

SESHASAYEE PAPER AND BOARDS LIMITED

Environment Clearance F.No. J-11011/194/2013-IA II (I) dated 22 01 2016

COMPLIANCE REPORT FOR THE PERIOD APRIL 2023 – SEPTEMBER 2023

A	Specific Condition	
Sl.No	EC Condition	Compliance Status
1	The project proponent should install 24x7 air and water monitoring devices to monitor air emission and effluent is discharged, as provided by CPCB and submit report to Ministry and its Regional Office.	<ul style="list-style-type: none"> All the boiler stacks (fitted with individual ESP's) & final effluent ETP connected online (24x7) with Care Air Centre of TNPCB, Chennai & CPCB. Status-Complied.
2	The project authority should install multi cyclones, wet scrubbers with the boilers to achieve the particulate emission below 50 mg/Nm ³ , The emissions from chemical recovery section should be controlled through primary and secondary venturi scrubbers.	<ul style="list-style-type: none"> Industry has already installed ESP's in all stacks. Company 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 the regard. Status-Complied.
3	In case of treatment process disturbances / failure of pollution control equipment adopted by the unit, the respective unit should be shut down and should not be restarted until the control measures are rectified to achieve the desired efficiency.	<ul style="list-style-type: none"> Being a continuous process industry, uninterrupted power supply to pollution control equipments are maintained through captive power generation backed by the TNEB supply. Status-Complied.



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4	<p>The industry should ensure the compliance of the standards for discharge of the treated effluent from the unit as stipulated under the EPA rules or SPCB. Adequate steps including use of modern RO/UF based technologies should be used to increase recycling and reduce water consumption.</p>	<ul style="list-style-type: none">Various in plant water conservation measures were undertaken at source and the process water consumption is reduced substantially.The effluent after final treatment meets the statutory requirements prescribed by the SPCB (Inland surface water discharge standards). This is monitored by In house / SPCB/CPCB (Online).Pre-treated wastewater is recycled back to process around 37.5% (Report enclosed as annexure – a). <p>Recycled wastewater details:</p> <table><tr><th>Months</th><th>Percentage of WW recycled</th></tr><tr><td>Apr 21 – Sep 21</td><td>38.91%</td></tr><tr><td>Oct 21 – Mar 22</td><td>36.82%</td></tr><tr><td>Apr 22 – Sep 22</td><td>38.57%</td></tr><tr><td>Oct 22 – Mar 23</td><td>38.09%</td></tr><tr><td>Apr 23 – Sep 23</td><td>36.75%</td></tr></table>	Months	Percentage of WW recycled	Apr 21 – Sep 21	38.91%	Oct 21 – Mar 22	36.82%	Apr 22 – Sep 22	38.57%	Oct 22 – Mar 23	38.09%	Apr 23 – Sep 23	36.75%
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5	<p>Regular monitoring of ground water quality should be carried out in and around the project site by establishing a network of existing wells and installing new piezometers during the operation. The periodic monitoring [(at least four times in a year- pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] should be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment, Forest and Climate Change and its Regional Office, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater quality is affected due to the project activity, necessary corrective measures should be carried out.</p>	<ul style="list-style-type: none">Monitoring on ground water is taken up by TNAU/TNPCB and in-house.Covering four seasons on the year as stipulated (Report enclosed as annexure – b (i), (ii) & (iii). <p>Status - Complied.</p>												



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6	The company should submit the comprehensive water management plan along with monitoring plan for the ground water quality and the level, within three months from date of issue of this letter.	<ul style="list-style-type: none">Industry has an extensive water management plan along with the monitoring plan for the ground water quality.The ground water quality is checked once in a quarter periodically.The reports are enclosed Annexure – b Status-Complied.																																																																																																
7	The project authority should dispose of hazardous waste as per the provision of Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008.	<ul style="list-style-type: none">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																																																																																																
8	The company should develop green belt in 33% of the total land as per the CPCB guidelines to mitigate the effect of fugitive emissions.	<ul style="list-style-type: none">Adequate Green Belt is developedPhotos are enclosed as annexure - c.In addition to that tree saplings under the Kurunkadugal Scheme developed. Details as follow; <table><tr><th rowspan="3">S.No</th><th rowspan="3">Tree Species</th><th colspan="3">Saplings planted (Nos.)</th></tr><tr><th>I phase</th><th>II phase</th><th>III phase</th></tr><tr><th>PPM Farm</th><th>OPLIS area</th><th>Mukku para</th></tr><tr><td></td><td></td><td>2022-23</td><td>2023-24</td><td>2023-24</td></tr><tr><td>1</td><td>Mahogany</td><td>17</td><td>0</td><td>0</td></tr><tr><td>2</td><td>Thandri</td><td>1</td><td>0</td><td>0</td></tr><tr><td>3</td><td>Pungan</td><td>130</td><td>13</td><td>89</td></tr><tr><td>4</td><td>Illupai</td><td>52</td><td>111</td><td>140</td></tr><tr><td>5</td><td>Neermarudhu</td><td>123</td><td>0</td><td>15</td></tr><tr><td>6</td><td>Poovarasu</td><td>85</td><td>6</td><td>9</td></tr><tr><td>7</td><td>Naval</td><td>50</td><td>15</td><td>5</td></tr><tr><td>8</td><td>Puliyen</td><td>120</td><td>0</td><td>0</td></tr><tr><td>9</td><td>Sorghum</td><td>133</td><td>6</td><td>11</td></tr><tr><td>10</td><td>Athi</td><td>150</td><td>0</td><td>0</td></tr><tr><td>11</td><td>Aayan</td><td>1</td><td>0</td><td>0</td></tr><tr><td>12</td><td>Vembu</td><td>112</td><td>30</td><td>50</td></tr><tr><td>13</td><td>Spathodia</td><td>100</td><td>0</td><td>0</td></tr><tr><td>14</td><td>Arasu</td><td>0</td><td>0</td><td>5</td></tr><tr><td>15</td><td>Malaivembu SPB Nursery</td><td>0</td><td>160</td><td>0</td></tr><tr><td colspan="2">TOTAL</td><td>1074</td><td>341</td><td>324</td></tr></table> Status: Complied.	S.No	Tree Species	Saplings planted (Nos.)			I phase	II phase	III phase	PPM Farm	OPLIS area	Mukku para			2022-23	2023-24	2023-24	1	Mahogany	17	0	0	2	Thandri	1	0	0	3	Pungan	130	13	89	4	Illupai	52	111	140	5	Neermarudhu	123	0	15	6	Poovarasu	85	6	9	7	Naval	50	15	5	8	Puliyen	120	0	0	9	Sorghum	133	6	11	10	Athi	150	0	0	11	Aayan	1	0	0	12	Vembu	112	30	50	13	Spathodia	100	0	0	14	Arasu	0	0	5	15	Malaivembu SPB Nursery	0	160	0	TOTAL		1074	341	324
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9	Pre-placement medical examination and periodical medical examination of the workers engaged in the project should be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly. Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	<p>The project is already completed.</p> <ul style="list-style-type: none"> • Company is carrying out health surveillance programme and annual medical check-up for their employees. • Industry has established full-fledged OHC with full time Medical Officer and round the clock nursing staff. • Records are maintained as per the Factories Act. <p>Status - Complied.</p>
10	The company should make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	<ul style="list-style-type: none"> • Adequate Fire Protection System in the place to mitigate the fire hazards <p>Status-Complied.</p>
11	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the pulp and paper sector should be strictly implemented.	<ul style="list-style-type: none"> • All the CREP requirements are implemented - Complied and the report is enclosed. Annexure - d
12	All the commitments made to the public during the Public Hearing / Public Consultation meeting should be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office.	This is being followed
13	Provision should be made for the housing of construction labour with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	<ul style="list-style-type: none"> • Complied and the project has been completed.



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14	At least 5% of the total cost of the project shall be earmarked towards Enterprise Social Commitment (ESC) based on locals' needs and the activity-wise details and village-wise details along with time-schedule for implementation shall be prepared in consultation with village panchayats and district administration and submitted to the Ministry's Regional Office. Implementation of such programme shall be ensured accordingly in a time-bound manner.	<p>Being Complied with.</p> <p>The details of funds spent for Enterprise Social Commitment (ESC) for the last 4 years.</p> <p>FY 2018 -19 - Rs 2.58 Crores</p> <p>FY 2019 - 20 - Rs 4.24 Crores</p> <p>FY 2020 - 21 - Rs 4.77 Crores</p> <p>FY 2021 - 22 - Rs 4.21 Crores</p> <p>FY 2022 - 23 - Rs 3.41 Crores</p> <p>The CSR policy has been posted on the website of the Company - www.spbltd.com</p> <p>Status- Complied</p>																
B	General Conditions:																	
1	The project authorities must strictly adhere to the stipulations made by the Tamilnadu Pollution Control Board and the State Government.	<ul style="list-style-type: none">The stipulations made by TNPCB is adhered. <p>Status-Complied</p>																
2	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	<p>SPB mill abide with this condition.</p> <p>Production Details:</p> <table><tr><th>Year</th><th>Tonnes /Annum</th></tr><tr><td>2017-18</td><td>1 21 593</td></tr><tr><td>2018-19</td><td>1 32 379</td></tr><tr><td>2019-20</td><td>1 25 313</td></tr><tr><td>2020-21</td><td>1 12 489</td></tr><tr><td>2021-22</td><td>1 41 706</td></tr><tr><td>2022-23</td><td>1 63 908</td></tr><tr><td>2023-24 last Six months (Apr – Sep)</td><td>78805</td></tr></table>	Year	Tonnes /Annum	2017-18	1 21 593	2018-19	1 32 379	2019-20	1 25 313	2020-21	1 12 489	2021-22	1 41 706	2022-23	1 63 908	2023-24 last Six months (Apr – Sep)	78805
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3	<p>At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM₁₀, PM_{2.5}, SO₂ and NO_x are anticipated in consultation with the SPCB.</p> <p>Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Chennai and the SPCB / CPCB once in six months.</p>	<ul style="list-style-type: none">Ambient Air Quality is being monitored in four directions of the company premises. The reports are submitted once in six months. <p>Status – Complied</p> <ul style="list-style-type: none">This is being monitored regularly by Advanced Environmental Laboratory, Salem is conducting stack emission and AAQ survey twice in a year and their analysis report confirm compliance of stipulated standards in this regard. <p>(TNPCB survey has been conducted on 11 08 2023 and 12 08 2023)</p> <p>Status- Complied</p>																				
4	<p>Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended form time to time. The treated wastewater shall be utilized for plantation purpose.</p>	<ul style="list-style-type: none">The Wastewater is treated to the Inland Surface Water Discharge Standards after extensive recycling within the plant and further used for irrigation. <p>Status- Complied</p>																				
5	<p>The overall noise-levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).</p>	<ul style="list-style-type: none">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 <p>Status - Complied</p> <table><tr><th>Location</th><th>Sound Level – dB(A)</th></tr><tr><td>Boundary Line</td><td>75dBA (daytime)</td></tr><tr><td>At the main gate (Admin)</td><td>54.2</td></tr><tr><td>Time office Gate</td><td>54.3</td></tr><tr><td>Diesel Bunk area</td><td>53.7</td></tr><tr><td>Odapalli Village area</td><td>53.1</td></tr><tr><td>SPB Gust House premises</td><td>54.4</td></tr><tr><td>Intake well premises</td><td>54.8</td></tr><tr><td>Bagasse Zone area</td><td>54.9</td></tr><tr><td>Vinayagar Temple premises</td><td>53.4</td></tr></table>	Location	Sound Level – dB(A)	Boundary Line	75dBA (daytime)	At the main gate (Admin)	54.2	Time office Gate	54.3	Diesel Bunk area	53.7	Odapalli Village area	53.1	SPB Gust House premises	54.4	Intake well premises	54.8	Bagasse Zone area	54.9	Vinayagar Temple premises	53.4
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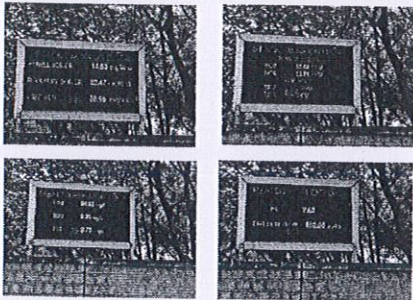


		<table><tr><td>Inside the Plant</td><td>85 dBA</td></tr><tr><td>Wood pulp mill – RDH</td><td>82.9</td></tr><tr><td>Paper Machine Ground floor</td><td>80.3</td></tr><tr><td>New Recovery Boiler Area</td><td>79.9</td></tr><tr><td>CPP – Power Boiler ground floor</td><td>78.9</td></tr></table> <p>Extracted from Analysis Report of Advanced Environmental Lab, TNPCB Salem for the period April 2023 – September 2023</p>	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
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6	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	<p>Being followed.</p> <ul style="list-style-type: none">• Company is carrying out health surveillance programme and annual medical check-up for their employees.• Industry has established full-fledged OHC with full time Medical Officer and round the clock nursing staff.• Company has obtained accreditation under OHSMS 45001 (Occupational Health & Safety Management Systems), by M/s Det Norske Veritas, The Netherlands.										
7	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	<ul style="list-style-type: none">• RWH Structures are constructed inside the mill for recharge and for reuse. In all the quarters RWH were installed numbering 1032 for ground water recharge. <p>Status -Complied.</p>										
8	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	<ul style="list-style-type: none">• 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.										



		<ul style="list-style-type: none"> • 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 Government 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 villages 1.42 crores • Contribution to disaster management, including relief fund, rehabilitation and reconstruction activity. <p>Status - Complied</p>
9	<p>Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change (MoEFCC) as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Chennai, The funds so provided shall not be diverted for any other purpose.</p>	<ul style="list-style-type: none"> • Requisite funds have been earmarked for the Environment Pollution Control Measures as stipulated by the Ministry of Environment, Forests and Climate Change and the State Government. <p>Status - Complied.</p>



Sl.No	EC Condition	Compliance Status												
10	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	The same is being exhibited in the company website Complied.												
11	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEFCC at Chennai, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	<ul style="list-style-type: none">The same is being exhibited in the company website Complied.CAAQMS & OCEMS Real time data monitoring system Connected to TNPCB Care Air Centre and CPCB.Online Display Board installed at the main gate of the Company. <p>REAL TIME DATA ACQUISITION & MONITORING SYSTEM</p>  <p>Connected to TNPCB Care Air Center and CPCB</p> <p>Status- Complied.</p>												
12	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEFCC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Chennai / CPCB / SPCB shall monitor the stipulated conditions.	<p>Being submitted regularly.</p> <p>EC Six monthly compliance report for the last year were submitted as detailed below;</p> <table><tr><th>Year</th><th>Submitted on</th></tr><tr><td>Oct 20 - Mar 21</td><td>12 04 2021</td></tr><tr><td>Apr 21 – Sep 21</td><td>13 10 2021</td></tr><tr><td>Oct 21 – Mar 22</td><td>09 05 2022</td></tr><tr><td>Apr 22 – Sep 22</td><td>31 10 2022</td></tr><tr><td>Oct 22 – Mar 23</td><td>25 05 2023</td></tr></table> <p>Status- Complied</p>	Year	Submitted on	Oct 20 - Mar 21	12 04 2021	Apr 21 – Sep 21	13 10 2021	Oct 21 – Mar 22	09 05 2022	Apr 22 – Sep 22	31 10 2022	Oct 22 – Mar 23	25 05 2023
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Sl.No	EC Condition	Compliance Status												
13	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEFCC at Chennai by e-mail.	Submitted regularly. Environmental Statement (Form - V) for the last four years were submitted as detailed below; <table><tr><th>Year</th><th>Submitted on</th></tr><tr><td>2018-19</td><td>26 09 2019</td></tr><tr><td>2019-20</td><td>26 09 2020</td></tr><tr><td>2020-21</td><td>25 09 2021</td></tr><tr><td>2021-22</td><td>19 09 2022</td></tr><tr><td>2022-23</td><td>25 09 2023</td></tr></table> Status - Complied.	Year	Submitted on	2018-19	26 09 2019	2019-20	26 09 2020	2020-21	25 09 2021	2021-22	19 09 2022	2022-23	25 09 2023
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14	The Project Proponent shall inform the public that the project has been accorded Environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forests and Climate Change (MoEFCC) at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Chennai.	The same is being exhibited in the company website Complied.												
15	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Complied.												

Sl.No	EC Condition	Compliance Status				
Amendment in Environment Clearance F.No. J-11011/194/2013-IA II (I) dated 18 11 2019						
15 A	There shall be no increase in chemical utilization and water consumption while maintaining the production of paper as approved.	Being followed - Complied. Specific water consumption for the FY 2022 -2023 as detailed below; <table><tr><td>Financial Year</td><td>Water Con., use - Kl/t of products</td></tr><tr><td>2022 -2023</td><td>44.58</td></tr></table>	Financial Year	Water Con., use - Kl/t of products	2022 -2023	44.58
Financial Year	Water Con., use - Kl/t of products					
2022 -2023	44.58					

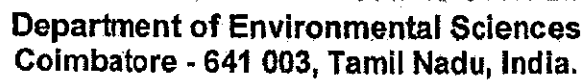


Seshasayee Paper and Boards Limited - Erode 638 007

Effluent recycled back to process

DATE	PAPER MACHINE EFFLUENT		SRP		UF & RO Reject (M3/D)	Total Recycled water (M3)	Effluent Discharged (M3)	Total effluent generated	% of water Recycled
	Non-Coloured (M3)	Coloured (M3)	Primary condensate	Secondary condensate					
Apr-23									
TOTAL	49560	127360	22330	87881	37010	324141	546801	870942	
AVG	1652	4245	744	2929	1234	10805	18227	29031	38.13
MIN	576	2755	705	2094	1002	8391	1883	12599	30.32
MAX	2560	5420	810	3169	1527	12727	20902	31542	85.05
May-23									
TOTAL	44170	128713	20624	87179	37298	317984	585087	903071	
AVG	1425	4152	665	2812	1203	10258	18874	29131	35.12
MIN	546	2160	152	656	970	5521	16450	23817	23.18
MAX	2724	5131	805	3370	1441	12487	21099	31992	39.48
Jun-23									
TOTAL	46895	148182	22088	94232	37142	348539	574547	923086	
AVG	1563	4939	736	3141	1238	11618	19152	30770	37.76
MIN	0	3975	672	2933	1097	9882	17261	29021	33.88
MAX	2557	6562	825	3350	1499	13102	21243	34345	41.53
Jul-23									
TOTAL	46015	130275	23210	91831	33956	325287	574118	885909	
AVG	1484	4202	774	2962	1095	10493	18520	28578	37.73
MIN	600	1938	620	1638	948	7448	13302	11833	32.17
MAX	2725	5923	856	3356	1288	12230	21221	33090	87.37
Aug-23									
TOTAL	39101	150850	24536	94143	34684	343314	602136	945450	
AVG	1396	4866	791	3037	1119	11075	19424	30498	36.31
MIN	345	3896	563	2867	940	8450	17019	28192	29.97
MAX	2811	6594	972	3311	1256	13263	22190	32825	41.46
Sep-23									
TOTAL	36303	135445	22403	85714	31098	310963	569989	880952	
AVG	1297	4515	773	2956	1037	10365	19000	29365	35.24
MIN	227	71	345	713	830	6806	15541	24143	26.29
MAX	2334	5930	851	3455	1224	12401	22000	33435	39.17





Phone : 0422 – 6611452 (Direct)
0422 – 6611252 (O)
E.mail : environment@tnau.ac.in

E.mail : environment@tnau.ac.in

$$\frac{2}{30/9}$$

Dept. of Environmental Sciences
Tamil Nadu Agricultural University
Coimbatore - 641 003.

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	pH	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	944	4.6	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)

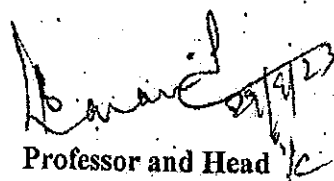
S.No	Sampling Points	Cl (meq/l)	CO ₃ (meq/l)	HCO ₃ (meq/l)	SO ₄ (meq/l)
1.	Sakthi, Saravana Chambers, Odapalli	13.1	0.04	1.8	2.31
2.	Rajendran, Vavakaddu, Pappampalayam	10.2	0.05	2.4	1.62
3.	Jothimani, Chinnathottam, Pappampalayam	6.9	0.07	2.5	1.39
4.	Rajavelu, Kattupallathuvalavu, Appanaickenpalayam	18.5	0.04	1.4	2.15
5.	P.P.Marappan, Appanaickenpalayam	14.2	0.03	1.9	1.90
6.	Ramasamy, Kattur	6.1	0.08	2.1	1.51
7.	Chellapan, Thottathukadu, Devanampalayam	12.9	0.04	1.9	1.65
8.	A.P.Chellamuthu, Pallkattuvalavu, Pappampalayam	5.9	0.08	1.7	1.35
9.	Kaliannagounder, Kalathukadu	12.5	0.04	0.9	1.89
10.	P.Palaniappan, Kalathukadu	7.1	0.08	1.8	1.29
11.	Kadachanallur, PanchayatBorewell (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	0.13	2.2	4.7
11.	Kadachanallur, PanchayatBorewell (Non- Irrigated Area) – Reference	7.45	0.45	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	6.39
4.	Rajavelu, Kattupallathuvalavu, Appanaickenpalayam	1.84	25.15	20.61	-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, Panchayat Borewell (Non- Irrigated Area) –Reference	2.85	43.59	10.14	-5.46


Professor and Head
Dept. of Environmental Sciences
 Dept. of Environmental Sciences
 Tamil Nadu Agricultural University
 Coimbatore - 641 002

Green Belt Development Latitude & Longitude



11° 20' 59" N -77° 45' 33" E



11° 20' 59" N -77° 45' 34" E



11° 20' 59" N -77° 45' 33" E

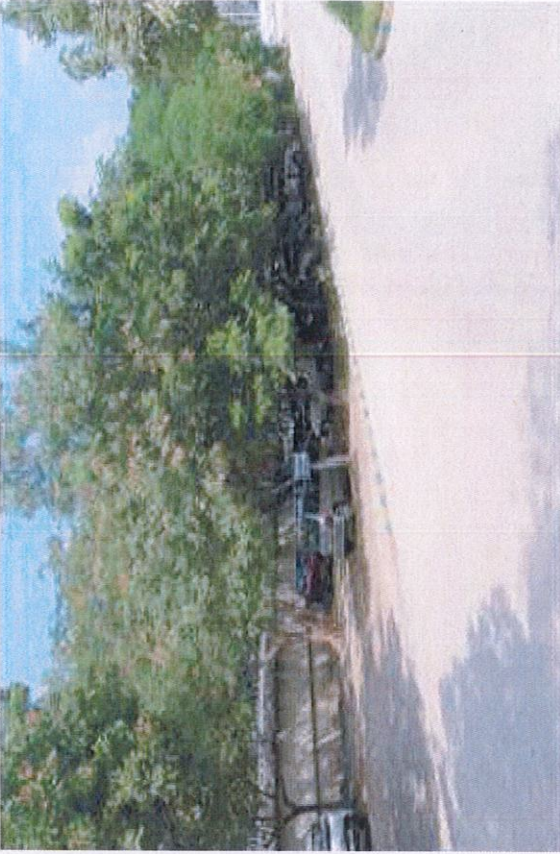


11° 20' 59" N -77° 45' 35" E





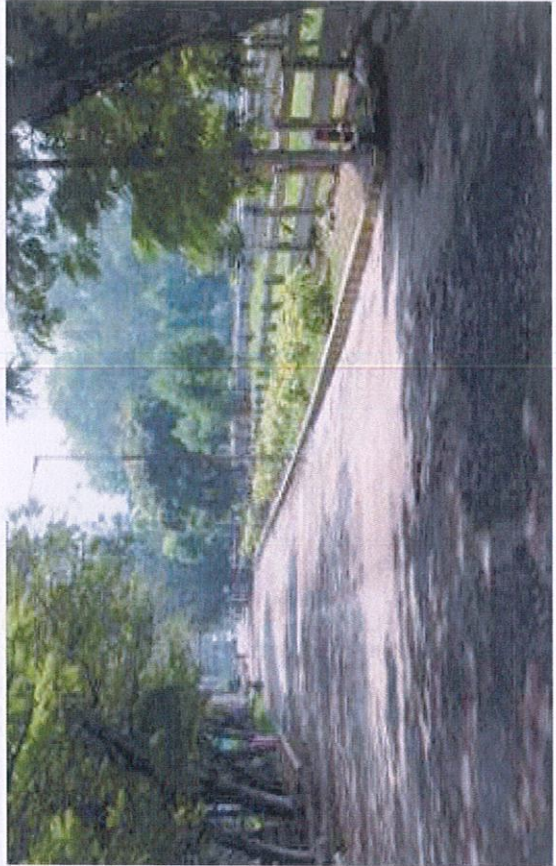
11° 21' 00" N -77° 45' 37"E



11° 21' 00" N -77° 45' 36"E



11° 20' 43" N -77° 45' 20"E



11° 20' 47" N -77° 45' 23"E





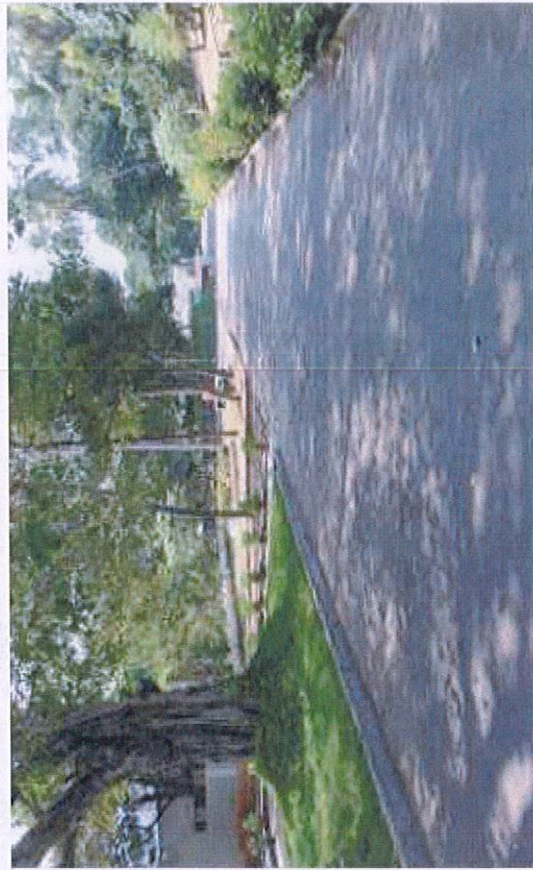
11° 20' 47" N -77° 45' 24"E



11° 20' 47" N -77° 45' 26"E



11° 20' 44" N -77° 45' 23"E

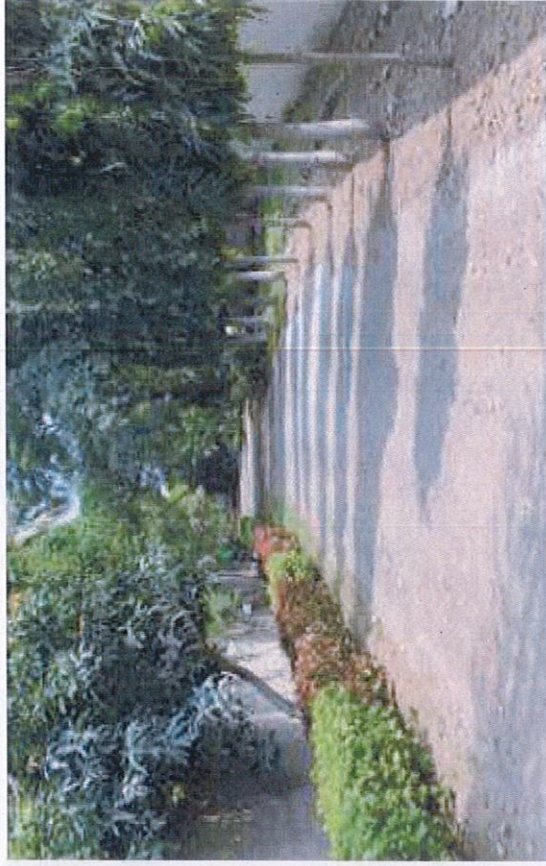


11° 20' 44" N -77° 45' 22"E

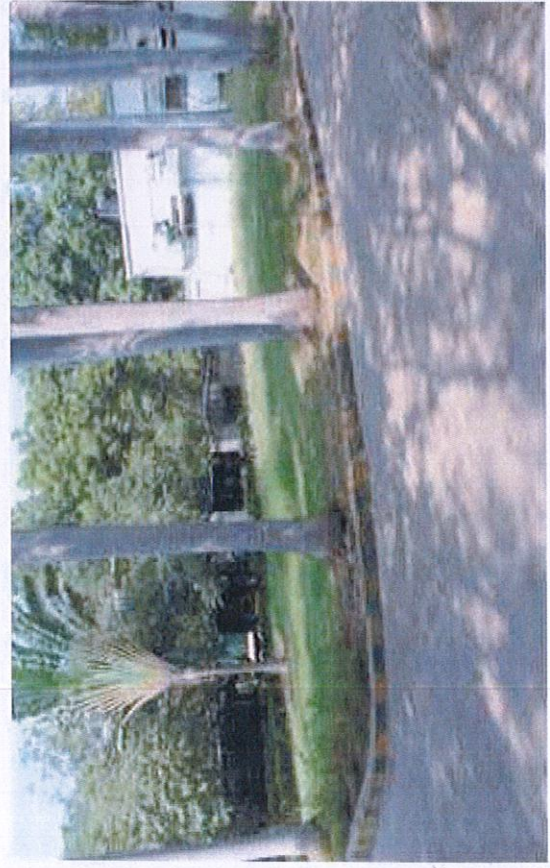




11° 20' 54" N -77° 45' 41"E



11° 20' 54" N -77° 45' 42"E



11° 20' 43" N -77° 45' 20"E



11° 20' 43" N -77° 45' 19"E





Seshasayee Paper and Boards Limited

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 02 28

Joint Chief Environmental Engineer
Tamil Nadu Pollution Control Board
No.9, 4th Cross Street
Brindavan Road, Fairlands,
Salem 636 016

Dear Sir,

Sub: Development of Kurunkaduagal Scheme

Ref: 1. Lr. No. DEE/TNPCB/KMP/2022/ dated 28/10/22

**2. Lr. No. F.212/Kurunkadugal /JCEE(M) /TNPCB/SLM/2023-1 dated
16/02/2023**

With reference to the above subject, we herewith furnish the Kurunkadugal scheme details.

Sl.No	Description		
1	Name and Address of the Industry	M/s Seshasayee Paper and Boards Limited, Pallipalayam, Namakkal Dt, Erode - 638 007	
2	Land identified and scheme area	Industries own land at Pappampalayam	
3	Latitude & Longitude	11°20' 02" N & 77° 46' 20" E	
4	Tree saplings planted area	2 Acres	
5	Total tree saplings planted	1074 Nos	
6	Tree species are planted under Kurunkadugal scheme	S.No	Tree Species
		Planted Nos.	
		1	Mahogany
		2	Thandri
		3	Pungan
		4	Illupai
		5	Neer marudhu
		6	Poovarasu





..2..

Sl.No	Description		
6	Tree species are planted under Kurunkadugal scheme (Contd.)	S.No	Tree Species
		Planted Nos.	
		7	Naval
		8	Puliyar
		9	Sorghum
		10	Athi
		11	Aayan
		12	Vembu
		13	Spathodia
			Planted Nos.
			50
			120
			133
			150
			1
			112
			100

We herewith enclosed the photos of tree saplings in Pappampalayam under Kurunkadugal scheme your kind reference.

For your kind information please.

Thanking you,

Yours faithfully
For Seshasayee Paper and Boards Limited

GANESH BALAKRISHNA BHADTI
Director (operations)

Encl: As above

cc: District Environmental Engineer
Tamil Nadu Pollution Control Board
No: 298/A, Thiruvalluvar Nagar,
Salem Main Road, Komarapalayam
Namakkal District - 638 183

cc: The Member Secretary
Tamilnadu Pollution Control Board
76 Mount Salai, Guindy
Chennai 600 032









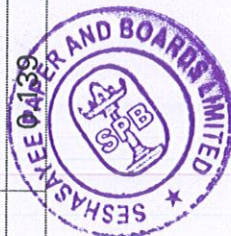






ABSTRACT FROM THE ANALYSIS REPORT OF ADVANCED ENVIRONMENTAL LABORATORY, (TNPCB) SALEM IN RESPECT OF GROUND WATER SAMPLE
Dt 09 06 2023

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	976	1604
Chlorides as Cl	mg/l	225	310	215	205	420
Sulphates as SO4	mg/l	178	180	168	142	232
BOD (at 27 °C for 3days)	mg/l	<2	<2	<2	<2	<2
COD	mg/l	16	16	16	16	16
P.Alkalinity as CaCO3	mg/l	24	20	8	8	12
Fluoride as F	mg/l	0.122	0.127	0.122	0.111	0.166
Alkalinity as CaCO3	mg/l	244	268	244	236	304
Total Hardness CaCO3	mg/l	270	490	350	320	450
Calcium as CaCO3	mg/l	80	76	96	76	100
Magnesium as Mg	mg/l	17	73	27	46	49
Sodium as Na	mg/l	228	285	242	429	370
Potassium as K	mg/l	11	11	11	9	15
Iron Total as Fe	mg/l	<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	mg/l	1.12	1.12	1.12	1.12	1.12
% Sodium	%	64	63	59	71	63
Oil & Grease	mg/l	<3	<3	4	<3	4
Phosphate as P04	mg/l	0.139	0.139	0.139	0.139	0.139



IN HOUSE MONITORING - PEIZOMETRIC WELL WATER ANALYSIS RESULTS 2023 - 2024												
		Sampe collected on 11.04.2023						Sampe collected on 24.08.2023				
		1	2	3	4	Ref	1	2	3	4	Ref	
Sampling points	UOM	Mr.Jagathish, borewell, Mukkuparai	Ms.Vennila, borewell, Pappampalayam	Mr.Subramani, Borewell, Appanaikanapalayam	Mr.Sivakumar, Borewell, Kattur	Borewell (Non Irrigated area)	Mr.Jagathish, borewell, Mukkuparai	Ms.Vennila, borewell, Pappampalayam	Mr.Subramani, Borewell, Appanaikanapalayam	Mr.Sivakumar, Borewell, Kattur	Borewell (Non Irrigated area)	
pH		7.35	7.41	7.36	7.27	7.45	7.39	7.36	7.4	7.36	7.29	
TDS as inorganics	ppm	954	928	940	950	936	940	928	920	908	902	
Total hardness (as CaCO ₃)	ppm	320	340	334	308	296	300	298	274	312	320	
Calcium hardness (as CaCO ₃)	ppm	200	212	204	210	190	184	176	168	190	188	
Magnesium hardness (as CaCO ₃)	ppm	120	128	130	98	106	116	122	106	122	132	
Chlorides as cl-	ppm	278	246	268	228	236	248	254	260	272	248	
p'alkalinity	ppm	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	
m'alkalinity	ppm	296	292	287	276	260	280	290	276	288	276	
Sodium as Na	ppm	160	156	140	152	148	146	152	146	138	146	
Potassium as K	ppm	4	4	3	3	4	4	3	3		4	



Seshasayee Paper and Boards Ltd
Erode – 638007

Charter on Corporate Responsibility for Environmental Protection (CREP – 2003)

Status Report (2023 -2024)

S.No	Particulars	Implementation Schedule	Status
1	Discharge of AOX -kg/ton of paper	AOX 1.5 kg/t of paper (immediate 30 08 2005) AOX 1.0 kg/t of paper (by 01 03 2008)	Implemented Elemental Chlorine Free (ECF) bleaching with Chlorine Dioxide and Hydrogen Peroxide & Oxygen Delignification System, which keeps the AOX level under control. In our final treated effluent, the present AOX level is less than 0.2 kg /t of paper (analysis report enclosed) Status: Complied.
2	Installation of Lime Kiln	Within 4 years (by 2007)	Installed Rotary Lime Mud Reburning Kiln capable of firing furnace oil, bio-gas (methane), non-condensable gases (mercaptans) etc.
3	Waste Water Discharge	Less than 140 cu.m per ton of paper within 2 years (by 2005) Less than 120 cu.m per ton of paper in 4 years for units installed before 1992 (by 2007) Less than 100 cu.m per ton of paper for units installed after 1992	Industry treated wastewater discharge is less than 40 cu.m per ton of paper by implementation of various effective in plant water conservation measures and recycling a significant portion of the waste water within the mill. Status: Complied.
4	Odour Control by burning the reduced sulphur emissions in the boiler/ lime kiln.	Installation of odour control system in 4 years (by 2007)	Installed Rapid Displacement Heating (RDH) system of cooking in RDH Wood Pulp Mill Installation of Free Flow Falling Film Type evaporation with odor control system . Installation of new high solids firing chemical recovery boiler with increased thermal efficiency and without direct contact evaporation of black liquor, thereby reducing the demand on fossil fuels and reducing the emission of malodorous gases.



S.No	Particulars	Implementation Schedule	Status
5	Utilisation of treated effluent for irrigation	Utilisation of treated effluent for irrigation wherever possible	Our treated effluent is being utilised for irrigation in about 2140 acres of dry and barren lands for cultivation of Sugar Cane and other crops. Status: complied
6	Colour removal from the effluent	Indian Paper Manufacturers Association to take up project with Central Pulp and Paper Research Institute (CPPRI), Saharanpur	<p>The colour in the final effluent is reduced to the minimum by adoption of various cleaner technologies, at source and recycling.</p> <p>Our treated effluent is discharged on land for irrigation, where the colour in the treated effluent due to lignin (naturally occurring organic compound) which is removed by adsorption on soil and degradation by the soil micro-organisms.</p> <p>The treated effluent percolating from the fields, after being used for irrigation, is void of colour and rich in dissolved Oxygen, since the soil acts as a good colour removing media with particular reference to the sandy loam soil available in the neighbourhood of the mill.</p>




TEST REPORT

Customer's Address	Seshasayee Paper and Boards Limited, Pallipalayam, Namakkal District, ERODE- 638007, Tamilnadu, India	Report No	23/ACIRD/008
		Date	30.08.2023
		PI No & Date	E00801 dated 25.08.2023
		Party's Ref	Letter on dated 12.08.2023
Sample Description	Kind Attn: Dr. P. Marimuthu, Head (R&D/PC/QAD)	Date of Receipt	25.08.2023
	Effluent sample(s) submitted by customer	Date of Start	26.08.2023
		Date of Completion	30.08.2023
		No. of Sample(s)	1

TEST RESULTS

S No	Sample ID	Test Parameter(s)	Unit	Result	Test Method
1	Final treated effluent on dated 11.08.2023; Ref. No.: SPB/EFF/58/9026/Dt. 12.08.2023	Adsorbable Organic Halogen (AOX)	mg/L	3.79	ISO:9562

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


(Dr. Anoop Kumar Verma)
Authorized Signatory

$$\frac{20116 \times 3.79}{1000} = 0.172 \text{ kg/E}$$

AAAS

This report contains ONE page(s) only

Note 1

The above results refer only to the tested sample(s) and applicable parameters submitted by customer. Endorsement of products is neither inferred nor implied. Samples will be destroyed after one month from the date of issue of test report unless otherwise specified. The report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without special permission in writing. Should any representation of contents of the test report is required, please contact the authorized signatory of the test report within 15 days of the issue of the report. For feedback, please attach this. Please fill the same and return to the authorized signatory so that we can improve upon our services.