.0	<1	<0.02	
04.	House top of Ponni Nagar Employee Quarters	SE	600	8.0	<1	<0.02	
05.	On top of Guest House, SPB premises	wsw	300	6.0	<1	<0.02	
06.	On top of Scaffolding, Near water Intake well	w	350	5.0	<1	<0.02	

Note:

* With respect to major emission sources

* Total and to the samplin

All the values are restricted to the sampling period of 08.00 Hrs.

Test method:

Respirable Particulate Matter (PM₁₀) : IS 5182: (Part 23) - 2006 Sulphur Dioxide (as SO₂) : IS 5182: (Part 2) - 2001 Oxides of Nitrogen (as NO_x) : IS 5182: (Part 6) - 2006 Sampling Procedure : AEL/SLM/SOP/G-08

* Results relate only to the tested samples.

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Authorized Signatory

M. 1/24/8/23 Env.Scientist

Chief Scientific Officer, AEL, TNPCB, SALEM-4.

-End of Test Report -

Page No.2 of 9



ADVANCED ENVIRONMENTAL LABORATORY, TAMILNADU POLLUTION CONTROL BOARD, <u>SALEM – 636 004.</u>

Accredited by NABL - (ISO/IEC 17025:2017)



ULRTC98992300001390 TEST REPORT

Report No. 25 / AAOS/2023 - 24, Dated. 23.08.2023

1. Name of the Industry

M/s. Seshasayee Paper & Boards Ltd.,

2. Address of the Industry

Alampalayam Village, Pallipalayam

Kumarapalayam Taluk, Namakkal District - 638 007.

3. Date of survey

11.08.2023 & 12.08.2023.

4. Duration of survey

24 Hrs.

5. Category

Red / Large

6. Land use classification

Residential (Rural)

7. Matrix

Ambient Air

8. Date of Analysis

14.08.2023.

Ambient Air Quality survey Results - PM₁₀

Sl. No	Location	tion	ice *	ほど	Pollutants Concentration (μg/m³)				
,	Location	Direction	Distance (m)	Height from GL	I st shift	2nd shift	3 rd shift	24krs average	
01.	On top of Scaffolding near Mr. Chinnusamy's house, Cauvery R.S	N	500	2.0	73	63	50	62	
02.	House top of Thiru. E.Ramasamy D.No.247, Kumarappan Nagar, Karathangadu	NE	1000	8.0	70	66	59	65	
03.	House top of Mr. Mani, D.No. 2/386, Odapalli, Cauvery R.S	Е	1000	8.0	68	56	- 50	58	
04.	House top of Ponni Nagar Employee Quarters	SE	600	8.0	78	64	. 56	- 66	
05.	On top of Guest House, SPB premises	wsw	300	6.0	79	72	68	73	
06.	On top of Scaffolding, Near water Intake well	w	350	5.0	77	79	69.	-75	

* With respect to major emission sources

All the values are restricted to the sampling period of 08.00 Hrs.

Test method:

Respirable Particulate Matter (PM₁₀): IS 5182: (Part 23) - 2006

Sulphur Dioxide (as SO₂) Oxides of Nitrogen (as NO_x)

: IS 5182: (Part 2) - 2001

Sampling Procedure

: IS 5182: (Part 6) - 2006

: AEL/SLM/SOP/G-08

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> M'P 7/24/8/23 Env.Scientist

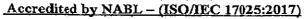
Authorized Signatory

Chief Scientific Officer, AEL, TNPCB, SALEM-4.



ADVANCED ENVIRONMENTAL LABORATORY, TAMILNADU POLLUTION CONTROL BOARD,

SALEM - 686 004.





ULRTC98992300001390

TEST REPORT

Report No. 25 / AAQS/2023 - 24, Dated. 23.08.2023

Name of the Industry

M/s. Seshasayee Paper & Boards Ltd.,

Address of the Industry

Alampalayam Village, Pallipalayam Kumarapalayam Taluk, Namakkal District - 638 007.

Date of survey

11.08.2023 & 12.08.2023

4. Duration of survey 24 Hrs.

5. Category

Red / Large

Land use classification 7. Matrix

Residential (Rural)

Ambient Air

8. Date of Analysis

14.08.2023

Ambient Air Quality survey Results - SO2

Sl.		tion) ()	ਬ਼ੁੱ ਤੋਂ	Pollutants Concentration (µg/m³)				
No	Location	Direction	Distance (m)	Height from GL	1 st shift	2nd shift	3 rd shift	24hrs average	
01	On top of Scaffolding near Mr. Chinnusamy's house, Cauvery R.S	N	500	2.0	17	14	11	14	
02.	House top of Thiru. E.Ramasamy D.No.247, Kumarappan Nagar, Karathangadu	NE	1000	8.0	20	16	12	16	
03.	House top of Mr. Mani, D.No. 2/386, Odapalli, Cauvery R.S	E	1000	8.0	16	13	10	13	
04.	House top of Ponni Nagar Employee Quarters	SE	600	8.0	25	17	12	18	
05.	On top of Guest House, SPB premises	wsw	300	6.0	24	19	17	20	
06.	On top of Scaffolding, Near water Intake well	W	350	5.0	28	22	16	-22	

Note:

With respect to major emission sources

All the values are restricted to the sampling period of 08.00 Hrs.

Test method:

Respirable Particulate Matter (PM₁₀) : IS 5182: (Part 23) - 2006

Sulphur Dioxide (as SO₂)

: IS 5182: (Part 2) - 2001

Oxides of Nitrogen (as NO_x)

: IS 5182: (Part 6) - 2006

Sampling Procedure

: AEL/SLM/SOP/G-08

Results relate only to the tested samples.

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Authorized Signatory

M. Port/24/8/23 **Env.Scientist**

Chief Scientific Officer, AEL, TNPCB, SALEM-4.



ADVANCED ENVIRONMENTAL LABORATORY. TAMILNADU POLLUTION CONTROL BOARD.

SALEM - 636 004. Accredited by NABL - (ISO/IEC 17025:2017)



ULRTC98992300001390

TEST REPORT

Report No. 25 / AAQS/2023 - 24, Dated. 23.08.2023

1. Name of the Industry

M/s. Seshasayee Paper & Boards Ltd.,

Address of the Industry

Alampalayam Village, Pallipalayam

Kumarapalayam Taluk, Namakkal District - 638 007.

3. Date of survey

11.08.2023 & 12.08.2023

Duration of survey 4.

24 Hrs.

5. Category

Red / Large

6. Land use classification

Residential (Rural)

7. Matrix

Ambient Air

8. Date of Analysis

14.08.2023

Ambient Air Quality survey Results - NO2

Sl. No	T and the	tion	* es (er in	Pollutants Concentration (µg/m³)			
•	Location	Direction	Distance (m)	Height from GL	1 st shift	2nd shift	2g/m ³) 3rd 3rd shift 16 14 14 15	24brz average
01.	On top of Scaffolding near Mr. Chinnusamy's house, Cauvery R.S	N	500	2.0	23	18	16	19
02.	House top of Thiru. E.Ramasamy D.No.247, Kumarappan Nagar, Karathangadu	NE	1000	8.0	29	20	14	21
03.	House top of Mr. Mani, D.No. 2/386, Odapalli, Cauvery R.S	E	1000	8.0	23	17	14	18
04.	House top of Ponni Nagar Employee Quarters	SE	600	8.0	30	21	15	22
05.	On top of Guest House , SPB premises	wsw	300	6.0	30	22	20	24
06.	On top of Scaffolding, Near water Intake well	W	350	5.0	32	25	21	26

With respect to major emission sources

All the values are restricted to the sampling period of 08.00 Hrs.

Test method:

Respirable Particulate Matter (PM₁₀): IS 5182: (Part 23) - 2006 Sulphur Dioxide (as SO₂)

: IS 5182: (Part 2) - 2001

Oxides of Nitrogen (as NO_x)

: IS 5182: (Part 6) - 2006

Sampling Procedure

: AEL/SLM/SOP/G-08

Results relate only to the tested samples.

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Authorized Signatory

M. P = /24/8/22 Env.Scientist

Chief Scientific Officer, AEL, TNPCB, SALEM-4.



ADVANCED ENVIRONMENTAL LABORATORY. TAMILNADU POLLUTION CONTROL BOARD, SALEM - 636 004.

Accredited by NABL - (ISO/IEC 17025:2017)

TEST REPORT

Report No. 25/AAQS/2023 - 24, Dated. 23,08.2023

1. Name of the Industry

M/s. Seshasayee Paper & Boards Ltd.,

2. Address of the Industry

Alampalayam Village, Pallipalayam

Kumarapalayam Taluk, Namakkal District - 638 007.

3. Date of survey

11.08.2023 & 12.08.2023

4. Duration of survey 5. Category

24 Hrs. Red / Large

6. Land use classification

Residential (Rural)

Matrix:

Ambient Air

8. Date of Analysis

: 14.08.2023

Ambient Air Quality survey Results - Cl2

Sl. No	Location	tion	*	설명	Pollutants Concentration (μg/m³)				
•	Location	Direction *	Distance (m)	Height from GL	1" shift	2nd shift		24hrs average	
01.	On top of Scaffolding near Mr. Chinnusamy's house, Cauvery R.S	N	500	2.0	<1	<1	<1	<1	
02.	House top of Thiru. E.Ramasamy D.No.247, Kumarappan Nagar, Karathangadu	NE	1000	8.0	<1	<1	<1	<1	
03.	House top of Mr. Mani, D.No. 2/386, Odapalli, Cauvery R.S	E .	1000	8.0	<1	<1	<1	<1	
04.	House top of Ponni Nagar Employee Quarters	SE	600	8.0	<1	<1	<1	<1	
05.	On top of Guest House, SPB premises	wsw	300	6.0	<1	<1	<1	<1	
06.	On top of Scaffolding, Near water Intake well	W	350	5.0	<1	<1	<1	≪ 1	

With respect to major emission sources

All the values are restricted to the sampling period of 08.00 Hrs.

Test method:

Respirable Particulate Matter (PM10) : IS 5182: (Part 23) - 2006 Sulphur Dioxide (as SO₂)

Oxides of Nitrogen (as NO_x)

: IS 5182: (Part 2) - 2001 : IS 5182: (Part 6) - 2006

Sampling Procedure

: AEL/SLM/SOP/G-08

* Results relate only to the tested samples.

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Authorized Signatory

M. 10 + /24/8/23

Env.Scientist

Chief Scientific Officer, AEL, TNPCB, SALEM-4.

-End of Test Report -

Page No.3 of 10



ADVANCED ENVIRONMENTAL LABORATORY. TAMILNADU POLLUTION CONTROL BOARD,

SALEM - 636 004.

Accredited by NABL - (ISO/IEC 17025:2017)

TEST REPORT

Report No. 25 / AAOS/2023 - 24, Dated. 23.08.2023

1. Name of the Industry

M/s. Seshasayee Paper & Boards Ltd., Alampalayam Village, Pallipalayam

2. Address of the Industry

T. Code, Namakkal District - 638 007.

3. Date of survey

: 11.08.2023 & 12.08.2023

4. Duration of survey

24 Hrs.

5. Category

: Red / Large

6. Land use classification

: Residential (Rural)

7. Matrix

: Ambient Air

8. Date of Analysis

: 14.08.2023

Ambient Air Quality survey Results - H2S

Sl.		* #	* 8	from n)	Pollutants Concentration (μg/m³)			
No ·	Distance (m)		Distanc (m)	Height from GL (m)	1 st shift	2nd shift	3 rd shift	24hгs нүсгиде
01.	On top of Scaffolding near Mr. Chinnusamy's house, Cauvery R.S	N	500	2.0	<0.02	<0.02	<0.02	<0.02
02.	House top of Thiru. E.Ramasamy D.No.247, Kumarappan Nagar, Karathangadu	NE	1000	8.0	<0.02	<0.02	<0.02	<0.02
03.	House top of Mr. Mani, D.No. 2/386, Odapalli, Cauvery R.S	Е	1000	8.0	<0.02	<0.02	<0.02	<0.02
04.	House top of Ponni Nagar Employee Quarters	SE	600	8.0	<0.02	<0.02	<0.02	<0.02
05.	On top of Guest House, SPB premises	WS W	300	6.0	<0.02	<0.02	<0.02	<0.02
06.	On top of Scaffolding, Near water Intake well	W	350	5.0.	<0.02	<0.02	<0.02	<0.02

With respect to major emission sources

All the values are restricted to the sampling period of 08.00 Hrs.

Respirable Particulate Matter (PM10) : IS 5182: (Part 23) - 2006 Sulphur Dioxide (as SO₂) : IS 5182: (Part 2) - 2001

Oxides of Nitrogen (as NO_x) Sampling Procedure

: IS 5182: (Part 6) - 2006 : AEL/SLM/SOP/G-08

* Results relate only to the tested samples.

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M. 10 7/24/8/23

Env.Scientist

Chief Scientific Officer, AEL, TNPCB, SALEM-4.



ADVANCED ENVIRONMENTAL LABORATORY, TAMILNADU POLLUTION CONTROL BOARD, SALEM - 636 004.

Accredited by NABL - (ISO/IEC 17025:2017)

AMBIENT AIR QUALITY SURVEY

Schematic Diagram Showing Location of Sampling

Report No. 25/AEL - SLM/AAQS/2023 - 24, Dated: 23.08.2023

2. Date of survey 11.08.2023 & 12.08.2023 12.08.2023 12.08.2023	1.Name and Address of the Industry	•	Alampalayam Vill	aper & Boards Ltd., age, Pallipalayam Ialuk, Namakkal District.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2. Date of survey		11.08.2023 & 12.0	08.2023
Cl_2 : <1	Stn. 6 W / 350 m PM ₁₀ : 75 SO ₂ : 22 NO ₂ : 26 Cl ₂ : <1 H ₂ S: <0.02 Stn. 5 WSW / 300 m PM ₁₀ : 73 SO ₂ : 20	N / PM ₁ SO ₂ NO Cl ₂ H ₂ ;	Stn. 1 500 m 0: 62 : 14 2: 19 : <1 S: <0.02 eshasayee & Boards	Stn. 2 NE / 1000 m PM ₁₀ : 65 SO ₂ : 16 NO ₂ : 21 Cl ₂ : <1 H ₂ S: <0.02 Stn. 3 E / 1000 m PM ₁₀ : 58 SO ₂ : 13 NO ₂ : 18 Cl ₂ : <1 H ₂ S: <0.0 Stn. 4 SE / 600 m PM ₁₀ : 66 SO ₂ : 18
	-			

Note:

All the values are expressed in $\mu g \ /m^3$ and restricted to the sampling period of 08.00 Hrs.

METEOROLOGICAL CONDITION:

Predominant Wind Direction

: W→E & SW →NE

Weather Condition

: Clear Sky, Cloudy & Rainy

Rainfall

: 23:00 - 01.00 Hrs (2 Hours)

M. P. 7/24/8/23

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ADVANCED ENVIRONMENTAL LABORATORY. TAMILNADU POLLUTION CONTROL BOARD.

SALEM - 636 004. Accredited by NABL - (ISO/IEC 17025:2017)



ULRTC98992300001390

TEST REPORT

Report No. 25 / AAOS/2023 - 24, Dated. 23.08.2023

1. Name of the Industry

: M/s.Seshasayee Paper & Boards Ltd.,

Alampalayam Village,

2. Address of the Industry:

Pallipalayam, Kumarapalayam Taluk,

Namakkal District - 638 007.

3. Date of survey

11.08.2023 & 12.08.2023

4. Matrix

Stack Emission

5. Date of Analysis

14.08.2023

Stack Monitoring Survey Results

		Pollutants Concentration (mg/Nm³)
Sl. No.	Stack attached to	PM
1.	Coal Fired Boiler (117 TPH)	15
2.	New Lime Kiln	25 .
3.	New Chemical Recovery Boiler	19

Test Method:

Particulate Matter - IS 11255 (Part 1) - 1985, (RA 2003)

Sampling Procedure

: AEL/SLM/SOP/G-08

* Results relate only to the tested samples.

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Page No.1 of 1



ADVANCED ENVIRONMENTAL LABORATORY, TAMILNADU POLLUTION CONTROL BOARD. SALEM - 636 004.

Accredited by NABL - (ISO/IEC 17025:2017)

TEST REPORT

Report No. 25 / AAOS/2023 - 24, Dated. 23.08.2023

1. Name of the Industry

M/s.Seshasayee Paper & Boards Ltd.,

Alampalayam Village,

2. Address of the Industry:

Pallipalayam, Kumarapalayam Taluk,

Namakkal District - 638 007.

3. Date of survey

11.08.2023 & 12.08.2023

4. Matrix

Stack Emission

5. Date of Analysis

14.08.2023

Stack Monitoring Survey Results

		၁့ '	·B _	te in	Pollutants Concentration (mg/Nm ³)					
Sl. No.	Stuck attached to	Stack Temp.	Velocity (m/sec)	Velocity i (m/sec)	Velocity i (m/sec)	Discharge rate in (Nm³/Hr)	SO ₂ *	NOx*	Cl₂*	H₂S*
1.	Coal Fired Boiler (117 TPH)	130	11.1	1,63,182	113	23	-	-		
2.	New Lime Kiln	145	11.8	53,540	15.	12	<0.005	0.038		
3.	New Chemical Recovery Boiler	158	11.1	73,037	17	15	<0.005	0.124		

Note:

Test Method:

Particulate Matter - IS 11255 (Part 1) - 1985, (RA 2003)

M. Port/24/8/23

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^{*} Indicates does not Covered in NABL Scope.

^{**} Indicate Minimum detectable limit.



TAMILNADU POLLUTION CONTROL BOARD Advanced Environmental Laboratory, Salem 636 004

STACK DETAILS

Report No. 25 /AEL - SLM/SM/2023 - 24, Dated: 23.08.2023

1. Name and Address of the Industry : M/s. Seshasayee Paper & Boards Ltd.,

Alampalayam Village, Pallipalayam

Kumarapalayam Taluk, Namakkal District - 638 007.

2. Date of Survey

: 11.08.2023 & 12.08.2023

SI. No.	Particulars	1	2	3
1	Stack attached to	CPP-Coal Fired Boiler	New Lime Kiln	New Chemical Recovery Boiler
2.	Details of process Stack	Coal is fired at the furnace — Steam is generated for turbine operation- Mechanical energy is converted to Electrical power energy.	Reburning of Lime mud and burning of lime stone Oxygenating Lime and Lime mud and recovering CaCO ₃ CaCO ₃ is used in Chemical recovery process for cooling of pulp.	Generation of steam by burning black liquor a waste product from pulp production. Steam is used to rotate the turbine and electricity is generated.
3	Height from G Level in (m)	85 mtr	60 mtr	75 mtr
4	Diameter in (m) Rectangular duct	2.31 x 2.31 mtr	1.5 mtr	2.987 x 0.885 mtr
5	Port hole height from Ground Level or bends or ducts in (m)	41.5 mtr	28 mtr	12 mtr
6	Fuel Used (with L% Sulphur Content)	Imported Coal	F.O	F.O. and BLS
7	Fuel Consumption rate per day (mention units)	On 11.08.2023 Imported Coal 342 Tons	On 12.08.2023 Furnace Oil = 21.9 KL	On 11.08.2023 F.O. = 0.2 KL BLS = 902 Tons
8	Boiler type and capacity	117 T/Hr	-	- 1
9	APC measures provided	ESP provided	ESP provided	ESP provided
10	APC functional status		APC Measures	were in operation
11	Ambient temp in °K	305° K	303° K	305° K
12	Temp of flue gas in °K	403° K	418° K	431° K
13	Velocity of flue gas in m/sec	11.1 m/sec	11.8 m/sec	11.1 m/sec
14	Volume of flue gas sampled in m ³	0.960 m ³	0.960 m ³	0.900 m ³
15	Gaseous Discharge rate per Hr.in Nm³/Hr	1,63,182 Nm³/Hr	53,540 Nm³/Hr	73,037 Nm³/Hr

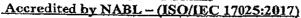
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SALEM - 636 004.





TC 9899

ULRTC98992300001390 **TEST REPORT**

Report No. 25 / AAQS/2023 - 24, Dated, 23.08.2023

1.	Name of the Industry	:	M/s. Seshasayee Paper & Boards Ltd.,
2.	Address of the Industry	:	Alampalayam Village, Pallipalayam Kumarapalayam Taluk, Namakkal District – 638 007.
3.	Date of survey	;	11.08.2023

Category	Red / Large
Land Use Classification	Residential (Rural)
Type of Survey	Ambient / Source
Time of Survey	Day
Meteorological Condition	Calm

Logging Parameters

	nobeme v arametera
Instrument Used	LARSON DAVIS SOUND LEVEL
	ANALYSER, Sl.No.824 A/2008
Ambient Temperature	33 °C
Ambient Relative Humidity	57 %
Measuring Range	50 -110 dB(A)
Weighing	"A"
Peak Weighing	"C"
Time Weighing	
Sound Incidence	Random
Time in Hrs	11:45 – 13:45 Hrs
· · · · · · · · · · · · · · · · · · ·	

Report of Noise Level Monitoring

SI.	Location	بها	ā		Sc	und Le	vel- dB	(A)	
No.	Location	Distance (m)	Direction	Leq	L _{Max}	L _{Min}	. L ₁₀	L ₅₀	L90
Ì.	BOUNDARY LINE:	.d		<u> </u>	!	<u></u>	1	<u> </u>	
01.	At the Main Gate (Admin.)	250	N	54.2	68.0	53.9	81.8	61.5	52.9
02.	Time Office Gate	250	NNE	54.3	65.3	52.7	82.0	61.5	52.7
03.	Old Diesel Bunk area	250	NE	53.7	66.3	52.7	82,3	62.5	52.9
04.	Odapalli Village area	300	SE	53.1	62.5	46.8	81.3	60.9	55.3
05.	SPB Guest House premises	600	WSW	54.4	63.7	53.2	82.8	77.3	52.3
06.	Intake well premises	250	W	54.8	69.8	54.2	82.7	68.9	54.1
07.	Bagasse Zone area	250	NW	54.9	63.7	52.2	82.4	65.3	55.8
08.	Vinayagar Temple premises	250	NNW	53.4	64.7	48.8	82.5	64.6	55.3
II.	INSIDE THE PLANT:				<u> </u>	<u> </u>	· · · · · · · · · · · · · · · · · · ·	L	
1	Wood pulp mill – RDH	-	-	82.9	87.0	80.4	83.1	79.7	77.2
2	Paper machine Ground floor	-	-	80.3	86.5	73.9	82.6	67.1	56.0
3	New Recovery Boiler Area	~	-	79.9	83.4	76.0	82.1	78.9	77.2
4	CPP-Power Boiler Ground Floor	-	-	78.6	81.0	75.5	82.0	78.6	77.1

Note: *Leq Value is the average energy for the measured period. Test Method: Sound Level (Leq) IS: 9989 - 1981 (RA 2001)

Sampling Procedure - AEL/SLM/SOP/G-08. * Results relate only to the tested samples. ** The report shall not be reproduced except in full without approval of the laboratory

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-End of Test Report -

Page No.1 of 1



TAMILNADU POLLUTION CONTROL BOARD Advanced Environmental Laboratory, Salem 636 004

Report No. 25 / AEL - SLM / AAQS / SM / NLS / 2023 - 24, Dated: 23.08.2023

1. Name and Address of the Industry: M/s. Seshasayee Paper & Board Ltd.,

Alampalayam Village,

Pallipalayam, Kumarapalayam Taluk, Namakkal District — 638 007.

2. Date of Survey : 11.08.2023 & 12.08.2023

Sl. No.	Head of Particulars	Particula	rs	
1	Process Description	Paper production by using Bagasse, wood wet lap pulp at waste paper as raw materials.		
2	Emission Source	3 Nos. of Stacks		
3	Fugitive Emission Sources	Frequent Vehicle movements were	re observed	
4.	Raw Material Consumptions	On 11.08.2023	12.08.2023	
		1. Baggasse : 257 Tons 2. Wood : 1405 Tons 3. Wet lab pulp : 100 Tons 4. Waste Paper : NIL 5. Imported Pulp : NIL	258 Tons 1527 Tons 96 Tons NIL NIL	
5	Production Capacity as Per Air Consent Order No. & Date	Various grades of paper = 165000 TPA (458 P/Day) Consent Order No.2208242224684 Dated 10.08.2022 Valid Up to: 31.03.2027		
-6	Production on the day of Survey \	Paper production On 11.08.2023 - 455.4 Tons On 12.08.2023 - 435.4 Tons		
7	Percent production with Respect to Air Consent Order	On 11.08.2023 – 99 % On 12.08,2023 – 95 %	-	
8	Details of APC	ESP's and Chimney provided		
9	Functional status of APC	All the APC measures were in operation		
10	Compliance with Consent Conditions	Complied		
11	Field Observations	Observed regular activities in rou	tine procedures	

M. 0-1/24/8/23 Env. Scientist

CHIEF SCIENTIFIC OFFICER AEL,TNPCB,SALEM.



TAMIL NADU POLLUTION CONTROL BOARD Advanced Environmental Laboratory, Salem 636 004

INFERENCE REPORT ON AAOS/SM

Report No. 25 /AEL - SLM/AAQS/SM/NLS/2023 - 24, Dated: 23.08.2023

1. Name and address of the Industry: M/s. Seshasayee Paper & Board Ltd.,

Alampalayam Village,

Pallipalayam, Kumarapalayam Taluk,

Namakkal District - 638 007.

2. Pollution category

3. Land use classification

: Red/Large

: Residential/Rural

4. Date of AAQ survey

: 11.08.2023 & 12.08.2023

5.Meteorological Conditions:

(i) Predominant Wind Direction

 $W \rightarrow E \& SW \rightarrow NE$

(ii) Weather condition

Clear Sky, Cloudy & Rainy 23:00 - 01:00 Hrs (2 Hours)

(iii) Rainfall

(iv) Temperature

min: 26

max: 34

(v) Relative Humidity (%)

min: 51 max: 89

STATUS OF POLLUTANTS LEVEL

I. AMBIENT AIR QUALITY:-

1. Total No. of AAQ stations monitored

: 06 Nos.

2. No.of AAQ stations in which Pollutants

Level exceeded the Boards Standard

: NIL

Maximum and minimum value of Pollutants Level observed:

<u>S1.</u>	Pollutant	Values in m	icrogram/m³	Board's Standard (as per		
<u>No.</u>		Minimum	Maximum	consent order) (μg/m³)		
1.	Respirable Suspended Particulate Matter: PM ₁₀	58	75	100		
2.	Gaseous Pollutants:- (i) SO ₂	13	22	80		
	(ii) NO ₂	18	26	80		
	(iii) Cl ₂	<1	<1	_		
	(iv) H ₂ .S	<0.02	<0.02	*		

Note: *Indicates Minimum Detectable Limit.

II) STACK MONITORING:

1) Total No. of Stacks Monitored

: 03 Nos.

2) No. of Stacks in which pollutant Level

: Nil

Exceeded the Board's Standard

MIN +/24/8/23

Env. Scientist

CHIEF SCIENTIFIC OFFICER AEL, TNPCB, SALEM.



TAMILNADU POLLUTION CONTROL BOARD

Advanced Environmental Laboratory, Salem 636 004

INVOICE

Report No. 25 /AEL - SLM/AAQS/SM/NLS/2023 - 24, Dated: 23.08.2023

Invoice No.	25/AIR/2023- 24
Date	23.08.2023

To
The Managing Director
M/s. Seshasayee Paper & Board Ltd.,
Alampalayam Village, Pallipalayam
Kumarapalayam Taluk, Namakkal District.

Ref: 1) T.O.Lr.No.TNPCB/CSO/AEL - SLM/AAQS/F.No.NKL/KUMPLM -Air-01/ 2023 - 24, Dated.23.06.2023.

2) Your Lr.No. A-1/351 Dated. 14.08.2023.

3) Cash Receipt No. 159116 Dated: 27.06.2023 for Rs. 2,43,450/-

Si. No.	Fees Details	Rate (Rs.)	No. of Stations	Amount (Rs.)
1.	SAMPLING CHARGES 1) Ambient Air Quality Monitoring 2) Source Emission Monitoring	10500 13100	6 3	63000 39300
2.	ANALYTICAL CHARGES:			
	i) Ambient Air Samples			
	PM ₁₀ : SO ₂ : NO ₂ : Cl ₂ : H ₂ S (each Rs.1050/=)	5250 X 3 =(15,750)	6	94500
	ii) Source Emission Samples a) PM: SO ₂ : NO _x (each Rs.1050/=)	3150	1	3150
	b) PM: SO ₂ : NO ₃ : CI: H ₂ S (each Rs.1050/-)	5250	2	10500
	c) PM: SO ₂ : NO _x : Cl ₂ (each Rs.1050/=)	4200	-	
3.	NOISE LEVEL MONITORING CHARGES:-			
	i) For first 5 stations	7000	5	7000
	ii) For each Additional Station	3500	7	24500
4.	TRANSPORTATION CHARGES		_	1500
	al (Two Lakh Forty Three Thousand Four Hu	ndred and Fife	y Only)	2,43,450
ĭ.es	s: Advance fees received vide C.R.No.159116	Dated: 27.06.2	023	2,43,450
	ance to be paid			NIL

M. 10 + /24/8/23

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Page No.10 of 10

Seshasayee Paper and Boards Limited - Erode 638 007

	Co	nsolidated AAQ Re	port - April	2023 to S	ept 2023	
Month	S.NO	Location	Direction	PM 10 (ug/m3) (Norm 100)	SO2 (ug/m3) (Norm 80)	NOx (ug/m3) (Norm 80)
	1	CAUVERY (RS)	NORTH	50	42	39
Apr-23	2	SPB ODAPALLI QUARTERS	SOUTH / SW	59	45	43
	3	AYYAKATTUR	EAST	62	52	47
	4	OFFICERS HOSTEL	WEST / SW	47	48	45
	1	CAUVERY (RS)	NORTH	55	38	43
May-23	2	SPB ODAPALLI	6011=11./01.1			
tviay-25	2	QUARTERS	SOUTH / SW	62	41	39
	3	AYYAKATTUR	EAST	59	45	43
	4	OFFICERS HOSTEL	WEST / SW		ļ	
	1	CAUVERY (RS)	NORTH	47	43	55
Jun-23	2	SPB ODAPALLI QUARTERS	SOUTH / SW	53	45	42
	3	AYYAKATTUR	EAST	58	43	45
	4	OFFICERS HOSTEL	WEST / SW	35	47	33
	1	CAUVERY (RS)	NORTH	51	40	59
Jul-23	2	SPB ODAPALLI QUARTERS	SOUTH / SW	55	48	46
	3	AYYAKATTUR	EAST	60	40	57
	4	OFFICERS HOSTEL	WEST / SW	38	49	31
	1	CAUVERY (RS)	NORTH	46	39	57
Aug-23	2	SPB ODAPALLI QUARTERS	SOUTH / SW	45	45	50
	3	AYYAKATTUR	EAST	53	38	53
	4	OFFICERS HOSTEL	WEST / SW	35	52	33
	1	CAUVERY (RS)	NORTH	52	43	52
		SPB ODAPALLI				
Sep-23	2	QUARTERS	SOUTH / SW	46	42	46
	3	AYYAKATTUR	EAST	58	35	58
	4	OFFICERS HOSTEL	WEST / SW	31	58	30

Mist nozzles installed

Enclosures with metalloid sheets- Bucket elevator



Sprinkler systems – Limekiln area

Fly-ash unloading area and the road area







Sprinkler systems are in place to mitigate the Fugitive emissions – Coal and ash handling area







Installation Barrigade wall in lime stone area

Raised compound wall near SETP





Raised compound wall and grown up tree saplings Tree saplings planterd





Water tanker with spray arrangement

The state of the s







Sprinklers in fuel handling area

- Real time data monitoring system Connected to TNPCB Care Air Centre and CPCB.
- ✓ Online Display Board installed at the main gate of the Company.



			Ef	per and Boar	hack to pre	DC0CC			
DATE	PAPER MACHINE EFFLUENT		SI	RP	UF &	Total Recycled	Effluent Discharged	Total	% of
	Non- Coloured (M3)	Coloured (M3)	Primary condensate	Secondary condensate	Reject (M3/D)	water (M3)	(M3)	effluent generated	water Recycled
Apr-23									
TOTAL	49560	127360	22330	87881	37010	324141	F40004	070010	
AVG	1652	4245	744	2929	1234	 	546801	870942	
MIN	576	2755	705	2094	1002	10805	18227	29031	38.13
MAX	2560	5420	810	3169	1527	8391	1883	12599	30.32
May-23			0.10	3103	1527	12727	20902	31542	85.05
TOTAL	44170	128713	20624	87179	37298	317984	505007		
AVG	1425	4152	665	2812	1203		585087	903071	
MIN	546	2160	152	656	970	10258 5521	18874	29131	35.12
MAX	2724	5131	805	3370	1441		16450	23817	23.18
			000	3370	1441	12487	21099	31992	39.48
Jun-23			,						
TOTAL	46895	148182	22088	94232	37142	348539	F7.4F.47	000000	
AVG	1563	4939	736	3141	1238	11618	574547	923086	
MIN	0	3975	672	2933	1097	9882	19152	30770	37.76
MAX	2557	6562	825	3350	1499		17261	29021	33.88
			020	3330	1499	13102	21243	34345	41.53
Jul-23							1		
TOTAL	46015	130275	23210	91831	33956	325287	F74440		
AVG	1484	4202	774	2962	1095		574118	885909	
MIN	600	1938	620	1638	948	10493 7448	18520	28578	37.73
MAX	2725	5923	856	3356	1288		13302	11833	32.17
				3330	1200	12230	21221	33090	87.37
Aug-23									
TOTAL	39101	150850	24536	94143	34684	242244	200100		
AVG	1396	4866	791	3037	1119	343314	602136	945450	
MIN	345	3896	563	2867		11075	19424	30498	36.31
MAX	2811	6594	972	3311	940	8450	17019	28192	29.97
Sep-23	2011	0004	3/2	3311	1256	13263	22190	32825	41.46
TOTAL	36303	135445	22403	0E71 <i>A</i>	21000	046005			
	00000	100440	22403	85714	31098	310963	569989	880952	

AVG

MIN

MAX

35.24

26.29

39.17

ABSTRACT FROM THE ANALYSIS REPORT OF IN - HOUSE IN RESPECT OF RIVER WATER - UPSTREAM AND DOWN STREAM

		Unit	Unit Oct-22	Nov-22	Dec-25	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jul-23	Aug-23	Sep-23
	HA		8.17	8.17	8.30	8.17	8.07	8.12	8.07	8.20	8.11	8.10	8.05
	Total Hardness	mdd	126	159	175	173	187	191	188	184	169	159	155
	P Alkalinity	mdd	0	0	0	0	0	0	0	0	0	0	0
UP	M Alkalinity	mdd	123	163	185	187	192	206	197	192	197	176	162
SIREAIM	Chlorides as "Cl"	mdd	40	44	49	45	74	81	87	74	49	46	35
	Sillica	mdd	11.6	12.7	15.9	17.6	19.8	20.7	20.1	19.5	19.1	19	19.1
	D.0	mdd	7.2	7.3	6.8	7.0	7.1	6.7	6.9	6.7	7.2	7.3	7.2
										Mila			
	PH		8.21	8.21	8.37	8.21	8.11	8.18	8.06	8.18	8.09	8.08	8.01
	Total Hardness	mdd	128	161	178	175	188	193	186	183	167	157	153
	P Alkalinity	шда	0	0	.0	0	0	0	0	0 .	0	0	0
STREAM	M Alkalinity	шdd	126	164	188	188	194	209	196	191	194	174	159
	Chlorides as "Cl"	mdd	41	45	51	46	92	82	98	73	48	45	33
	Silica	шdd	11.9	13	16.1	17.8	20.1	21	20.3	19.7	19.2	19.2	19.3
	D.O	mdd	7.4	7.4	7.0	7.2	7.2	6.8	7.1	6.8	82700	7.4	7.4

Table 5. Soil characteristics of long term effluent irrigated sites (June-2022)

	Parameters	E	ffluent irrigati	on.
S.No		20 years	30 years	40 years
l	pH	7.79	7.11	8.22
2	EC(dSm ⁻¹)	0.19	0.37	0.95
3	Organic carbon (%)	0.38	0.70	0.95
4	Available nitrogen (kg ha ⁻¹)	215	351	266
5	Available phosphorus (kg ha ⁻¹)	19.6	23	26
6	Available potassium(kg ha-1)	185	312	234
7	Exchangeable Ca(cmol(p+)kg-1)	0.72	0.67	1.32
8	Exchangeable Mg (cmol(p ⁺)kg ⁻¹)	0.62	0.86	0.49
9	Exchangeable Na (cmol(p ⁺)kg ⁻¹)	1.36	0.44	1.51
10	Exchangeable K (cmol(p ⁺)kg ⁻¹)	0.12	0.11	0.46
11	Bacteria (*106CFU g ⁻¹ of soil)	16	18	19
12	Fungi(*10 ⁴ CFU g ⁻¹ of soil)	10	7	8
13	Actinomycetes (*10 ² CFU g ⁻¹ of soil)	3	2	3

Professor and Head Dept. of Environmental Sciences

ABSTRACT FROM THE ANALYSIS REPORT OF ADVANCED ENVIRONMENTAL LABORATORY, (TNPCB) SALEM IN RESPECT OF GROUND WATER SAMPLE Dt 09 06 2023

Parameters	Unit	Sivakumar Borewell Kattur	Subramani Borewell, Appanaikenpalayam	Venila Borewell Pappampalayam	Jagathish Openwell Mukkuparai	SPB Borewell New Guest House
pH at 25 °C	Number	7.83	7.84	7.57	7.64	7.7
Total Dissolved Solids at 180 °C	mg/l	1052	1324	1052	926	1604
Chlorides as Cl	l/gm	225	310	215	205	420
Sulphates as SO4	l/gm	178	180	168	142	232
BOD (at 27 °C for 3days)	l/gm	<2	<2	<2	<2	<2
COD	l/gm	16	16	16	16	16
P.Alkalinity as CaCO3	l/gm	24	20	8	8	12
Fluoride as F	mg/l	0.122	0.127	0.122	0.111	0.166
Alkalinity as CaCO3	l/gm	244	268	244	236	304
Total Hardness CaCO3	l/gm	270	490	350	320	450
Calcium as CaCO3	mg/l	80	76	96	76	100
Magnesium as Mg	l/gm	17	73	27	46	49
Sodium as Na	l/biu	228	285	242	429	370
Potassium as K	l/gm	11	1		6	15
Iron Total as Fe	l/gm	<0.2	<0.2	<0.2	<0.2	<0.2
Total Kjeldahl Nitrogen	mg/l	3.36	3.36	3.36	3.36	3.36
Ammonical Nitrogen as NH3N	l/gm	1.12	1.12	1.12	1.12	1.12
% Sodium	%	64	63	59	71	63
Oil & Grease	l/gm	<3	<3	4	<3	4
Phosphate as P04	ma/l	0.139	0.139	0.139	0 139	0 139



TAMIL NADU AGRICULTURAL UNIVERSITY

Department of Environmental Sciences Coimbatore - 641 003, Tamil Nadu, India.

Dr. M. Maheswari, Ph.D., Professor and Head,

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No. P&H/ENS/TNAU/CBE/SPB / Analytical Result /2023 dt.-29.09.2023

Sir,

Sub: SPB - Analytical report - water samples - Benchmark sites - Sending - Reg.

I herewith enclose the analytical results of the monitoring well water sample (11Nos.) collected and handed over by Seshasayee Paper and Boards Limited, Erode unit on 20.07.2023 for your kind perusal.

Enr

30/9

Professor and Head

Depti of Environmental Sciences

Dect. of Environmental Secretary Tand Nado Agricultural University Combetors - 641 003.

To

The Managing Director Seshasayee Paper & Boards Ltd. Erode-7.

Table 1 Characteristics of water samples collected from benchmark sites (July-2023)

S.No	Sampling Points	pН	EC (dSm ⁻¹)	TS (mg/l)	BOD (mg/l)	COD (mg/l)
1.	Sakthi, Saravana Chambers, Odapalli	7.83	0.84	1235	6.6	38
2.	Rajendran, Vavakaddu, Pappampalayam	7.93	0.86	1032	5.4	40
3.	Jothimani, Chinnathottam, Pappampalayam	8.00	0.87	1059	4.9	38
4.	Rajavelu, Kattupallathuvalavu, Appanaickenpalayam	8.04	0.88	1045	5.1	31
5.	P.P.Marappan, Appanaickenpalayam	7.95	0.74	1109	3.9	36
6.	Ramasamy, Kattur	8.11	1.01	1004	4.0	32
7.	Chellapan, Thottathukadu, Devanampalayam	7.98	0.74	1141	4.9	. 30
8.	A.P.Chellamuthu, Pallkattuvalavu, Pappampalayam	8.04	0.68	873	3.9	38
9.	Kaliannagounder, Kalathukadu	7.99	0.65	1121	3,0	31
10.	P.Palaniappan, Kalathukadu	8.08	0.88	044		29
11.	Kadachanallur, PanchayatBorewell (Non-Irrigated Area) – Reference	8.22	1.19	1295	4.2	37

Table 2 Characteristics of anions in water samples collected from benchmark sites (July-2023)

S.No	Sampling Points	CI (meq/l)	CO ₃ (meq/l)	HCO ₃ (meq/l)	S
1.	Sakthi, Saravana Chambers, Odapalli	13.1	0.04		(me
2.	Rajendran, Vavakaddu, Pappampalayam	10.2	<u> </u>	1.8	2.:
· ^	Jothimani, Chinnathottam,	. 10.2	0.05	2.4	. 1.0
3.	Pappampalayam	6.9	0.07	2.5	1.3
4.	Rajavelu, Kattupallathuvalavu, Appanaickenpalayam	18.5	0.04	1.4	2.1
5,	P.P.Marappan, Appanaickenpalayam	14.2	0.03	1.9	1.9
6.	Ramasamy, Kattur	6.1	0.08	2,1	
7.	Chellapan, Thottaihukadu, Devanampalayam	12.9	0.04	1.9	1,5
8.	A.P.Chellamuthu, Pallkattuvalavu, Pappampalayam	5.9	0.08	1.7	1.33
. 9	Kaliannagounder, Kalathukadu	12,5	0.04	00	
10.	P.Palaniappan, Kalathukadu	7.1	0.04	0.9	1.89
11.	Kadachanallur, PanchayatBorewell		0.08	1.8	1:29
14.	(Non-Irrigated Area) - Reference	8.9	0.11	3.5	2.66

Table 3 Characteristics of cations in water samples collected from benchmark sites (July-2023)

S.No	Sampling Points	Na (meq/l)	K (meq/l)	Mg (meq/l)	Ca (meq/l)
1.	Sakthi, Saravana Chambers, Odapalli	4,25	0.11	11.1	7.5
2.	Rajendran, Vavakaddu, Pappampalayam	4.82	0.35	4.6	4.9
3.	Jothimani, Chinnathottam, Pappampalayam	3.01	0.16	4.8	3.9
4.	Rajavelu, Kattupallathuvalavu, Appanaickenpalayam	7.65	0.35	11.3	10.6
5.	P.P.Marappan, Appanaickenpalayam	3,62	0.19	6.1	8.9
6.	Ramasamy, Kattur	4.39	0.17	5.8	4.2
.7.	Chellapan, Thottathukadu, Devanampalayam	3.05	0.16	5.4	7.6
8.	A.P.Chellamuthu, Pallkattuvalavu, Pappampalayam	3.19	0.19	3.8	3.8
9.	Kaliannagounder, Kalathukadu	3.41	0.14	5.6	5.5
10.	P.Palaniappan, Kalathukadu	2.84		2.2	
11.	Kadachanallur, PanchayatBorewell (Non- Irrigated Area) – Reference	7.45	0.13	4.5	4.5

Table 4 Characteristics of water samples collected from benchmark sites (July - 2023)

S.No	Sampling Points	SAR	SSP(%)	PS	RSC
1.	Sakthi, Saravana Chambers, Odapalli	1.17	18:45	16.71	-16.51
2.	Rajendran, Vavakaddu, Pappampalayam	1.80	33.80	10.26	-6.62
3,	Jothimani, Chinnathottam, Pappampalayam	1.25	26.17	7.18	-
4.	Rajavelu, Kattupallathuvalavu, Appanaickenpalayam	1.84	25.15	20.61	6.39 -21.27
5.	P.P.Marappan, Appanaickenpalayam	1,25	20.65	15.53	-12.61
6.	Ramasamy, Kattur	1.71	31.15	6.56	-7.75
7.	Chellapan, Thottathukadu, Devanampalayam	0.94	18.29	14.13	-11.69
8.	A.P.Chellamuthu, Pallkattuvalavu, Pappampalayam	1.41	30.31	6.41	-5.46
9.	Kaliannagounder, Kalathukadu	1.24	24.11	14.76	-9.61
10.	P.Palaniappan, Kalathukadu	1.19	28.65	8.31	-5.13
11.	Kadachanallur, PanchayatBorewell (Non- Irrigated Area) - Reference	2.85	43.59	10.14	-5.15 -5.46

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