



**SEIL Energy India Limited**  
(Formerly Sembcorp Energy India Limited)  
CIN: U40103HR2008PLC095648  
Regd. Office: Building 7A, Level 5,  
DLF Cyber City, Gurugram – 122002,  
Haryana, India  
Tel: (91) 124 6846700/701,  
Fax: (91) 124 6846710  
Email: cs@seilenergy.com  
Website: www.seilenergy.com

SEIL P1/APPCB/BZA/2024/003  
21<sup>st</sup> June 2024

To  
The Member Secretary,  
Andhra Pradesh Pollution Control Board,  
Paryavaran Bhavan, APIIC Colony Road,  
Gurunanak Colony, Autonagar,  
Vijayawada– 520007.

**Sub: Submission of Half Yearly CTO Compliance Report of SEIL Energy India Limited Project-1 (Formerly known as Sembcorp Energy India Limited) for the period October 2023 to March 2024**

**Ref: CFO issued vide order: APPCB/VJA/NLR/930/HO/CFO/2016 dated 16<sup>th</sup> November 2021, valid till 30.11.2026.**


Dear Sir,

This has reference to the above subject, we here by submit the Half Yearly compliance report for the period from October 2023 to March 2024 against the conditions stipulated under CTO issued to SEIL Energy India Limited Project-1 (Formerly known as Sembcorp Energy India Limited), Nellore.

Hope the above is in order.

Thanking you,

Yours faithfully,  
For **M/s. SEIL Energy India Limited,**

  
**Pavan Kumar Rao V**  
Head HSE - SEIL

Copy To: The Regional Officer, APPCB, Nellore



**UNIVERSAL**  
ENVIRO ASSOCIATES

SINCE 1994

Recognised by NABL and  
MoEF & CC, GOI, New Delhi.  
Certified by ISO 9001: 2015 and  
ISO 45001 : 2018

Date: 21-06-2024

To  
The Member Secretary,  
Andhra Pradesh Pollution Control Board,  
Paryavaran Bhavan, APIIC Colony Road,  
Gurunanak Colony, Autonagar,  
**Vijayawada– 520007.**

Respected Sir/Madam,

**Sub: Third Party Certificate - Half yearly compliance report on the conditions of CTO – Reg.**

**Ref: CFO No. APPCB/VJA/NLR/930/HO/CFO/2016, Dated: 16.11.2021.**

With reference to the "Consent To Operate" (CTO), issued to **M/s. SEIL Energy India Limited Project-1** (Formerly known as Sembcorp Energy India Limited), Nellore, we are herewith certifying that **M/s. SEIL Energy India Limited Project-1** has complied all the conditions imposed in CTO for the reporting period of October 2023 to March 2024.

Thanking You,

*T. Krishna*

T. KRISHNA

TECHNICAL MANAGER.

Yours Sincerely,  
For **UNIVERSAL ENVIRO ASSOCIATES,**



Copy To: The Regional Officer, APPCB, Nellore

Plot/Shed No.28, Road No.1, Phase-1, IDA Mallapur, Hyderabad - 500 076.

Ph: 040-4890 8772, 98480 16854, e-mail: uea123@gmail.com, www.universalenviro.in

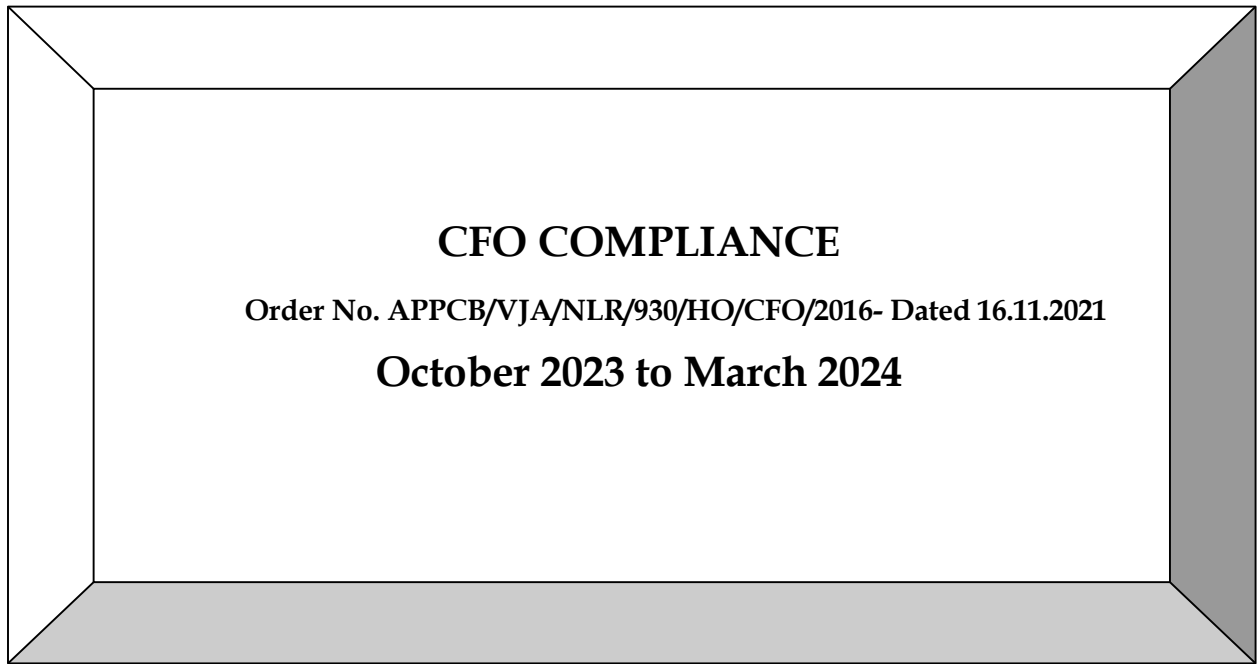
Lab & Works: # 178, Ramakrishna Nagar, Opp. IOCL, Chengicherla, Hyderabad - 500 039.

WTP, STP, ETP & ZLD (Supply, O&M) ! POLLUTION TESTING & ANALYSIS ! ENV. AUDIT ! Other Env. Services

**M/s. SEIL Energy India Limited Project-1,**  
**Painampuram & Nelaturu (V),**  
**Muthukur (M),**  
**SPSR Nellore (Dist.)**

Order No. APPCB/VJA/NLR/930/HO/CFO/2016- Dated 16.11.2021.

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Prepared By:  
Universal Enviro Associates, Hyderabad.  
Accredited by NABL (TC-6239)




Compliance against CFO Conditions		
S. NO	Condition	Compliance
SCHEDULE-A		
1.	Any up-set condition in any industrial plant/ activity of the industry, which result in, increased effluent/ emission discharge and / or violation of standards stipulated in this order shall be informed to this Board, under intimation to the Collector and District Magistrate and take immediate action to bring down the discharge/emission below the limits.	Complying. Being done proactively.
2.	The industry shall carryout analysis of waste water discharges or emissions through chimneys for the parameters mentioned in this order on quarterly basis and submit to the Board.	Complying. Environment Monitoring Reports conducted by MoEF&CC approved third party are attached as Annexure-I, II, III & IV
3.	All the rules & Regulations notified by Ministry of Law and Justice, Government of India regarding Public liability Insurance Act, 1991 shall be followed as applicable.	Complying. A copy of latest PLI is attached as Annexure-V
4.	Notwithstanding anything contained in this consent order the Board hereby reserves the right and powers to review/ revoke any and /or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board.	Noted.
5.	The industry shall ensure that there shall not be any change in the process technology, source & composition of raw materials and scope of working without prior approval from the Board.	Noted
6.	The applicant shall submit Environment Statement in Form V before 30 <sup>th</sup> September every year as per Rule no.14 of E(P) Rules 1986 & amendments thereof.	Complying. Environment Statement (Form-V) has been submitted for FY2022-23.

S. NO	Condition	Compliance
7.	The applicant should make applications through Online for renewal of Consent (Under Water and Air Acts) and Authorization under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts and detailed compliance of CFO conditions for obtaining Consent & HW Authorization of the Board.	Noted. Complying
8.	The industry shall immediately submit the revised application for consent to this Board in the event of any change in the raw material use, process employed, quantity of trade effluents & Quantity of emissions. Any change in the management shall be informed to the Board. The person authorize shall not let out the premises /lend/sell/transfer their industrial premises without obtaining prior permission of the State Pollution Control Board.	Noted. Complying
9.	Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules 1982 to Appellate authority constituted under Section 28 of the Water(Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air (Prevention and Control of Pollution) Act 1981.	Noted.

Order No. APPCB/VJA/NLR/930/HO/CFO/2016- Dated 16.11.2021.

S. NO	Condition	Compliance
10.	The industry shall be liable to pay Environmental Compensation / Other Environmental Taxes, if any environmental damage caused to the surroundings, as fixed by the Collector & District Magistrate or any other component authority as per the Rules in vogue.	Noted.
11.	The industry may explore the possibility of tapping the solar energy for their energy requirements.	Complying. SEIL P-1 has installed roof top solar panels and solar streetlights. SEIL is also exploring the suitability for small capacity solar plant.
12.	The industry should educate the workers and nearby public of possible accidents and remedial measures.	Complying. Regular trainings are being given to workers. All the measures have been taken to avoid any mishap which may lead to harm outside the plant premises (Off site) also.
<b>SCHEDULE-B</b>		
<b>Special Conditions</b>		
S. No	Condition	Compliance Status
1.	The industry shall provide FGD system to meet the SO <sub>2</sub> emission standards of 200 mg/Nm <sup>3</sup> by 31.12.2024, as per MoEF&CC, GoI notification GSR No.243 (E), dt.31.03.2021.	SEIL is committed to commission Flue Gas Desulfurization System (FGD) to meet the SO <sub>x</sub> limits as per the latest Notifications/Directions issued.
2.	The industry shall maintain water sprinklers around the ash pond area to control fugitive emissions in the surrounding area within 2 months and report compliance to RO, Nellore.	Complied. SEIL has provided <b>70 No's of</b> rotating water sprinklers around the ash pond to prevent fugitive emission. Consistent efforts being ensured to keep Pond Ash moist with thin layer of water above the surface.
		


Water Pollution																																																	
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3.	<p>The industry shall comply with the following effluent standards based on the disposal points permitted:</p> <table border="1"> <thead> <tr> <th>Outlet</th> <th>Parameter</th> <th>Limiting standards</th> </tr> </thead> <tbody> <tr> <td rowspan="10">1to3</td> <td>pH</td> <td>6.5 to 8.5</td> </tr> <tr> <td>Suspended solids</td> <td>100 mg/l</td> </tr> <tr> <td>Oil &amp; Grease</td> <td>10 mg/l</td> </tr> <tr> <td>Temperature</td> <td>Shall not exceeded 5° C above the receiving water temperature</td> </tr> <tr> <td>Biochemical oxygen demand (3 days at 27°C)</td> <td>100 mg/l</td> </tr> <tr> <td>Chemical Oxygen Demand (COD)</td> <td>250 mg/l</td> </tr> <tr> <td>Arsenic</td> <td>0.2 mg/l</td> </tr> <tr> <td>Mercury</td> <td>0.01 mg/l</td> </tr> <tr> <td>Lead</td> <td>2.0 mg/l</td> </tr> <tr> <td>Cadmium</td> <td>2.0 mg/l</td> </tr> <tr> <td rowspan="10">5 to 8</td> <td>Hexavalent Chromium</td> <td>1.0 mg/l</td> </tr> <tr> <td>Bio-assay test</td> <td>90% survival fish after 96 hours in 100% effluents</td> </tr> <tr> <td>pH</td> <td>5.5 - 9.0</td> </tr> <tr> <td>Suspended solids</td> <td>100 mg/l</td> </tr> <tr> <td>Oil &amp; Grease</td> <td>10 mg/l</td> </tr> <tr> <td>Biochemical oxygen demand (3 days at 27°C)</td> <td>100 mg/l</td> </tr> <tr> <td>Arsenic (as As)</td> <td>0.2 mg/l</td> </tr> <tr> <td>Cyanide (as CN)</td> <td>0.2 mg/l</td> </tr> <tr> <td>Bio-assay test</td> <td>90% survival fish after 96 hours in 100% effluents</td> </tr> <tr> <td>Copper (Total)</td> <td>1 mg/l</td> </tr> <tr> <td>Iron (Total)</td> <td>1 mg/l</td> </tr> </tbody> </table>	Outlet	Parameter	Limiting standards	1to3	pH	6.5 to 8.5	Suspended solids	100 mg/l	Oil & Grease	10 mg/l	Temperature	Shall not exceeded 5° C above the receiving water temperature	Biochemical oxygen demand (3 days at 27°C)	100 mg/l	Chemical Oxygen Demand (COD)	250 mg/l	Arsenic	0.2 mg/l	Mercury	0.01 mg/l	Lead	2.0 mg/l	Cadmium	2.0 mg/l	5 to 8	Hexavalent Chromium	1.0 mg/l	Bio-assay test	90% survival fish after 96 hours in 100% effluents	pH	5.5 - 9.0	Suspended solids	100 mg/l	Oil & Grease	10 mg/l	Biochemical oxygen demand (3 days at 27°C)	100 mg/l	Arsenic (as As)	0.2 mg/l	Cyanide (as CN)	0.2 mg/l	Bio-assay test	90% survival fish after 96 hours in 100% effluents	Copper (Total)	1 mg/l	Iron (Total)	1 mg/l	<p>Complying.</p> <p>Effluent Quality Monitoring Reports carried out by MoEF&amp;CC approved third Party consultant are attached as Annexure-I.</p>
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4.	<p>The source of water is sea. The following is the permitted water consumption:</p> <table border="1"> <thead> <tr> <th>S. No</th> <th>Purpose</th> <th>Quantity in KLD (for 2X660 MW)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>For cooling tower make up (saline water)</td> <td>1,98,256</td> </tr> <tr> <td rowspan="6">2.</td> <td><b>Non-cooling water - RO First pass</b></td> <td></td> </tr> <tr> <td>i) Ash handling sealing</td> <td>2240</td> </tr> <tr> <td>ii) Coal handling plant dust suppression</td> <td>4768</td> </tr> <tr> <td>iii) High Vacuum AC make up</td> <td>1660</td> </tr> <tr> <td>iv) Misc. services (for firefighting etc.)</td> <td>512</td> </tr> <tr> <td>v) RO Reject</td> <td>22224</td> </tr> <tr> <td></td> <td>vi) Clarifier blow down</td> <td>1056</td> </tr> <tr> <td></td> <td><b>RO Second pass</b></td> <td></td> </tr> <tr> <td></td> <td>i. DM Plant</td> <td>2080</td> </tr> <tr> <td></td> <td>ii. Domestic (Plant)</td> <td>50</td> </tr> <tr> <td></td> <td><b>Total</b></td> <td><b>2,32,846</b></td> </tr> </tbody> </table>	S. No	Purpose	Quantity in KLD (for 2X660 MW)	1.	For cooling tower make up (saline water)	1,98,256	2.	<b>Non-cooling water - RO First pass</b>		i) Ash handling sealing	2240	ii) Coal handling plant dust suppression	4768	iii) High Vacuum AC make up	1660	iv) Misc. services (for firefighting etc.)	512	v) RO Reject	22224		vi) Clarifier blow down	1056		<b>RO Second pass</b>			i. DM Plant	2080		ii. Domestic (Plant)	50		<b>Total</b>	<b>2,32,846</b>	<p>Complying.</p> <p>The average seawater withdrawal was 173513 KLD for FY2023-24 which is well within permissible limits.</p>													
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S. No	Condition	Compliance
5.	The industry shall maintain separate digital water meters in the intake point of sea water (i.e. at sea coast) with totalizer facility unit wise to assess daily water consumption quantity instead of cumulative water consumptions.	<p>Complying.</p> <p>Separate digital water meters with totalizer facility are provided for Cooling Tower make-up and Desalination system.</p> <p>Monthly totalizer readings are being captured jointly along with Port Conservator, Govt. of India in a separate log book.</p>
6.	The industry shall maintain flow meter preferably Electro Magnetic Flow meters with totalizers for water and effluent quantity measurements for different streams of effluents and different categories of water usage stipulated in this order.	<p>Complying.</p> <p>SEIL has provided separate flow meters with totalizers for quantity measurement:</p> <ul style="list-style-type: none"> <li>✚ Cooling Tower Makeup</li> <li>✚ Desalination water</li> <li>✚ Cooling Tower blowdown</li> <li>✚ RO Reject water</li> <li>✚ ETP outlet</li> </ul>
7.	The industry shall provide leachate collection tank to collect the leachate from garland drain of ash pond.	<p>Complying.</p> <p>The Ash Pond is provided with garland drains all around to collect leachates, if any. Separate Leachate collection tank connected to all the garland drains of Ash Pond.</p> 



S. No	Condition	Compliance						
8.	The industry shall maintain provision to collect the excess water from the ash pond into sea to control overflow of saline water from ash pond and to prevent irrigation tanks being polluted.	Complying. SEIL has ensured adequate provision at ash pond having an overflow lagoon connected to decantation well of both lagoons and the water is recirculated back to ash handling system for reuse.						
<b>Air Pollution:</b>								
S. No	Condition	Compliance						
9.	The emissions shall not contain constituents in excess of the prescribed limits mentioned below: <table border="1" data-bbox="311 1003 879 1099"> <thead> <tr> <th>Chimney No</th> <th>Parameter</th> <th>Emission standards in mg/Nm<sup>3</sup></th> </tr> </thead> <tbody> <tr> <td>1 - 2</td> <td>Particulate Matter</td> <td>50</td> </tr> </tbody> </table>	Chimney No	Parameter	Emission standards in mg/Nm <sup>3</sup>	1 - 2	Particulate Matter	50	Complying. SEIL is Complying with the Emission norms of Particulate Matter. Stack Emission Monitoring reports are attached as Annexure-II.
Chimney No	Parameter	Emission standards in mg/Nm <sup>3</sup>						
1 - 2	Particulate Matter	50						
10.	The industry shall comply with ambient air quality standards of PM <sub>10</sub> (Particulate Matter size less than 10µm)- 100 µg/m <sup>3</sup> ; PM <sub>2.5</sub> (Particulate Matter size less than 2.5 µm)- 60 µg/m <sup>3</sup> ; SO <sub>2</sub> - 80 µg/m <sup>3</sup> ; NO <sub>x</sub> - 80 µg/m <sup>3</sup> , outside the factory premises at the periphery of the industry. Standards for other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No.B-29016/20/90/PCI-I, dated 18.11.2009. Noise Levels: Day time (6 AM to 10 PM)-75 dB (A) Night time (10 PM to 6 AM) - 70 dB (A)	Complying. SEIL is complying with Ambient Air Quality parameters as prescribed in NAAQM Standards.  Ambient Air Quality Monitoring reports and Noise Monitoring reports conducted by MoEF&CC approved third party consultant are attached as Annexure-III.						


S. No	Condition	Compliance												
11.	<p>The emissions shall not contain constituents in excess of the prescribed limits mentioned below:</p> <table border="1"> <thead> <tr> <th>Chimney No</th> <th>Parameter</th> <th>Emission standards</th> </tr> </thead> <tbody> <tr> <td rowspan="4">1&amp;2</td> <td>Particular Matter</td> <td>50 mg/Nm<sup>3</sup></td> </tr> <tr> <td>Sulphur Dioxide</td> <td>*200 mg/Nm<sup>3</sup></td> </tr> <tr> <td>Oxides of Nitrogen</td> <td>*450 mg/Nm<sup>3</sup></td> </tr> <tr> <td>Mercury (Hg)</td> <td>*0.03 mg/Nm<sup>3</sup></td> </tr> </tbody> </table> <p>*The industry shall meet the SO<sub>2</sub> emission standard of 200 mg/Nm<sup>3</sup> by 31.12.2024, as per MoEF&amp;CC , GoI notification GSR No. 243 (E), dt.31.03.2021.</p>	Chimney No	Parameter	Emission standards	1&2	Particular Matter	50 mg/Nm <sup>3</sup>	Sulphur Dioxide	*200 mg/Nm <sup>3</sup>	Oxides of Nitrogen	*450 mg/Nm <sup>3</sup>	Mercury (Hg)	*0.03 mg/Nm <sup>3</sup>	<p>SEIL is Complying with the Emission norms of Particulate Matter, NO<sub>x</sub> and mercury.</p> <p>Stack Emission Monitoring Reports performed by MoEF&amp;CC approved third Party consultant are attached as Annexure-II.</p> <p>SO<sub>x</sub>: SEIL is committed to commission Flue Gas Desulfurization System (FGD) to meet the SO<sub>x</sub> limits as per the latest Notifications/Directions issued.</p>
Chimney No	Parameter	Emission standards												
1&2	Particular Matter	50 mg/Nm <sup>3</sup>												
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12.	<p>The industry shall comply with emission limits for DG sets of capacity upto 800 KW as per the Notification G.S.R.520 (E), dated 01.07.2003 under the Environment (Protection) Amendment Rules, 2003 and G.S.R.448(E), dated 12.07.2004 under the Environment (Protection) Second Amendment Rules, 2004. In case of DG sets of capacity more than 800 KW shall comply with emission limits as per the Notification G.S.R.489 (E), dated 09.07.2002 at serial no.96, under the Environment (Protection) Act, 1986.</p>	<p>Complying.</p> <p>SEIL is complying with the emission norms.</p> <p>DG stack Emissions is being monitored by MoEF&amp;CC approved third party consultant and attached as Annexure-VI</p>												

S. No	Condition	Compliance
13.	The industry shall maintain wind barriers/ wind breaking walls to the coal yards as temporary arrangement to control fugitive dust emissions on immediate surroundings.	<p>SEIL has provided wind barriers all around coal yard with 3-tier thick Conocarpus trees. SEIL has transplanted adequate matured plants around coal yard as per directions given in Task force committee meeting held on 15.10.2015.</p>  <p>In addition, SEIL has installed adequate water sprinklers with water hydrant system in coal yard to mitigate fugitive emission.</p> 

S. No	Condition	Compliance
14.	The industry shall regularly operate water sprinklers provided to control stock yard to mitigate fugitive dust on the surroundings from coal handling area.	<p>Complying.</p> <p>SEIL has installed adequate No. of water sprinklers in coal yard to mitigate fugitive emission. Water consumption is being submitted to APPCB on monthly basis.</p>
15.	The industry shall provide necessary air pollution control systems at coal transfer points in coal conveyer system from port boundary to industry premises within 3 months.	<p>Complying.</p> <p>Entire coal transportation from port boundary to industry premises is through closed pipe conveyors. All the 9 coal transfer points and coal crusher are provided with with Dry Fog Dust Suppression System (DFDS System)</p>  <p>DFDS Photo</p>

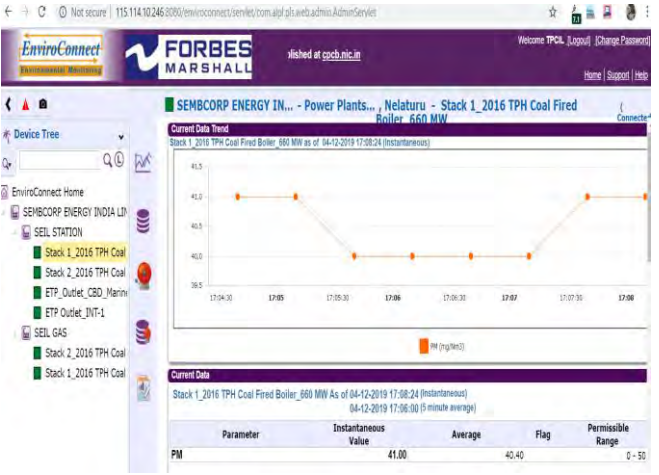
Order No. APPCB/VJA/NLR/930/HO/CFO/2016- Dated 16.11.2021.

S. No	Condition	Compliance
16.	The industry shall upgrade the air pollution control systems at coal crusher within 3 months.	Complying. An improved Dry Fog Dust Suppression System (DFDS) has been provided.
17.	The industry shall provide separate energy meters along with totalizer facility for each ESP.	Complying. SEIL has provided separate energy meters to monitor ESP Power Consumption.
18.	The industry shall comply with the MoEF&CC Notification S.O. 3305(E), dated 07.12.2015 and S.O. 682 (E), dated 07.03.2016 as applicable and report compliance to RO: Nellore.	Complying. SEIL is committed to commission Flue Gas Desulfurization System (FGD) to meet the SO <sub>x</sub> limits as per the latest Notifications/Directions issued.
<u>General</u>		
S. No	Condition	Compliance
19.	The industry shall handover the Original Consent Order dated 15.02.2016 to the RO: Nellore after receipt of this CFO order.	Complied.


S. No	Condition	Compliance												
20.	<p>The industry shall maintain the following records and the same shall be made available to the inspecting officers of the Board:</p> <ol style="list-style-type: none"> <li>Daily production details (ER-1 Central Excise Returns).</li> <li>Quantity of Effluents generated, treated, recycled/ reused and disposed.</li> <li>Log Books for pollution control systems.</li> <li>Characteristics of effluents and emissions.</li> <li>Hazardous/Non-Hazardous solid waste generated and disposed.</li> <li>Inspection book.</li> <li>Manifest copies of hazardous.</li> </ol>	<p>Complying.</p> <p>All such applicable records are being regularly maintained.</p>												
21.	<p>The industry shall dispose solid waste (Non-Haz) as follows</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Name of the Solid Waste</th> <th>Quantity</th> <th>Disposal</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Fly Ash</td> <td>0.96 Million Tons/ Annum</td> <td>To Cement / brick units</td> </tr> <tr> <td>2</td> <td>Bottom Ash</td> <td>0.24 Million Tons/ Annum</td> <td>To cement, brick manufacturing units. Unutilized bottom ash to ash pond in slurry mode</td> </tr> </tbody> </table>	S. No.	Name of the Solid Waste	Quantity	Disposal	1	Fly Ash	0.96 Million Tons/ Annum	To Cement / brick units	2	Bottom Ash	0.24 Million Tons/ Annum	To cement, brick manufacturing units. Unutilized bottom ash to ash pond in slurry mode	<p>Complying.</p> <p>Fly ash is being collected in dry form and stored in silos of 3 x 2000 cum capacity for disposal to various users.</p>  <ul style="list-style-type: none"> <li>SEIL has achieved 100% fly ash utilization by September 2019.</li> <li>Efforts are on to sustain the 100% utilization of Fly Ash.</li> <li>Bottom ash is being sent to Brick Manufacturers at free of cost.</li> </ul>
S. No.	Name of the Solid Waste	Quantity	Disposal											
1	Fly Ash	0.96 Million Tons/ Annum	To Cement / brick units											
2	Bottom Ash	0.24 Million Tons/ Annum	To cement, brick manufacturing units. Unutilized bottom ash to ash pond in slurry mode											

Order No. APPCB/VJA/NLR/930/HO/CFO/2016- Dated 16.11.2021.

S. No	Condition	Compliance
22.	The industry shall relocate the CAAQM station provided at sea intake point to suitable location in consultation with RO: Nellore.	<p>Complied.</p> <p><b>SEIL has provided 4 No's of</b> Continuous AAQM stations to cover both upwind and downwind directions for all the seasons.</p> <p>The said condition was omitted in the CFO amendment order No: APPCB/ VJA/ NLR/ 930/ HO/ CFO/ 2019 issued dated 13.07.2019</p>
23.	The industry shall operate CAAQM stations for monitoring SPM, SO <sub>2</sub> , and NOx with recording facility and maintain connectivity to PCB server.	<p>Complying.</p> <p>The Ambient Air Quality of the plant area and surroundings is being continuously monitored by <b>using 4 No's of Continuous Air Quality Monitoring CAAQMS Stations.</b> The data is being uploaded to PCB server on real-time basis.</p> 

S. No	Condition	Compliance
Water Pollution		
24.	The industry shall install online effluent and stack monitoring systems for specified parameters as per CPCB directions dated 05.02.2014 & 02.03.2015 and maintain connectivity to APPCB/CPCB websites.	<p>Complying.</p> <p>SEIL has provided Online Stack Emission Monitoring system &amp; Effluent Quality Monitoring system and same is connected with the APPCB/CPCB website.</p> 
25.	The industry shall carryout regular calibration for the on-line stack monitoring systems and CAAQM stations with tamper proof mechanism.	<p>Complying.</p> <p>Regular calibration of the CAAQMS system is being done.</p> <p>Also, the CEMS system is provided with online Remote calibration facility.</p>
26.	The industry shall dispose 100% of fly ash generated as per the Fly ash Notification.	<p>Complying.</p> <p>SEIL has attained 100% fly ash utilization by September 2019. SEIL is making all out efforts to sustain 100% utilization of fly ash and achieved the same. MoUs are signed with brick manufacturers, traders, NHAI Contractors and cement plants for ash utilization.</p> <p>Dedicated Fly Ash Management Cell has been formed to have focused efforts and approach towards 100% of fly ash utilization.</p>



S. No	Condition	Compliance
27.	The industry shall develop the thick green belt in an area of 395 acres covering all along the periphery of the industry, coal stack yard and ash pond area.	<p>Complying.</p> <p>Around 455 acres of green belt developed inside the plant and along the periphery of boundary.</p> <p>Own Nursery has been developed inside the plant premises.</p> 
28.	The industry shall submit a copy of policy of Public Liability Insurance (PLI) duly indicating the amount contributed towards Environmental Relief Fund (ERF) to the RO once in six months.	<p>Complying.</p> <p>The renewal copies of PLI are submitted to APPCB Regional office on regular basis.</p> <p>(Policy Number: 03040058050300 Policy Effective from 19/11/2023 to 18/11/2024)</p> <p>PLI Policy attached as Annexure-V</p>
29.	The industry shall comply with Board directions issued from time to time.	Noted.

Order No. APPCB/VJA/NLR/930/HO/CFO/2016- Dated 16.11.2021.

S. No	Condition	Compliance
30.	The industry shall comply with standards and directions issued by CPCB/MoEF&CC as and when notifications are issued.	Noted.
31.	The industry shall submit compliance report on the conditions mentioned in the consent order every six months i.e., on 1 <sup>st</sup> of January and July of every year to the RO/ ZO.	Complying. SEIL Project-1 (Formerly known as Sembcorp Energy India Limited) has submitted the six-monthly CFO compliance report to APPCB vide letter No: SEIL P1/ APPCB/ BZA/2023/008 dated 27.12.2023.
Schedule-C		
S. No	Condition	Compliance
1	The authorized person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.	Complying.
2.	The authorization shall be produced for inspection at the request of an officer authorized by the state Pollution Control Board.	Noted for Compliance.
3.	The person authorized shall not rent, lend, shell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.	Noted.
4.	Any authorized change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorization.	Noted

S. No	Condition	Compliance
5.	The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.	Complying. Onsite Emergency Management Plan is in place to meet any eventuality.  Periodic mock drills are being conducted.
6.	The person authorised shall comply with the provisions outlined in the Central Pollution <b>Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposed of Hazardous Waste and Penalty"</b> .	Noted for Compliance.
7.	It is duty of the authorised person to take prior permission of the pollution Control Board to close down the facility.	Noted
8.	The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.	Noted.  All the Hazardous Wastes generated are being disposed to authorized vendors through APEMC.
9.	An application for the renewal of an authorisation shall be made as laid down under these Rules.	Noted for Compliance.
10	Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.	Noted for Compliance.

Order No. APPCB/VJA/NLR/930/HO/CFO/2016- Dated 16.11.2021.

S. No	Condition	Compliance
11.	Annual returns shall be filed by June 30 <sup>th</sup> for the period ensuring 31 <sup>st</sup> March of the year.	Complying. SEIL Project-1 has submitted the Hazardous Waste Annual returns in Form-4 to APPCB vide SEIL P1/APPCB/BZA/2024/002 dated 20.06.2024.
12.	The industry shall not store hazardous waste for more than 90 days as per the Hazardous Wastes (Management & Transboundary Movement) Rules, 2016.	Complying. Disposal of Hazardous wastes being done through APEMC Authorized Waste Receivers as per HWM rules.
13.	The industry shall store Used / Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal to the manufacturers / dealers on buyback basis.	Complying. SEIL Project-1 is storing the Used / Waste Oil and Used Lead Acid Batteries under a secured Hazardous Waste Storage shed and being disposed through APEMC to APPCB Authorized Receivers.
14.	The industry shall maintain 7 copy manifest system for transportation of waste generated and a copy shall be submitted to concern Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of an emergency during transit. The transporter should carry a Transport Emergency (TREM) Card.	Complying. Hazardous wastes disposal is being done through APEMC online portal to authorized waste Receivers by following Manifest system as per HWM rules, 2016.  Hazardous Waste Manifests are being submitted to RO, APPCB.  TREM card is being issued to transporters during transportation.

15.	The industry shall maintain proper records for Hazardous and Other Wastes stated in Authorisation in Form-3 i.e., quantity of Incinerable waste, land disposal waste, recyclable waste etc., and file annual returns in Form- 4 as per Rule 20(2) of the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.	Complying. SEIL Project-1 is maintaining Hazardous waste records in Form-3. SEIL Project-1 has submitted the Hazardous Waste Annual returns in Form- 4 to APPCB.
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# SPECTRA ENVIROTECH PVT LTD

Accredited by MoEF & Accredited by NABL (TC-9903)

Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ANNEXURE-I

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant)  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline: Chemical**

**Group: Water**

**Product: ETP OUTLET (Treated Effluent)**

**Date of Monitoring: 23.11.2023**

**Sample Collected By: Ganesh**

**Sample Registration Date: 24.11.2023**

**Analysis Starting Date: 24.11.2023**

**Analysis Completed Date: 30.11.2023**

**Issue Date: 01.12.2023**

**Lab Ref: SEPL/ES/SEILEILP/11-23/0002**

## TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARD
1.	pH	IS:3025(Part-11)1983	--	7.2	5.5-9.0
2.	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	435	2100
3.	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	67	200
4.	Chemical Oxygen Demand	IS:3025(Part-58)-1986	mg/l	43	250
5.	Biochemical Oxygen Demand (5 days at 20°C)	IS:3025(Part-44)-1993	mg/l	38	100
6.	Oil & Grease	IS:3025(Part-39)-1991	mg/l	<1.0	10

Note: IS- Indian Standard

K.S.Laj  
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Managing Director

**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline: Chemical**

**Group: Water**

**Product: ETP OUTLET (Treated Effluent)**

**Date of Monitoring: 20.02.2024**

**Sample Collected By: Ganesh**

**Sample Registration Date: 21.02.2024**

**Analysis Starting Date: 21.02.2024**

**Analysis Completed Date: 27.02.2024**

**Issue Date: 27.02.2024**

**Lab Ref: SEPL/ES/SEILEILP/02-24/0002**

## TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARD
1.	pH	IS:3025(Part-11)1983	--	7.34	5.5-9.0
2.	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	442	2100
3.	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	48	200
4.	Chemical Oxygen Demand	IS:3025(Part-58)-1986	mg/l	56	250
5.	Biochemical Oxygen Demand (5 days at 20°C)	IS:3025(Part-44)-1993	mg/l	31	100
6.	Oil & Grease	IS:3025(Part-39)-1991	mg/l	<1.0	10

Note: IS- Indian Standard

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## TEST REPORT

ISSUED TO: <b>M/s. SEIL ENERGY INDIA LIMITED PROJECT-1</b> (2x660 MW Coal Based Thermal Power Plant), Near Pynampuram / Nelaturu (V), Muthukur (M), SPSR Nellore (Dist.) -524344.	
<b>Discipline: Chemical</b> <b>Group: Water</b> <b>Product: Marine Outfall Water</b> <b>Date of Sampling: 23.11.2023</b> <b>Sample Collected By: Ganesh</b>	<b>Sample Registration Date: 24.11.2023</b> <b>Analysis Starting Date: 24.11.2023</b> <b>Analysis Completed Date: 30.11.2023</b> <b>Issue Date: 01.12.2023</b> <b>Lab Ref: SEPL/ES/SEILEILP/11-23/0001</b>

## TEST RESULT

S. NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1	pH	IS:3025(Part-11)1983	--	7.1	6.5-8.5
2	Temperature Intake	--	°C	27.8	Shall not exceed 5°C above the Receiving temperature
3	Temperature Out Fall	--	°C	30.2	
4	Electric Conductivity	IS: 3025:1964	µs/cm	28,258	--
5	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	19,658	--
6	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	71	100
7	Chemical Oxygen Demand	IS:3025(Part-58)-2006	mg/l	62	250
8	Biochemical Oxygen Demand (3 days at 27°C)	IS:3025(Part-44)-1993	mg/l	38	100
9	Oil & Grease	IS:3025(Part-39)-1991	mg/l	<1.0	10
10	Total Hardness as CaCO <sub>3</sub>	IS:3025(Part-21)-2012	mg/l	4,352	--
11	Total Alkalinity as CaCO <sub>3</sub>	IS:3025(Part-23)-2012	mg/l	763	--
12	P- Alkalinity as CaCO <sub>3</sub>	IS:3025(Part-13)-1964	mg/l	Nil	--
13	Turbidity	IS:3025(Part-10)-2012	NTU	2.7	--
14	Calcium as Ca	IS:3025(Part-40)-2012	mg/l	1,323	--
15	Magnesium as Mg	IS:3025(Part-46)-2012	mg/l	232	--
16	Sodium as Na	IS:3025(Part-45)1993	mg/l	667	--

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S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
17	Potassium as K	IS:3025(Part-45)1993	mg/l	357	--
18	Chloride as Cl	IS:3025(Part-32)-2012	mg/l	7,127	--
19	Sulphates as SO <sub>4</sub>	IS:3025(Part-24)-2012	mg/l	765	--
20	Nitrates as NO <sub>3</sub>	IS:3025(Part-34)-2012	mg/l	39.4	--
21	Carbonates as CO <sub>3</sub>	IS:3025(Part-51)-2017	mg/l	Nil	--
22	Bio Carbonates as HCO <sub>3</sub>	IS:3025(Part-51)-2017	mg/l	547	--
23	Iron as Fe	IS:3025(Part-53)-2012	mg/l	1.8	--
24	Flouride as F	IS:3025(Part-60)-2012	mg/l	1.3	--
25	Copper as Cu	IS:3025(Part-42)-2012	mg/l	0.27	--
26	Manganese as Mn	IS:3025(Part-59)-2012	mg/l	0.36	--
27	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	IS:3025(Part-43)-2012	mg/l	<0.005	--
28	Cadmium as Cd	IS:3025(Part-41)-2012	mg/l	<0.005	2.0
29	Mercury as Hg	IS:3025(Part-48)-2012	mg/l	<0.001	0.01
30	Selenium as Se	IS:3025(Part-56)-2012	mg/l	<0.005	--
31	Arsenic as As	IS:3025(Part-37)-2012	mg/l	<0.01	0.2
32	Cyanide as CN	IS:3025(Part-27)-2012	mg/l	<0.01	--
33	Lead as Pb	IS:3025(Part-47)-2012	mg/l	<0.01	2.0
34	Zinc as Zn	IS:3025(Part-49)-2012	mg/l	0.27	--
35	Hexavalent Chromium as Cr <sup>+6</sup>	IS:3025(Part-38)-1964	mg/l	<0.001	1.0
36	Boron as B	IS:3025(Part-57)-2012	mg/l	0.003	--
37	Silica as SiO <sub>2</sub>	IS:3025(Part-35)-2019	mg/l	24.4	--

Note: IS- Indian Standard

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## TEST REPORT

ISSUED TO: <b>M/s. SEIL ENERGY INDIA LIMITED PROJECT-1</b> (2x660 MW Coal Based Thermal Power Plant), Near Pynampuram / Nelaturu (V), Muthukur (M), SPSR Nellore (Dist.) -524344.	
<b>Discipline: Chemical</b> <b>Group: Water</b> <b>Product: Marine Outfall Water</b> <b>Date of Sampling: 23.11.2023</b> <b>Sample Collected By: Ganesh</b>	<b>Sample Registration Date: 24.11.2023</b> <b>Analysis Starting Date: 24.11.2023</b> <b>Analysis Completed Date: 30.11.2023</b> <b>Issue Date: 01.12.2023</b> <b>Lab Ref: SEPL/ES/SEILEILP/11-23/0002</b>

## TEST RESULT

TEST SPECIES	SOURCE OF ORGANISM	LENGTH & WEIGHT (For Fish)	REMARKS
Zebra Fish	Through vendors	1. Length 4.3cm 2. Weight 3.2gm	1. Fish were not fed <u>Yes</u> 2. Temperature range in aquarium 25°C

## REFERENCE TEST DATA

START DATE: 24.11.2023 END DATE: 30.11.2023
<b>COMMENTS:</b>
The test species was undergone toxicity for about 96 Hrs. RESULT: 97% survival of fish was noticed

of Testing: As per M. L. Jackson & FAO –Food and Agriculture Organization

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<b>Discipline: Chemical</b> <b>Group: Water</b> <b>Product: Marine Outfall Water</b> <b>Date of Sampling: 20.02.2024</b> <b>Sample Collected By: Ganesh</b>	<b>Sample Registration Date: 21.02.2024</b> <b>Analysis Starting Date: 21.02.2024</b> <b>Analysis Completed Date: 27.02.2024</b> <b>Issue Date: 27.02.2024</b> <b>Lab Ref: SEPL/ES/SEILEILP/02-24/0001</b>

## TEST RESULT

S. NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1	pH	IS:3025(Part-11)1983	--	6.9	6.5-8.5
2	Temperature Intake	--	°C	28.3	Shall not exceed 5°C above the Receiving temperature
3	Temperature Out Fall	--	°C	30.7	
4	Electric Conductivity	IS: 3025:1964	µs/cm	28,266	--
5	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	19,665	--
6	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	75	100
7	Chemical Oxygen Demand	IS:3025(Part-58)-2006	mg/l	66	250
8	Biochemical Oxygen Demand (3 days at 27°C)	IS:3025(Part-44)-1993	mg/l	32	100
9	Oil & Grease	IS:3025(Part-39)-1991	mg/l	<1.0	10
10	Total Hardness as CaCO <sub>3</sub>	IS:3025(Part-21)-2012	mg/l	3,365	--
11	Total Alkalinity as CaCO <sub>3</sub>	IS:3025(Part-23)-2012	mg/l	469	--
12	P- Alkalinity as CaCO <sub>3</sub>	IS:3025(Part-13)-1964	mg/l	Nil	--
13	Turbidity	IS:3025(Part-10)-2012	NTU	2.9	--
14	Calcium as Ca	IS:3025(Part-40)-2012	mg/l	1,334	--
15	Magnesium as Mg	IS:3025(Part-46)-2012	mg/l	239	--
16	Sodium as Na	IS:3025(Part-45)1993	mg/l	671	--

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S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
17	Potassium as K	IS:3025(Part-45)1993	mg/l	366	--
18	Chloride as Cl	IS:3025(Part-32)-2012	mg/l	8,133	--
19	Sulphates as SO <sub>4</sub>	IS:3025(Part-24)-2012	mg/l	772	--
20	Nitrates as NO <sub>3</sub>	IS:3025(Part-34)-2012	mg/l	42.3	--
21	Carbonates as CO <sub>3</sub>	IS:3025(Part-51)-2017	mg/l	Nil	--
22	Bio Carbonates as HCO <sub>3</sub>	IS:3025(Part-51)-2017	mg/l	556	--
23	Iron as Fe	IS:3025(Part-53)-2012	mg/l	1.5	--
24	Flouride as F	IS:3025(Part-60)-2012	mg/l	2.4	--
25	Copper as Cu	IS:3025(Part-42)-2012	mg/l	0.35	--
26	Manganese as Mn	IS:3025(Part-59)-2012	mg/l	0.43	--
27	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	IS:3025(Part-43)-2012	mg/l	<0.005	--
28	Cadmium as Cd	IS:3025(Part-41)-2012	mg/l	<0.005	2.0
29	Mercury as Hg	IS:3025(Part-48)-2012	mg/l	<0.001	0.01
30	Selenium as Se	IS:3025(Part-56)-2012	mg/l	<0.005	--
31	Arsenic as As	IS:3025(Part-37)-2012	mg/l	<0.01	0.2
32	Cyanide as CN	IS:3025(Part-27)-2012	mg/l	<0.01	--
33	Lead as Pb	IS:3025(Part-47)-2012	mg/l	<0.01	2.0
34	Zinc as Zn	IS:3025(Part-49)-2012	mg/l	0.29	--
35	Hexavalent Chromium as Cr <sup>+6</sup>	IS:3025(Part-38)-1964	mg/l	<0.001	1.0
36	Boron as B	IS:3025(Part-57)-2012	mg/l	0.005	--
37	Silica as SiO <sub>2</sub>	IS:3025(Part-35)-2019	mg/l	25.7	--

Note: IS- Indian Standard

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## TEST REPORT

ISSUED TO: <b>M/s. SEIL ENERGY INDIA LIMITED PROJECT-1</b> (2x660 MW Coal Based Thermal Power Plant), Near Pynampuram / Nelaturu (V), Muthukur (M), SPSR Nellore (Dist.) -524344.	
<b>Discipline: Chemical</b> <b>Group: Water</b> <b>Product: Marine Outfall Water</b> <b>Date of Sampling: 20.02.2024</b> <b>Sample Collected By: Ganesh</b>	<b>Sample Registration Date: 21.02.2024</b> <b>Analysis Starting Date: 21.02.2024</b> <b>Analysis Completed Date: 27.02.2024</b> <b>Issue Date: 27.02.2024</b> <b>Lab Ref: SEPL/ES/SEILEILP/02-24/0002</b>

## TEST RESULT

TEST SPECIES	SOURCE OF ORGANISM	LENGTH & WEIGHT (For Fish)	REMARKS
Zebra Fish	Through vendors	1. Length 4.3 cm 2. Weight 3.2 gm	1. Fish were not fed <u>Yes</u> 2. Temperature range in aquarium 25°C

## REFERENCE TEST DATA

START DATE: 21.02.2024 END DATE: 27.02.2024
<b>COMMENTS:</b>
The test species undergone toxicity for about 96 Hrs. RESULT: 97% survival of fish was noticed

**Testing:** As per M.L.Jackson & FAO –Food and Agriculture Organization

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**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035  
**Web :** www.spectraenviro.com | **E-mail:** sepl.sjn@gmail.com | info@spectraenviro.com  
**Cell:** 80199 55222, 111 | **BRANCHES:** VIJAYAWADA | HYDERABAD





# SPECTRA ENVIROTECH PVT LTD

Accredited by MoEF & Accredited by NABL (TC-9903)

Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline: Chemical**

**Group: Water**

**Product: STP OUTLET**

**Date of Monitoring: 23.11.2023**

**Sample Collected By: Ganesh**

**Sample Registration Date: 24.11.2023**

**Analysis Starting Date: 24.11.2023**

**Analysis Completed Date: 30.11.2023**

**Issue Date: 01.12.2023**

**Lab Ref: SEPL/ES/SEILEILP/11-23/0002**

## TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARD
1.	pH	IS:3025(Part-11)-1983	--	7.6	5.5-9.0
2.	Total Dissolved Solids	IS:3025(Part-15)-1984	mg/l	186	<2100
3.	Total Suspended Solids	IS:3025(Part-15)-1984	mg/l	42	<200
4.	Chemical Oxygen Demand	IS:3025(Part-58)-1986	mg/l	47	<250
5.	Biochemical Oxygen Demand (5 days at 20°C)	IS:3025(Part-44)-1993	mg/l	23	<100
6.	Oil & Grease	IS:3025(Part-39)-1991	mg/l	<1.0	<10

**Note: IS-Indian Standard**

K.S.Lag  
Verified by



DA  
Authorized by  
Managing Director

**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

**Web :** www.spectraenviro.com | **E-mail:** sepl.sjn@gmail.com | info@spectraenviro.com

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline: Chemical**

**Group: Water**

**Product: STP OUTLET**

**Date of Monitoring: 20.02.2024**

**Sample Collected By: Ganesh**

**Sample Registration Date: 21.02.2024**

**Analysis Starting Date: 21.02.2024**

**Analysis Completed Date: 27.02.2024**

**Issue Date: 27.02.2024**

**Lab Ref: SEPL/ES/SEILEILP/02-24/0002**

## TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARD
1.	pH	IS:3025(Part-11)1983	--	7.7	5.5-9.0
2.	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	156	<2100
3.	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	45	<200
4.	Chemical Oxygen Demand	IS:3025(Part-58)-1986	mg/l	58	<250
5.	Biochemical Oxygen Demand (5 days at 20°C)	IS:3025(Part-44)-1993	mg/l	20	<100
6.	Oil & Grease	IS:3025(Part-39)-1991	mg/l	<1.0	<10

**Note: IS-Indian Standard**

K.S.Lag  
Verified by



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Authorized by  
Managing Director

**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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# SPECTRA ENVIROTECH PVT LTD

Accredited by MoEF & Accredited by NABL (TC-9903)

Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

**ANNEXURE-II**

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Group: Atmospheric Pollution**

**Product: Stack Emission Monitoring- November 2023**

**Location: Unit#1 (Stack Attached to 660 MW Boiler)**

**Date of Monitoring: 10.11.2023**

**Sample Registration Date: 11.11.2023**

**Analysis Starting Date: 11.11.2023**

**Analysis Completed Date: 17.11.2023**

**Issue Date: 18.11.2023**

**Lab Ref: SEPL/ES/SEILEILP/11-23/0001**

## TEST RESULT

1. Time of Sampling ---- : 10:30 Hrs. to 11:30 Hrs.
2. Time Duration : 00:60 Hrs.
3. Ambient Temperature (°C) : 33.8
4. Flue gas Temperature (°C) : 144
5. Velocity of the flue gas (m/sec) : 24.84
6. C/s area of the duct (m<sup>3</sup>) : 33.20
7. Stack Diameter (m) : 6.5
8. Flue gas Flow Rate (Nm<sup>3</sup>/Hr) : 2968876

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1.	Particulate Matter (PM)	IS 11255 (part-1)1985	mg/Nm <sup>3</sup>	<50	28.4
2.	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (part-2)1985	mg/Nm <sup>3</sup>	-	674
3.	Oxides of Nitrogen (NO <sub>x</sub> )	IS 11255 (part-7)1985	mg/Nm <sup>3</sup>	450	262
4.	Carbon Monoxide (CO)	NSPS Test Method-10	ppm	-	1.3
5.	Mercury as Hg	State of California Air Resources Board, Method10A	mg/Nm <sup>3</sup>	0.03	<0.01

### Instrument Details:

Instrument : Stack Monitoring Kit  
Make : Sree Scientific Equipment  
Model / SI No : Sem-150/220206  
Calibration Due :28.02.2024

K.S.Laj  
Verified by



DA  
Authorized by  
Managing Director

**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

**Web :** www.spectraenviro.com | **E-mail:** sepl.sjn@gmail.com | info@spectraenviro.com

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# SPECTRA ENVIROTECH PVT LTD

Accredited by MoEF & Accredited by NABL (TC-9903)

Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Group: Atmospheric Pollution**

**Product: Stack Emission Monitoring- November 2023**

**Location: Unit#2 (Stack Attached to 660 MW Boiler)**

**Date of Monitoring: 10.11.2023**

**Sample Registration Date: 11.11.2023**

**Analysis Starting Date: 11.11.2023**

**Analysis Completed Date: 17.11.2023**

**Issue Date: 18.11.2023**

**Lab Ref: SEPL/ES/SEILEILP/11-23/0002**

## TEST RESULT

1. Time of Sampling ---- : 11:40 Hrs. to 12:30 Hrs.
2. Time Duration : 00:50 Hrs.
3. Ambient Temperature (°C) : 33.6
4. Flue gas Temperature (°C) : 145
5. Velocity of the flue gas (m/sec) : 24.56
6. C/s area of the duct (m<sup>3</sup>) : 33.20
7. Stack Diameter (m) : 6.5
8. Flue gas Flow Rate (Nm<sup>3</sup>/Hr) : 2935411

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1.	Particulate Matter (PM)	IS 11255 (part-1)1985	mg/Nm <sup>3</sup>	<50	25.7
2.	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (part-2)1985	mg/Nm <sup>3</sup>	-	741
3.	Oxides of Nitrogen (NO <sub>x</sub> )	IS 11255 (part-7)1985	mg/Nm <sup>3</sup>	450	326
4.	Carbon Monoxide (CO)	NSPS Test Method-10	ppm	-	1.3
5.	Mercury as Hg	State of California Air Resources Board, Method10A	mg/Nm <sup>3</sup>	0.03	<0.01

### Instrument Details:

Instrument : Stack Monitoring Kit  
Make : Sree Scientific Equipment  
Model / SI No : Sem-150/220206  
Calibration Due : 28.02.2024

K.S.Laj  
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**LABORATORY** : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

**Web** : www.spectraenviro.com | **E-mail**: sepl.sjn@gmail.com | info@spectraenviro.com

**Cell**: 80199 55222, 111 | **BRANCHES**: VIJAYAWADA | HYDERABAD





# SPECTRA ENVIROTECH PVT LTD

Accredited by MoEF & Accredited by NABL (TC-9903)

Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur(M),  
SPSR Nellore (Dist.) -524344.

**Group: Atmospheric Pollution**

**Product: Stack Emission Monitoring- February 2024**

**Location: Unit#1 (Stack Attached to 660 MW Boiler)**

**Date of Monitoring: 20.02.2024**

**Sample Registration Date: 21.02.2024**

**Analysis Starting Date: 21.02.2024**

**Analysis Completed Date: 27.02.2024**

**Issue Date: 27.02.2024**

**Lab Ref: SEPL/ES/SEILEILP/02-24/0001**

## TEST RESULT

1. Time of Sampling ---- : 10:30 Hrs. to 11:30 Hrs.
2. Time Duration : 00:60 Hrs.
3. Ambient Temperature (°C) : 34.1
4. Flue gas Temperature (°C) : 148
5. Velocity of the flue gas (m/sec) : 25.92
6. C/s area of the duct (m<sup>3</sup>) : 33.20
7. Stack Diameter (m) : 6.5
8. Flue gas Flow Rate (Nm<sup>3</sup>/Hr) : 2978438.4

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1.	Particulate Matter (PM)	IS 11255 (part-1)1985	mg/Nm <sup>3</sup>	<50	31.2
2.	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (part-2)1985	mg/Nm <sup>3</sup>	-	681
3.	Oxides of Nitrogen (NO <sub>x</sub> )	IS 11255 (part-7)1985	mg/Nm <sup>3</sup>	450	269
4.	Carbon Monoxide (CO)	NSPS Test Method-10	ppm	-	1.5
5.	Mercury as Hg	State of California Air Resources Board, Method10A	mg/Nm <sup>3</sup>	0.03	<0.01

### Instrument Details:

Instrument : Stack Monitoring Kit  
Make : Sree Scientific Equipment  
Model / SI No : Sem-150/220206  
Calibration Due : 27.02.2025

K.S.Laj  
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**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur(M),  
SPSR Nellore (Dist.) -524344.

**Group: Atmospheric Pollution**

**Product: Stack Emission Monitoring- February 2024**

**Location: Unit#2 (Stack Attached to 660 MW Boiler)**

**Date of Monitoring: 20.02.2024**

**Sample Registration Date: 21.02.2024**

**Analysis Starting Date: 21.02.2024**

**Analysis Completed Date: 27.02.2024**

**Issue Date: 27.02.2024**

**Lab Ref: SEPL/ES/SEILEILP/02-24/0002**

## TEST RESULT

1. Time of Sampling ---- : 11:40 Hrs. to 12:30 Hrs.
2. Time Duration : 00:50 Hrs.
3. Ambient Temperature (°C) : 34.1
4. Flue gas Temperature (°C) : 149
5. Velocity of the flue gas (m/sec) : 25.69
6. C/s area of the duct (m<sup>3</sup>) : 33.20
7. Stack Diameter (m) : 6.5
8. Flue gas Flow Rate (Nm<sup>3</sup>/Hr) : 2950948.8

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1.	Particulate Matter (PM)	IS 11255 (part-1)1985	mg/Nm <sup>3</sup>	<50	26.3
2.	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (part-2)1985	mg/Nm <sup>3</sup>	-	749
3.	Oxides of Nitrogen (NO <sub>x</sub> )	IS 11255 (part-7)1985	mg/Nm <sup>3</sup>	450	335
4.	Carbon Monoxide (CO)	NSPS Test Method-10	ppm	-	1.5
5.	Mercury as Hg	State of California Air Resources Board, Method10A	mg/Nm <sup>3</sup>	0.03	<0.01

### Instrument Details:

Instrument : Stack Monitoring Kit  
Make : Sree Scientific Equipment  
Model / SI No : Sem-150/220206  
Calibration Due : 27.02.2025

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**LABORATORY** : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

**Web** : www.spectraenviro.com | **E-mail**: sepl.sjn@gmail.com | info@spectraenviro.com

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## TEST REPORT

ANNEXURE-III

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – October 2023

Location-1: Fire Station (Plant)

Sample Registration Date: 01.11.2023

Issue Date: 07.11.2023

Lab Ref: SEPL/ES/SEILEILP/10-23/0001

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
02.10.2023	39.5	21.3	7.1	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
03.10.2023	41.3	38.9	7.9	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.10.2023	37.4	22.2	8.3	7.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
10.10.2023	25.6	21.1	6.8	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.10.2023	32.1	24.6	7.4	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
17.10.2023	38.9	31.7	7.2	7.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.10.2023	43.2	36.4	7.5	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
24.10.2023	24.7	33.8	7.3	6.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
30.10.2023	36.8	29.2	7.8	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
31.10.2023	45.4	35.7	6.7	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	24.7	21.1	6.7	6.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	45.4	38.9	8.3	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	36.5	29.5	7.4	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	45.0	38.5	8.2	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

Instrument : Fine Particulate sampler  
Model/SI NO : AAQ510 / 220830  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2024

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : APM-460 NL/381-DTG-2009  
Make : Envirotech  
Calibration Due : 28.02.2024

K.S. Raj  
Verified by



DA  
Authorized by  
Managing Director

LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035  
Web : www.spectraenviro.com | E-mail: sepl.sjn@gmail.com | info@spectraenviro.com  
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# SPECTRA ENVIROTECH PVT LTD

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram/ Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.)-524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring –October 2023

Location-2: Pattapupalem village

Sample Registration Date: 01.11.2023

Issue Date: 07.11.2023

Lab Ref: SEPL/ES/SEILEILP/10-23/0002

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
02.10.2023	45.9	36.5	7.3	6.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
03.10.2023	35.6	33.4	8.5	6.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.10.2023	39.7	27.3	7.9	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
10.10.2023	21.3	18.7	7.2	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.10.2023	34.5	31.3	8.1	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
17.10.2023	36.8	33.2	7.5	6.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.10.2023	44.1	27.1	8.6	6.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
24.10.2023	31.2	35.8	6.4	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
30.10.2023	35.4	25.4	7.5	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
31.10.2023	32.5	29.7	6.8	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	<b>21.3</b>	<b>18.7</b>	<b>6.4</b>	<b>6.4</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	<b>45.9</b>	<b>36.5</b>	<b>8.6</b>	<b>8.7</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	<b>35.7</b>	<b>29.8</b>	<b>7.6</b>	<b>7.3</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	<b>45.6</b>	<b>27.2</b>	<b>15.8</b>	<b>8.6</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

Instrument : Fine Particulate sampler  
Model/SI NO : AAQ510 / 220831  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2024

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : AAQM-60/220518  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2024

K.S.Laj  
Verified by



DA  
Authorized by  
Managing Director

LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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Cell: 80199 55222, 111 | BRANCHES: VIJAYAWADA | HYDERABAD





# SPECTRA ENVIROTECH PVT LTD

Accredited by MoEF & Accredited by NABL (TC-9903)

Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),

Near Pynampuram/ Nelaturu (V), Muthukur (M),

SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring –October 2023

Location-3: Painampuram Village

Sample Registration Date: 01.11.2023

Issue Date: 07.11.2023

Lab Ref: SEPL/ES/SEILEILP/10-23/0003

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
02.10.2023	41.9	36.5	6.7	6.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
03.10.2023	35.5	31.7	8.6	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.10.2023	39.7	34.6	7.4	6.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
10.10.2023	25.2	22.4	8.8	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.10.2023	34.4	33.8	7.2	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
17.10.2023	43.3	35.9	6.9	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.10.2023	32.8	31.3	7.7	6.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
24.10.2023	47.6	41.2	7.5	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
30.10.2023	36.4	32.6	7.3	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
31.10.2023	42.1	37.1	6.5	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	<b>25.2</b>	<b>22.4</b>	<b>6.5</b>	<b>6.4</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	<b>47.6</b>	<b>41.2</b>	<b>8.8</b>	<b>8.5</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	<b>37.9</b>	<b>33.7</b>	<b>7.5</b>	<b>7.3</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	<b>46.8</b>	<b>40.5</b>	<b>8.8</b>	<b>8.4</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

Instrument : Fine Particulate sampler  
Model/SI NO : AAQ510 / 220932  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2024

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : APM-460 NL/503-DTG-2008  
Make : Envirotech  
Calibration Due : 28.02.2024

K.S.Laj  
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DA  
Authorized by  
Managing Director

LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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# SPECTRA ENVIROTECH PVT LTD

Accredited by MoEF & Accredited by NABL (TC-9903)

Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram/ Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring –October 2023

Location-4: Nelaturu Village

Sample Registration Date: 01.11.2023

Issue Date: 07.11.2023

Lab Ref: SEPL/ES/SEILEILP/10-23/0004

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
02.10.2023	39.5	36.6	7.9	6.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
03.10.2023	44.2	41.4	8.1	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.10.2023	35.9	24.9	7.6	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
10.10.2023	41.4	36.7	7.7	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.10.2023	36.8	28.5	8.8	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
17.10.2023	29.7	23.8	7.1	6.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.10.2023	37.6	35.3	7.4	6.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
24.10.2023	33.3	31.4	6.3	6.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
30.10.2023	45.4	33.8	7.5	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
31.10.2023	38.2	26.5	8.3	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	29.7	23.8	6.3	6.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	45.4	41.4	8.8	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	38.2	31.9	7.7	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	45.2	40.6	8.7	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

Instrument : Fine Particulate sampler  
Model/SI NO : AAM-510 /1593 DTF2015  
Make : Envirotech  
Calibration Due : 28.02.2024

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : APQ-600 NL/220517  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2024

K.S.Laj  
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Managing Director

LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## SUMMARY OF AMBIENT AIR QUALIT OCTOBER 2023

Pollutants	Description	Unit	Fire Station (Plant)-1	Pattapupalem Village-2	Painampuram Village-3	Nelaturu Village-4
PM <sub>10</sub>	Minimum	µg/m <sup>3</sup>	24.7	21.3	25.2	29.7
	Maximum		45.4	45.9	47.6	45.4
	Average		36.49	35.7	37.9	38.2
	98 Percentile		45.0	45.6	46.8	45.2
PM <sub>2.5</sub>	Minimum		21.1	18.7	22.4	23.8
	Maximum		38.9	36.5	41.2	41.4
	Average		29.5	29.8	33.7	31.9
	98 Percentile		38.5	27.2	40.5	40.6
SO <sub>2</sub>	Minimum		6.7	6.4	6.5	6.3
	Maximum		8.3	8.6	8.8	8.8
	Average		7.4	7.6	7.5	7.7
	98 Percentile		8.2	15.8	8.8	8.7
NO <sub>x</sub>	Minimum		6.2	6.4	6.4	6.1
	Maximum		8.5	8.7	8.5	8.7
	Average		7.6	7.3	7.3	7.4
	98 Percentile		8.5	8.6	8.4	8.7

K.S. Jay  
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# SPECTRA ENVIROTECH PVT LTD

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram/ Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring –November 2023

Location-1: Fire Station (Plant)

Sample Registration Date: 29.12.2023

Issue Date: 03.12.2023

Lab Ref: SEPL/ES/SEILEILP/11-23/0001

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
06.11.2023	38.2	25.5	7.9	6.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
07.11.2023	27.3	23.9	7.6	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.11.2023	31.5	26.7	6.5	7.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.11.2023	25.7	21.3	8.3	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.11.2023	36.6	27.2	7.3	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.11.2023	43.1	35.4	6.8	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.11.2023	28.4	24.1	8.1	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.11.2023	34.8	23.2	7.3	6.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	<b>25.7</b>	<b>21.3</b>	<b>6.5</b>	<b>6.6</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	<b>43.1</b>	<b>35.4</b>	<b>8.3</b>	<b>8.5</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	<b>33.2</b>	<b>25.9</b>	<b>7.5</b>	<b>7.4</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	<b>42.4</b>	<b>34.3</b>	<b>8.3</b>	<b>8.4</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

Instrument : Fine Particulate sampler  
Model/SI No : AAQ510 / 220830  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2024

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : APM-460 NL/381-DTG-2007  
Make : Envirotech  
Calibration Due : 28.02.2024

K.S.Laj  
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Managing Director

**LABORATORY** : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035  
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# SPECTRA ENVIROTECH PVT LTD

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

<b>ISSUED TO:</b> <b>M/s. SEIL ENERGY INDIA LIMITED PROJECT-1</b> (2x660 MW Coal Based Thermal Power Plant), Near Pynampuram/ Nelaturu (V), Muthukur (M), SPSR Nellore (Dist.) -524344.	
<b>Discipline:</b> Chemical	<b>Sample Registration Date:</b> 29.12.2023
<b>Group:</b> Atmospheric Pollution	<b>Issue Date:</b> 03.12.2023
<b>Product:</b> Ambient Air Quality Monitoring – November 2023	<b>Lab Ref:</b> SEPL/ES/SEILEILP/11-23/0002
<b>Location-2:</b> Pattapupalem Village	<b>Sample collected person details:</b> S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
06.11.2023	34.2	27.6	8.2	6.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
07.11.2023	46.7	34.7	7.1	6.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.11.2023	22.4	18.4	8.4	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.11.2023	27.6	22.1	8.2	6.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.11.2023	35.5	29.3	7.6	7.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.11.2023	42.1	36.2	7.5	6.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.11.2023	34.3	23.9	8.3	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.11.2023	39.4	35.5	6.9	7.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	22.4	18.4	6.9	6.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	46.7	36.2	8.4	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	35.3	28.5	7.8	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	46.1	25.4	7.9	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	2.0

### Instruments Details:

Instrument : Fine Particulate sampler  
Model/SI NO : AAQ510 / 220831  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2024

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : AAQM-60/220518  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2024

K.S. Jay  
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Managing Director

**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035  
**Web :** www.spectraenviro.com | **E-mail:** sepl.sjn@gmail.com | info@spectraenviro.com  
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# SPECTRA ENVIROTECH PVT LTD

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## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram/ Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – November 2023

Location-3: Painampuram Village

Sample Registration Date: 29.12.2023

Issue Date: 03.12.2023

Lab Ref: SEPL/ES/SEILEILP/11-23/0003

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
06.11.2023	24.4	18.1	6.9	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
07.11.2023	42.9	35.6	8.5	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.11.2023	27.5	21.3	6.7	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.11.2023	32.6	27.4	7.4	6.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.11.2023	38.7	24.2	8.1	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.11.2023	47.3	36.8	7.6	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.11.2023	34.1	29.1	6.5	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.11.2023	29.5	18.9	7.2	6.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	<b>24.4</b>	<b>18.1</b>	<b>6.5</b>	<b>6.6</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	<b>47.3</b>	<b>36.8</b>	<b>8.5</b>	<b>8.4</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	<b>34.6</b>	<b>26.4</b>	<b>7.4</b>	<b>7.5</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	<b>46.7</b>	<b>36.6</b>	<b>8.4</b>	<b>8.4</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

Instrument : Fine Particulate sampler  
Model/SI NO : AAQ510 / 220732  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2024

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : APM-460 NL/503-DTG-2008  
Make : Envirotech  
Calibration Due : 28.02.2024

K.S. Jay  
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Managing Director

LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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# SPECTRA ENVIROTECH PVT LTD

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## TEST REPORT

ISSUED TO: <b>M/s. SEIL ENERGY INDIA LIMITED PROJECT-1</b> (2x660 MW Coal Based Thermal Power Plant) Near Pynampuram/ Nelaturu (V), Muthukur(M), SPSR Nellore (Dist.) -524344.	
Discipline: Chemical	Sample Registration Date: 29.12.2023
Group: Atmospheric Pollution	Issue Date: 03.12.2023
Product: Ambient Air Quality Monitoring – November 2023	Lab Ref: SEPL/ES/SEILEILP/11-23/0004
Location-4: Nelaturu Village	Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
06.11.2023	25.4	21.7	7.8	6.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
07.11.2023	32.8	27.1	7.4	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.11.2023	38.1	34.4	6.4	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.11.2023	44.5	35.5	6.2	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.11.2023	36.7	29.2	7.9	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.11.2023	32.5	26.8	8.2	7.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.11.2023	28.1	23.3	6.6	6.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.11.2023	34.9	28.6	6.5	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	<b>25.4</b>	<b>21.7</b>	<b>6.2</b>	<b>6.6</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	<b>44.5</b>	<b>35.5</b>	<b>8.2</b>	<b>8.1</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	<b>34.1</b>	<b>28.3</b>	<b>7.1</b>	<b>7.3</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	<b>43.6</b>	<b>35.3</b>	<b>8.2</b>	<b>8.0</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

Instrument : Fine Particulate sampler  
Model/SI NO : AAM-510 /1593 DTF2015  
Make : Envirotech  
Calibration Due : 28.02.2024

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : APQ-600 NL/220517  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2024

K.S. Jay  
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DA  
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Managing Director

LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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# SPECTRA ENVIROTECH PVT LTD

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## SUMMARY OF AMBIENT AIR QUALITY NOVEMBER 2023

Pollutants	Description	Unit	Fire Station (Plant)-1	Pattapupalem Village-2	Painampuram Village-3	Nelaturu Village-4
PM <sub>10</sub>	Minimum	µg/m <sup>3</sup>	25.7	22.4	24.4	25.4
	Maximum		43.1	46.7	47.3	44.5
	Average		33.2	35.3	34.6	34.1
	98 Percentile		42.4	46.1	46.7	43.6
PM <sub>2.5</sub>	Minimum		21.3	18.4	18.1	21.7
	Maximum		35.4	36.2	36.8	35.5
	Average		25.9	28.5	26.4	28.3
	98 Percentile		34.3	25.4	36.6	35.3
SO <sub>2</sub>	Minimum		6.5	6.9	6.5	6.2
	Maximum		8.3	8.4	8.5	8.2
	Average		7.5	7.8	7.4	7.1
	98 Percentile		8.3	7.9	8.4	8.2
NO <sub>x</sub>	Minimum		6.6	6.2	6.6	6.6
	Maximum		8.5	8.1	8.4	8.1
	Average		7.4	7.1	7.5	7.3
	98 Percentile		8.4	8.1	8.4	8.0

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Managing Director

**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035  
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# SPECTRA ENVIROTECH PVT LTD

Accredited by MoEF & Accredited by NABL (TC-9903)

Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),

Near Pynampuram/ Nelaturu (V), Muthukur (M),

SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring –December 2023

Location-1: Fire Station (Plant)

Sample Registration Date: 27.12.2023

Issue Date: 01.01.2024

Lab Ref: SEPL/ES/SEILEILP/12-23/0001

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
04.12.2023	42.5	31.2	7.6	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
05.12.2023	35.7	28.5	7.3	6.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.12.2023	29.2	24.3	6.5	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.12.2023	31.6	29.8	8.4	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.12.2023	26.3	23.1	7.7	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.12.2023	44.2	36.7	6.2	6.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.12.2023	25.4	21.4	8.7	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.12.2023	33.1	25.9	7.1	6.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	25.4	21.4	6.2	6.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	44.2	36.7	8.7	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	33.5	27.6	7.4	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	44.0	35.9	8.7	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

Instrument : Fine Particulate sampler  
Model/SI No : AAQ510 / 220830  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2024

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : APM-460 NL/381-DTG-2007  
Make : Envirotech  
Calibration Due : 28.02.2024

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Managing Director

LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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# SPECTRA ENVIROTECH PVT LTD

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),

Near Pynampuram/ Nelaturu (V), Muthukur (M),

SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – December 2023

Location-2: Pattapupalem Village

Sample Registration Date: 27.12.2023

Issue Date: 01.01.2024

Lab Ref: SEPL/ES/SEILEILP/12-23/0002

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	µg/m <sup>3</sup>				mg/m <sup>3</sup>	µg/m <sup>3</sup>				ng/m <sup>3</sup>		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
04.12.2023	32.4	29.5	8.1	6.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
05.12.2023	44.8	36.3	7.4	6.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.12.2023	29.6	27.6	7.9	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.12.2023	26.5	23.4	6.7	6.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.12.2023	33.7	28.2	7.5	7.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.12.2023	41.3	37.7	7.2	6.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.12.2023	35.2	25.8	8.1	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.12.2023	37.9	34.1	6.6	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	26.5	23.4	6.6	6.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	44.8	37.7	8.1	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	35.2	30.3	7.4	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	44.3	27.1	7.5	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	2.0

### Instruments Details:

Instrument : Fine Particulate sampler  
Model/SI NO : AAQ510 / 220831  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2024

### Instruments Details:

Instrument : Repairable Dust sampler  
Model/SI NO : AAQM-60/220518  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2024

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# SPECTRA ENVIROTECH PVT LTD

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram/ Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – December 2023

Location-3: Painampuram Village

Sample Registration Date: 27.12.2023

Issue Date: 01.01.2024

Lab Ref: SEPL/ES/SEILEILP/12-23/0003

Sample collected person details: S. Ganesh

### TEST RESULTS

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
04.12.2023	29.6	22.3	6.1	7.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
05.12.2023	24.4	19.7	8.3	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.12.2023	32.3	23.6	6.5	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.12.2023	27.7	26.5	7.2	6.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.12.2023	31.6	28.4	7.9	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.12.2023	36.1	31.2	7.4	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.12.2023	31.5	27.5	6.6	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.12.2023	25.2	21.1	7.7	6.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	<b>24.4</b>	<b>19.7</b>	<b>6.1</b>	<b>6.4</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	<b>36.1</b>	<b>31.2</b>	<b>8.3</b>	<b>8.2</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	<b>29.8</b>	<b>25.0</b>	<b>7.2</b>	<b>7.3</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	<b>35.6</b>	<b>30.8</b>	<b>8.2</b>	<b>8.1</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

#### Instruments Details:

Instrument : Fine Particulate sampler  
Model/SI NO : AAQ510 / 220732  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2024

#### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : APM-460 NL/503-DTG-2008  
Make : Envirotech  
Calibration Due : 28.02.2024

K.S. Jay  
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Managing Director

LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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# SPECTRA ENVIROTECH PVT LTD

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO: <b>M/s. SEIL ENERGY INDIA LIMITED PROJECT-1</b> (2x660 MW Coal Based Thermal Power Plant), Near Pynampuram/ Nelaturu (V), Muthukur (M), SPSR Nellore (Dist.) -524344.	
Discipline: Chemical	Sample Registration Date: 27.12.2023
Group: Atmospheric Pollution	Issue Date: 01.01.2024
Product: Ambient Air Quality Monitoring – December 2023	Lab Ref: SEPL/ES/SEILEILP/12-23/0004
Location-4: Nelaturu Village	Sample collected person details: S. Ganesh

## TEST RESULTS

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
04.12.2023	27.6	24.5	7.1	6.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
05.12.2023	24.3	21.7	6.9	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.12.2023	32.5	29.3	6.6	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.12.2023	29.4	25.4	6.1	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.12.2023	35.2	32.6	7.5	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.12.2023	26.7	22.3	8.4	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.12.2023	25.8	23.1	6.7	6.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.12.2023	31.8	27.1	6.3	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	24.3	21.7	6.1	6.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	35.2	32.6	8.4	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	29.2	25.8	7.0	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	34.8	32.1	8.3	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

Instrument : Fine Particulate sampler  
Model/SI NO : AAM-510 /1593 DTF2015  
Make : Envirotech  
Calibration Due : 28.02.2024

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : APQ-600 NL/220517  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2024

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## SUMMARY OF AMBIENT AIR QUALITY DECEMBER 2023

Pollutants	Description	Unit	Fire Station (Plant)-1	Pattapupalem Village-2	Painampuram Village-3	Nelaturu Village-4
PM <sub>10</sub>	Minimum	µg/m <sup>3</sup>	25.4	26.5	24.4	24.3
	Maximum		44.2	44.8	36.1	35.2
	Average		33.5	35.2	29.8	29.2
	98 Percentile		44.0	44.3	35.6	34.8
PM <sub>2.5</sub>	Minimum		21.4	23.4	19.7	21.7
	Maximum		36.7	37.7	31.2	32.6
	Average		27.6	30.3	25.0	25.8
	98 Percentile		35.9	27.1	30.8	32.1
SO <sub>2</sub>	Minimum		6.2	6.6	6.1	6.1
	Maximum		8.7	8.1	8.3	8.4
	Average		7.4	7.4	7.2	7.0
	98 Percentile		8.7	7.5	8.2	8.3
NO <sub>x</sub>	Minimum		6.6	6.1	6.4	6.6
	Maximum		8.3	8.6	8.2	8.8
	Average		7.2	7.1	7.3	7.4
	98 Percentile		8.2	8.5	8.1	8.7

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# SPECTRA ENVIROTECH PVT LTD

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/S. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram/ Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – JANUARY 2024

Location-1: Fire Station (Plant)

Sample Registration Date: 31.01.2024

Issue Date: 08.02.2024

Lab Ref: SEPL/ES/SEILEILP/01-24/0001

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	µg/m <sup>3</sup>				mg/m <sup>3</sup>	µg/m <sup>3</sup>				ng/m <sup>3</sup>		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
01.01.2024	38.2	35.4	18.1	9.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
02.01.2024	42.8	39.6	14.5	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.01.2024	36.6	33.1	11.2	9.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.01.2024	31.1	28.5	16.7	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.01.2024	35.5	31.2	19.8	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.01.2024	32.3	29.8	13.3	9.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.01.2024	44.7	42.5	11.8	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.01.2024	34.3	27.9	17.6	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.01.2024	29.9	25.7	15.4	9.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
30.01.2024	37.5	36.1	12.2	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>29.9</b>	<b>25.7</b>	<b>11.2</b>	<b>8.1</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Max</b>	<b>44.7</b>	<b>42.5</b>	<b>19.8</b>	<b>9.7</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Avg.</b>	<b>36.3</b>	<b>33.0</b>	<b>15.1</b>	<b>9.1</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>98 Percentile</b>	<b>44.4</b>	<b>42.0</b>	<b>19.5</b>	<b>9.7</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

Instrument : Fine Particulate sampler  
Model/SI NO : AAQ510 / 220830  
Make : SSE (Shree Scientific Equipment)  
Calibration Due: 28.02.2024

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : APM-460 NL/381-DTG-2007  
Make : Envirotech  
Calibration Due: 28.02.2024

K.S.Laj  
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Managing Director

LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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# SPECTRA ENVIROTECH PVT LTD

Accredited by MoEF & Accredited by NABL (TC-9903)

Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram/ Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.)- 524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – JANUARY 2024

Location-2: Pattapupalem village

Sample Registration Date: 31.01.2024

Issue Date: 08.02.2024

Lab Ref: SEPL/ES/SEILEILP/01-24/0002

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
01.01.2024	42.5	38.9	15.8	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
02.01.2024	35.1	33.2	18.2	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.01.2024	39.4	36.7	11.9	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.01.2024	26.5	21.5	17.4	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.01.2024	41.2	39.3	14.5	9.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.01.2024	36.3	34.8	16.8	10.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.01.2024	43.6	41.6	12.3	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.01.2024	38.7	35.4	17.1	9.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.01.2024	34.9	28.1	14.6	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
30.01.2024	45.1	42.5	19.2	9.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	26.5	21.5	11.9	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	45.1	42.5	19.2	10.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	38.3	35.2	15.8	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	44.8	42.3	19.0	10.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

Instrument : Fine Particulate sampler  
Model/SI NO : AAQ510 / 220831  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2024

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : AAQM-60/220518  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2024

K.S. Jay  
Verified by



DA  
Authorized by  
Managing Director

LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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# SPECTRA ENVIROTECH PVT LTD

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT -1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram/ Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – JANUARY 2024

Location-3: Painampuram Village

Sample Registration Date: 31.01.2024

Issue Date: 08.02.2024

Lab Ref: SEPL/ES/SEILEILP/01-24/0003

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
01.01.2024	28.6	25.2	10.2	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
02.01.2024	33.8	28.5	15.8	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.01.2024	26.2	22.9	11.7	9.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.01.2024	28.9	25.3	16.2	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.01.2024	35.3	32.8	14.6	9.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.01.2024	36.7	34.1	12.5	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.01.2024	34.5	36.4	9.3	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.01.2024	24.2	21.7	14.4	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.01.2024	37.4	33.2	13.1	7.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
30.01.2024	25.1	24.5	9.5	8.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>24.2</b>	<b>21.7</b>	<b>9.3</b>	<b>7.7</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Max</b>	<b>37.4</b>	<b>36.4</b>	<b>16.2</b>	<b>9.5</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Avg.</b>	<b>31.1</b>	<b>28.5</b>	<b>12.7</b>	<b>8.8</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>98 Percentile</b>	<b>37.3</b>	<b>36.0</b>	<b>16.1</b>	<b>9.5</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

Instrument : Fine Particulate sampler  
Model/SI NO : AAQ510 / 220732  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2024

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : APM-460 NL/503-DTG-2008  
Make : Envirotech  
Calibration Due : 28.02.2024

K.S. Jay  
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Managing Director

LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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# SPECTRA ENVIROTECH PVT LTD

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram/ Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – JANUARY 2024

Location-4: Nelaturu Village

Sample Registration Date: 31.01.2024

Issue Date: 08.02.2024

Lab Ref: SEPL/ES/SEILEILP/01-24/0004

Sample collected person details: S. Ganesh

### TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
01.01.2024	31.2	28.6	9.9	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
02.01.2024	28.8	24.8	11.5	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.01.2024	25.9	22.3	15.1	9.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.01.2024	33.7	31.9	12.7	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.01.2024	34.6	32.4	9.5	9.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.01.2024	29.2	27.3	13.6	8.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.01.2024	26.1	23.5	9.2	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.01.2024	28.8	24.2	9.8	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.01.2024	35.3	33.7	14.5	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
30.01.2024	37.5	35.1	15.3	9.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>25.9</b>	<b>22.3</b>	<b>9.2</b>	<b>8.1</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Max</b>	<b>37.5</b>	<b>35.1</b>	<b>15.3</b>	<b>9.8</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Avg.</b>	<b>31.1</b>	<b>28.4</b>	<b>12.1</b>	<b>9.1</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>98 Percentile</b>	<b>37.1</b>	<b>34.8</b>	<b>15.3</b>	<b>9.8</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

#### Instruments Details:

Instrument : Fine Particulate sampler  
Model/SI NO : AAM-510 /1593 DTF2015  
Make : Envirotech  
Calibration Due : 28.02.2024

#### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : APQ-600 NL/220517  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2024

K.S. Jay  
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Managing Director

LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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## SUMMARY OF AMBIENT AIR QUALITY-JANUARY 2024

Pollutants	Description	Unit	Fire Station (Plant)-1	Pattapupalem Village-2	Painampuram Village-3	Nelaturu Village-4
PM <sub>10</sub>	Minimum	μg/m <sup>3</sup>	29.9	26.5	24.2	25.9
	Maximum		44.7	45.1	37.4	37.5
	Average		36.3	38.3	31.1	31.1
	98 Percentile		44.4	44.8	37.3	37.1
PM <sub>2.5</sub>	Minimum		25.7	21.5	21.7	22.3
	Maximum		42.5	42.5	36.4	35.1
	Average		33.0	35.2	28.5	28.4
	98 Percentile		42.0	42.3	36.0	34.8
SO <sub>2</sub>	Minimum		11.2	11.9	9.3	9.2
	Maximum		19.8	19.2	16.2	15.3
	Average		15.1	15.8	12.7	12.1
	98 Percentile		19.5	19.0	16.1	15.3
NO <sub>x</sub>	Minimum		8.1	8.1	7.7	8.1
	Maximum		9.7	10.2	9.5	9.8
	Average		9.1	9.2	8.8	9.1
	98 Percentile		9.7	10.1	9.5	9.8

K.S. Jay  
Verified by



DA  
Authorized by  
Managing Director

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# SPECTRA ENVIROTECH PVT LTD

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram/ Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – FEBRUARY 2024

Location-1: Fire Station (Plant)

Sample Registration Date: 28.02.2024

Issue Date: 04.03.2024

Lab Ref: SEPL/ES/SEILEILP/02-24/0001

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	µg/m <sup>3</sup>				mg/m <sup>3</sup>	µg/m <sup>3</sup>				ng/m <sup>3</sup>		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
05.02.2024	41.3	37.4	16.4	9.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
06.02.2024	44.5	36.5	12.3	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.02.2024	38.7	31.9	13.9	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.02.2024	34.6	30.2	14.1	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.02.2024	37.9	33.5	17.6	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.02.2024	34.1	31.7	15.2	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.02.2024	46.8	40.1	13.6	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.02.2024	35.3	29.6	15.9	9.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>34.1</b>	<b>29.6</b>	<b>12.3</b>	<b>8.3</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Max</b>	<b>46.8</b>	<b>40.1</b>	<b>17.6</b>	<b>9.9</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Avg.</b>	<b>39.2</b>	<b>33.9</b>	<b>14.9</b>	<b>9.2</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>98 Percentile</b>	<b>46.5</b>	<b>39.7</b>	<b>17.4</b>	<b>9.9</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

Instrument : Fine Particulate sampler  
Model/SI NO : AAQ510 / 220830  
Make : SSE (Shree Scientific Equipment)  
Calibration Due: 28.02.2025

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : APM-460 NL/381-DTG-2007  
Make : Envirotech  
Calibration Due: 28.02.2025

K.S. Jay  
Verified by



DA  
Authorized by  
Managing Director

LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

Web : www.spectraenviro.com | E-mail: sepl.sjn@gmail.com | info@spectraenviro.com

Cell: 80199 55222, 111 | BRANCHES: VIJAYAWADA | HYDERABAD







# SPECTRA ENVIROTECH PVT LTD

Accredited by MoEF & Accredited by NABL (TC-9903)

Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram/ Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – FEBRUARY 2024

Location-2: Pattapupalem village

Sample Registration Date: 28.02.2024

Issue Date: 04.03.2024

Lab Ref: SEPL/ES/SEILEILP/02-24/0002

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
05.02.2024	45.3	36.2	17.2	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
06.02.2024	37.9	35.8	16.3	8.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.02.2024	36.5	31.9	13.7	9.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.02.2024	29.8	23.7	15.4	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.02.2024	43.4	36.2	16.9	9.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.02.2024	38.7	32.5	14.5	10.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.02.2024	45.3	38.7	11.8	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.02.2024	40.5	33.1	19.6	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	29.8	23.7	11.8	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	45.3	38.7	19.6	10.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	39.7	33.5	15.7	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	45.3	38.4	19.3	10.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

Instrument : Fine Particulate sampler  
Model/SI NO : AAQ510 / 220831  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2025

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : AAQM-60/220518  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2025

K.S. Jay  
Verified by



DA  
Authorized by  
Managing Director

LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035  
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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram/ Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – FEBRUARY 2024

Location-3: Painampuram Village

Sample Registration Date: 28.02.2024

Issue Date: 04.03.2024

Lab Ref: SEPL/ES/SEILEILP/02-24/0003

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
05.02.2024	30.2	23.4	10.5	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
06.02.2024	36.9	26.9	16.1	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.02.2024	29.7	25.7	11.9	9.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.02.2024	24.1	20.8	16.7	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.02.2024	33.5	30.1	14.9	9.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.02.2024	38.8	31.6	12.8	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.02.2024	32.1	30.5	9.6	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.02.2024	26.3	23.3	14.4	9.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	24.1	20.8	9.6	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	38.8	31.6	16.7	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	31.5	26.5	13.4	9.0	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	38.5	31.4	16.6	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

Instrument : Fine Particulate sampler  
Model/SI NO : AAQ510 / 220732  
Make : SSE (Shree Scientific Equipment)  
Calibration Due: 28.02.2025

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : APM-460 NL/503-DTG-2008  
Make : Envirotech  
Calibration Due: 28.02.2025

K.S. Jay  
Verified by



DA  
Authorized by  
Managing Director

LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT -1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram/ Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – FEBRUARY 2024

Location-4: Nelaturu Village

Sample Registration Date: 28.02.2024

Issue Date: 04.03.2024

Lab Ref: SEPL/ES/SEILEILP/02-24/0004

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
05.02.2024	33.6	26.5	9.6	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
06.02.2024	30.8	28.7	11.7	9.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.02.2024	27.4	20.3	15.4	9.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.02.2024	35.9	32.8	12.9	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.02.2024	36.2	30.5	9.3	9.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.02.2024	31.7	29.4	13.8	8.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.02.2024	29.8	25.1	9.5	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.02.2024	30.5	26.9	9.4	9.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>27.4</b>	<b>20.3</b>	<b>9.3</b>	<b>8.3</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Max</b>	<b>36.2</b>	<b>32.8</b>	<b>15.4</b>	<b>9.7</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Avg.</b>	<b>32.0</b>	<b>27.5</b>	<b>11.5</b>	<b>9.1</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>98 Percentile</b>	<b>36.2</b>	<b>32.5</b>	<b>15.2</b>	<b>9.7</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

Instrument : Fine Particulate sampler  
Model/SI NO : AAM-510 /1593 DTF2015  
Make : Envirotech  
Calibration Due : 28.02.2025

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : APQ-600 NL/220517  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2025

K.S. Jay  
Verified by



DA  
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Managing Director

LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

Web : www.spectraenviro.com | E-mail: sepl.sjn@gmail.com | info@spectraenviro.com

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# SPECTRA ENVIROTECH PVT LTD

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## SUMMARY OF AMBIENT AIR QUALITY-FEBRUARY 2024

Pollutants	Description	Unit	Fire Station (Plant)-1	Pattapupalem Village-2	Painampuram Village-3	Nelaturu Village-4
PM <sub>10</sub>	Minimum	μg/m <sup>3</sup>	34.1	29.8	24.1	27.4
	Maximum		46.8	45.3	38.8	36.2
	Average		39.15	39.7	31.5	32.0
	98 Percentile		46.5	45.3	38.5	36.2
PM <sub>2.5</sub>	Minimum		29.6	23.7	20.8	20.3
	Maximum		40.1	38.7	31.6	32.8
	Average		33.9	33.5	26.5	27.5
	98 Percentile		39.7	38.4	31.4	32.5
SO <sub>2</sub>	Minimum		12.3	11.8	9.6	9.3
	Maximum		17.6	19.6	16.7	15.4
	Average		14.9	15.7	13.4	11.5
	98 Percentile		17.4	19.3	16.6	15.2
NO <sub>x</sub>	Minimum		8.3	8.1	8.3	8.3
	Maximum		9.9	10.5	9.9	9.7
	Average		9.2	9.2	9.0	9.1
	98 Percentile		9.9	10.4	9.9	9.7

K.S. Jay  
Verified by



DA  
Authorized by  
Managing Director

LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035  
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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/S. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram/ Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – MARCH 2024

Location-1: Fire Station (Plant)

Sample Registration Date: 28.03.2024

Issue Date: 03.04.2024

Lab Ref: SEPL/ES/SEILEILP/03-24/0001

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
03.04.2024	38.5	36.9	15.3	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
05.03.2024	41.8	39.2	11.6	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.03.2024	35.1	32.6	18.2	8.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.03.2024	38.3	35.5	16.8	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.03.2024	34.6	31.4	12.4	9.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.03.2024	32.4	27.3	17.5	9.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.03.2024	36.2	34.7	19.7	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.03.2024	33.7	28.1	13.1	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	32.4	27.3	11.6	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	41.8	39.2	19.7	9.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	36.3	33.2	15.6	9.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	41.3	38.9	19.5	9.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

Instrument : Fine Particulate sampler  
Model/SI NO : AAQ510 / 220830  
Make : SSE (Shree Scientific Equipment)  
Calibration Due: 28.02.2025

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : APM-460 NL/381-DTG-2007  
Make : Envirotech  
Calibration Due: 28.02.2025

K.S. Jay  
Verified by



DA  
Authorized by  
Managing Director

LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram/ Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – MARCH 2024

Location-2: Pattapupalem village

Sample Registration Date: 28.03.2024

Issue Date: 03.04.2024

Lab Ref: SEPL/ES/SEILEILP/03-24/0002

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	µg/m <sup>3</sup>				mg/m <sup>3</sup>	µg/m <sup>3</sup>				ng/m <sup>3</sup>		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
03.04.2024	41.3	38.6	14.5	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
05.03.2024	35.1	31.4	19.3	8.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.03.2024	38.7	36.3	16.1	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.03.2024	26.2	25.5	11.6	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.03.2024	43.8	39.7	17.4	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.03.2024	37.5	33.2	15.2	10.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.03.2024	39.6	37.1	12.7	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.03.2024	33.4	32.9	18.8	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>26.2</b>	<b>25.5</b>	<b>11.6</b>	<b>8.1</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Max</b>	<b>43.8</b>	<b>39.7</b>	<b>19.3</b>	<b>10.1</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Avg.</b>	<b>37.0</b>	<b>34.3</b>	<b>15.7</b>	<b>9.0</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>98 Percentile</b>	<b>43.5</b>	<b>39.5</b>	<b>19.2</b>	<b>10.0</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

Instrument : Fine Particulate sampler  
Model/SI NO : AAQ510 / 220831  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2025

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : AAQM-60/220518  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2025

K.S. Jay  
Verified by



DA  
Authorized by  
Managing Director

**LABORATORY** : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035  
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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram/ Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – MARCH 2024

Location-3: Painampuram Village

Sample Registration Date: 28.03.2024

Issue Date: 03.04.2024

Lab Ref: SEPL/ES/SEILEILP/03-24/0003

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
03.04.2024	28.4	25.3	10.1	9.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
05.03.2024	32.6	29.5	15.9	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.03.2024	26.2	24.1	13.2	9.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.03.2024	23.7	19.6	18.8	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.03.2024	35.1	32.4	12.5	10.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.03.2024	37.3	36.2	16.3	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.03.2024	25.9	23.9	11.6	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.03.2024	31.8	28.7	14.7	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>23.7</b>	<b>19.6</b>	<b>10.1</b>	<b>8.3</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Max</b>	<b>37.3</b>	<b>36.2</b>	<b>18.8</b>	<b>10.2</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Avg.</b>	<b>30.1</b>	<b>27.5</b>	<b>14.1</b>	<b>9.2</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>98 Percentile</b>	<b>37.0</b>	<b>35.7</b>	<b>18.5</b>	<b>10.2</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

Instrument : Fine Particulate sampler  
Model/SI NO : AAQ510 / 220732  
Make : SSE (Shree Scientific Equipment)  
Calibration Due: 28.02.2025

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : APM-460 NL/503-DTG-2008  
Make : Envirotech  
Calibration Due : 28.02.2025

K.S. Jay  
Verified by



DA  
Authorized by  
Managing Director

LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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# SPECTRA ENVIROTECH PVT LTD

Accredited by MoEF & Accredited by NABL (TC-9903)

Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram/ Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – MARCH 2024

Location-4: Nelaturu Village

Sample Registration Date: 28.03.2024

Issue Date: 03.04.2024

Lab Ref: SEPL/ES/SEILEILP/03-24/0004

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	µg/m <sup>3</sup>				mg/m <sup>3</sup>	µg/m <sup>3</sup>				ng/m <sup>3</sup>		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
03.04.2024	28.2	25.9	15.2	8.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
05.03.2024	31.6	27.3	18.5	9.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.03.2024	26.4	24.5	12.7	9.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.03.2024	24.8	21.2	19.8	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.03.2024	28.7	26.4	10.4	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.03.2024	30.1	28.6	14.1	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.03.2024	25.5	23.7	11.9	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.03.2024	32.3	29.1	16.6	9.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>24.8</b>	<b>21.2</b>	<b>10.4</b>	<b>8.5</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Max</b>	<b>32.3</b>	<b>29.1</b>	<b>19.8</b>	<b>9.8</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Avg.</b>	<b>28.5</b>	<b>25.8</b>	<b>14.9</b>	<b>9.1</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>98 Percentile</b>	<b>32.2</b>	<b>29.0</b>	<b>19.6</b>	<b>9.7</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

Instrument : Fine Particulate sampler  
Model/SI NO : AAM-510 /1593 DTF2015  
Make : Envirotech  
Calibration Due : 28.02.2025

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : APQ-600 NL/220517  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2025

K.S. Jay  
Verified by



DA  
Authorized by  
Managing Director

**LABORATORY** : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035  
**Web** : www.spectraenviro.com | **E-mail**: sepl.sjn@gmail.com | info@spectraenviro.com  
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# SPECTRA ENVIROTECH PVT LTD

Accredited by MoEF & Accredited by NABL (TC-9903)

Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## SUMMARY OF AMBIENT AIR QUALITY- MARCH 2024

Pollutants	Description	Unit	Fire Station (Plant)-1	Pattapupalem Village-2	Painampuram Village-3	Nelaturu Village-4
PM <sub>10</sub>	Minimum	μg/m <sup>3</sup>	32.4	26.2	23.7	24.8
	Maximum		41.8	43.8	37.3	32.3
	Average		36.3	37.0	30.1	28.5
	98 Percentile		41.3	43.5	37.0	32.2
PM <sub>2.5</sub>	Minimum		27.3	25.5	19.6	21.2
	Maximum		39.2	39.7	36.2	29.1
	Average		33.2	34.3	27.5	25.8
	98 Percentile		38.9	39.5	35.7	29.0
SO <sub>2</sub>	Minimum		11.6	11.6	10.1	10.4
	Maximum		19.7	19.3	18.8	19.8
	Average		15.6	15.7	14.1	14.9
	98 Percentile		19.5	19.2	18.5	19.6
NO <sub>x</sub>	Minimum		8.4	8.1	8.3	8.5
	Maximum		9.8	10.1	10.2	9.8
	Average		9.1	9.0	9.2	9.1
	98 Percentile		9.8	10.0	10.2	9.7

K.S. Jay  
Verified by



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LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035  
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# SPECTRA ENVIROTECH PVT LTD

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Group:** Atmospheric Pollution

**Product:** Noise Monitoring (24 Hrs.)- November 2023

**Sampling Location-1:** Main Gate

**Sample Registration Date:** 24.11.023

**Issue Date:** 30.11.2023

**Lab Ref:** SEPL/ES/SEILEILP/11-23/0001

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	23.11.2023	00:00	36.4
2		01:00	39.6
3		02:00	34.5
4		03:00	41.4
5		04:00	43.7
6		05:00	35.9
7		06:00	51.6
8		07:00	53.3
9		08:00	56.7
10		09:00	55.8
11		10:00	48.1
12		11:00	52.5
13		12:00	57.9
14		13:00	53.6
15		14:00	47.2
16		15:00	58.8
17		16:00	59.1
18		17:00	47.4
19		18:00	51.6
20		19:00	44.4
21		20:00	48.2
22		21:00	44.5
23		22:00	41.7
24		23:00	38.3

**CPCB Standard:** Day Time: (6 AM-10 PM) < 75 dB (A), Night Time: (10 PM-6 AM) < 70 dB (A)

**Instrument Details:** Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097640

Calibration Due : 28.02.2024

*K.S.Laj*  
Verified by



*DA*  
Authorized by  
Managing Director

**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

**Web :** www.spectraenviro.com | **E-mail:** sepl.sjn@gmail.com | info@spectraenviro.com

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## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Group:** Atmospheric Pollution

**Product:** Noise Monitoring (24 Hrs.)- November 2023

**Sampling Location-2:** BTG Area

**Sample Registration Date:** 24.11.023

**Issue Date:** 30.11.2023

**Lab Ref:** SEPL/ES/SEILEILP/11-23/0002

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	23.11.2023	00:00	38.7
2		01:00	43.5
3		02:00	45.3
4		03:00	41.4
5		04:00	48.1
6		05:00	44.9
7		06:00	48.6
8		07:00	51.2
9		08:00	56.7
10		09:00	55.3
11		10:00	52.5
12		11:00	48.6
13		12:00	57.4
14		13:00	53.2
15		14:00	47.7
16		15:00	51.9
17		16:00	56.5
18		17:00	55.6
19		18:00	49.3
20		19:00	46.4
21		20:00	44.7
22		21:00	48.5
23		22:00	47.3
24		23:00	45.2

**CPCB Standard:** Day Time: (6 AM-10 PM) < 75 dB (A), Night Time: (10 PM-6 AM) < 70 dB (A)

**Instrument Details:** Sound Level Meter

Make/Model : Standard/SC-05

Serial No : 200525272

Calibration Due : 28.02.2024

*K.S.Laj*  
Verified by



*DA*  
Authorized by  
Managing Director

**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Group:** Atmospheric Pollution

**Product:** Noise Monitoring (24 Hrs.)- November 2023

**Sampling Location-3:** Coal Handling Plant

**Sample Registration Date:** 24.11.023

**Issue Date:** 30.11.2023

**Lab Ref:** SEPL/ES/SEILEILP/11-23/0003

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	23.11.2023	00:00	46.3
2		01:00	41.7
3		02:00	47.9
4		03:00	45.5
5		04:00	49.6
6		05:00	42.2
7		06:00	51.4
8		07:00	49.6
9		08:00	52.9
10		09:00	55.8
11		10:00	57.5
12		11:00	52.3
13		12:00	51.7
14		13:00	58.1
15		14:00	55.4
16		15:00	48.5
17		16:00	53.7
18		17:00	57.6
19		18:00	49.2
20		19:00	54.3
21		20:00	52.6
22		21:00	46.1
23		22:00	44.4
24		23:00	42.7

**CPCB Standard:** Day Time: (6 AM-10 PM) < 75 dB (A), Night Time: (10 PM-6 AM) < 70 dB (A)

**Instrument Details:** Sound Level Meter

Make/Model : Lutron /SL-34001

Serial No : Q6352440

Calibration Due : 28.02.2024

*K.S.Laj*  
Verified by



*DA*  
Authorized by  
Managing Director

**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Group:** Atmospheric Pollution

**Product:** Noise Monitoring (24 Hrs.)- November 2023

**Sampling Location-4:** Pattapupalem Village

**Sample Registration Date:** 24.11.023

**Issue Date:** 30.11.2023

**Lab Ref:** SEPL/ES/SEILEILP/11-23/0004

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	23.11.2023	00:00	36.6
2		01:00	38.5
3		02:00	32.3
4		03:00	35.4
5		04:00	33.9
6		05:00	37.2
7		06:00	36.7
8		07:00	34.5
9		08:00	38.2
10		09:00	45.4
11		10:00	48.6
12		11:00	44.1
13		12:00	47.8
14		13:00	43.5
15		14:00	46.3
16		15:00	49.7
17		16:00	45.4
18		17:00	41.2
19		18:00	49.7
20		19:00	43.5
21		20:00	48.3
22		21:00	46.4
23		22:00	38.9
24		23:00	36.5

**CPCB Standard:** Day Time: (6 AM-10 PM) < 55 dB (A), Night Time: (10 PM-6 AM) < 45 dB (A)

**Instrument Details:** Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097641

Calibration Due : 28.02.2024

*K.S.Laj*  
Verified by



*DA*  
Authorized by  
Managing Director

**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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# SPECTRA ENVIROTECH PVT LTD

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## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Group:** Atmospheric Pollution

**Product:** Noise Monitoring (24 Hrs.)- November 2023

**Sampling Location-5:** Painampuram Village

**Sample Registration Date:** 24.11.023

**Issue Date:** 30.11.2023

**Lab Ref:** SEPL/ES/SEILEILP/11-23/0005

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	23.11.2023	00:00	36.4
2		01:00	34.3
3		02:00	32.5
4		03:00	38.7
5		04:00	35.6
6		05:00	35.2
7		06:00	31.4
8		07:00	44.6
9		08:00	39.9
10		09:00	41.3
11		10:00	46.5
12		11:00	44.3
13		12:00	45.4
14		13:00	47.6
15		14:00	49.8
16		15:00	44.1
17		16:00	43.5
18		17:00	41.3
19		18:00	45.6
20		19:00	42.5
21		20:00	46.1
22		21:00	38.7
23		22:00	35.3
24		23:00	37.2

**CPCB Standard:** Day Time: (6 AM-10 PM) < 55 dB (A), Night Time: (10 PM-6 AM) < 45 dB (A)

**Instrument Details:** Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097642

Calibration Due : 28.02.2024

*K.S.Laj*  
Verified by



*DA*  
Authorized by  
Managing Director

**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

**Web :** www.spectraenviro.com | **E-mail:** sepl.sjn@gmail.com | info@spectraenviro.com

**Cell:** 80199 55222, 111 | **BRANCHES:** VIJAYAWADA | HYDERABAD





# SPECTRA ENVIROTECH PVT LTD

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## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Group:** Atmospheric Pollution

**Product:** Noise Monitoring (24 Hrs.)- November 2023

**Sampling Location-6:** Nelaturu Village

**Sample Registration Date:** 24.11.023

**Issue Date:** 30.11.2023

**Lab Ref:** SEPL/ES/SEILEILP/11-23/0006

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	23.11.2023	00:00	33.5
2		01:00	39.3
3		02:00	34.6
4		03:00	35.8
5		04:00	37.7
6		05:00	32.4
7		06:00	38.9
8		07:00	33.5
9		08:00	45.4
10		09:00	47.6
11		10:00	44.3
12		11:00	46.8
13		12:00	43.5
14		13:00	48.2
15		14:00	46.6
16		15:00	45.7
17		16:00	47.3
18		17:00	44.5
19		18:00	48.2
20		19:00	37.4
21		20:00	39.6
22		21:00	43.7
23		22:00	38.5
24		23:00	35.3

**CPCB Standard:** Day Time: (6 AM-10 PM) < 55 dB (A), Night Time: (10 PM-6 AM) < 45 dB (A)

**Instrument Details:** Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097643

Calibration Due : 28.02.2024

*K.S.Laj*  
Verified by



*DA*  
Authorized by  
Managing Director

**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

**Web :** www.spectraenviro.com | **E-mail:** sepl.sjn@gmail.com | info@spectraenviro.com

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# SPECTRA ENVIROTECH PVT LTD

Accredited by MoEF & Accredited by NABL (TC-9903)

Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Group:** Atmospheric Pollution

**Product:** Noise Monitoring (24 Hrs.)- November 2023

**Date of Sampling:** 23-11-2023

**Sample Registration Date:** 24.11.023

**Issue Date:** 30.11.2023

**Lab Ref:** SEPL/ES/SEILELP/11-23/0007

## TEST RESULT

Particulars	Main Gate dB (A)	BTG Area dB (A)	Coal Handling Plant dB (A)	Pattapupalem Village dB (A)	Painampuram Village dB (A)	Nelaturu Village dB (A)
	Day Time: (6 AM-10 PM) < 75 dB (A), Night Time: (10 PM-6 AM) < 70 dB (A)			Day Time: (6 AM-10 PM) < 55 dB (A), Night Time: (10 PM-6 AM) < 45 dB (A)		
Minimum	34.5	38.7	41.7	32.3	32.5	32.4
Maximum	59.1	57.4	58.1	49.7	49.8	48.2
Average	47.5	49.1	50.2	41.6	41.4	41.1

*K.S.Laj*  
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*DA*  
Authorized by  
Managing Director

**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Group:** Atmospheric Pollution

**Product:** Noise Monitoring (24 Hrs.)- February 2024

**Sampling Location-1:** Main Gate

**Sample Registration Date:** 21.02.2024

**Issue Date:** 27.02.2024

**Lab Ref:** SEPL/ES/SEILEILP/02-24/0001

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	20.02.2024	00:00	35.3
2		01:00	37.5
3		02:00	33.6
4		03:00	40.2
5		04:00	42.8
6		05:00	34.9
7		06:00	50.2
8		07:00	52.9
9		08:00	55.7
10		09:00	56.7
11		10:00	49.3
12		11:00	53.1
13		12:00	56.8
14		13:00	51.4
15		14:00	48.6
16		15:00	59.3
17		16:00	58.7
18		17:00	46.5
19		18:00	50.6
20		19:00	43.2
21		20:00	45.1
22		21:00	43.9
23		22:00	42.8
24		23:00	37.5

**CPCB Standard:** Day Time: (6 AM-10 PM) < 75 dB (A), Night Time: (10 PM-6 AM) < 70 dB (A)

**Instrument Details:** Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097640

Calibration Due : 28.02.2025

*K.S.Laj*  
Verified by



*DA*  
Authorized by  
Managing Director

**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Group:** Atmospheric Pollution

**Product:** Noise Monitoring (24 Hrs.)- February 2024

**Sampling Location-2:** BTG Area

**Sample Registration Date:** 21.02.2024

**Issue Date:** 27.02.2024

**Lab Ref:** SEPL/ES/SEILEILP/02-24/0002

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	20.02.2024	00:00	39.6
2		01:00	44.1
3		02:00	46.7
4		03:00	42.8
5		04:00	47.6
6		05:00	45.0
7		06:00	47.5
8		07:00	50.4
9		08:00	57.2
10		09:00	54.6
11		10:00	53.8
12		11:00	49.7
13		12:00	56.1
14		13:00	54.6
15		14:00	48.9
16		15:00	52.8
17		16:00	55.4
18		17:00	56.3
19		18:00	48.7
20		19:00	47.6
21		20:00	45.9
22		21:00	47.8
23		22:00	46.1
24		23:00	44.2

**CPCB Standard:** Day Time: (6 AM-10 PM) < 75 dB (A), Night Time: (10 PM-6 AM) < 70 dB (A)

**Instrument Details:** Sound Level Meter

Make/Model : Standard/SC-05

Serial No : 200525272

Calibration Due : 28.02.2025

*K.S.Laj*  
Verified by



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Authorized by  
Managing Director

**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Group:** Atmospheric Pollution

**Product:** Noise Monitoring (24 Hrs.)- February 2024

**Sampling Location-3:** Coal Handling Plant

**Sample Registration Date:** 21.02.2024

**Issue Date:** 27.02.2024

**Lab Ref:** SEPL/ES/SEILEILP/02-24/0003

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	20.02.2024	00:00	45.3
2		01:00	42.8
3		02:00	46.7
4		03:00	46.9
5		04:00	48.7
6		05:00	43.1
7		06:00	52.8
8		07:00	50.4
9		08:00	51.6
10		09:00	56.4
11		10:00	58.3
12		11:00	53.8
13		12:00	54.7
14		13:00	59.1
15		14:00	56.3
16		15:00	49.9
17		16:00	52.4
18		17:00	58.1
19		18:00	50.3
20		19:00	55.9
21		20:00	51.7
22		21:00	47.8
23		22:00	45.6
24		23:00	43.2

**CPCB Standard:** Day Time: (6 AM-10 PM) < 75 dB (A), Night Time: (10 PM-6 AM) < 70 dB (A)

**Instrument Details:** Sound Level Meter

Make/Model : Lutron /SL-34001

Serial No : Q6352440

Calibration Due : 28.02.2025

*K.S.Laj*  
Verified by



*DA*  
Authorized by  
Managing Director

**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Group:** Atmospheric Pollution

**Product:** Noise Monitoring (24 Hrs.)- February 2024

**Sampling Location-4:** Pattapupalem Village

**Sample Registration Date:** 21.02.2024

**Issue Date:** 27.02.2024

**Lab Ref:** SEPL/ES/SEILEILP/02-24/0004

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	20.02.2024	00:00	37.4
2		01:00	37.9
3		02:00	33.5
4		03:00	36.7
5		04:00	34.8
6		05:00	39.1
7		06:00	35.6
8		07:00	33.2
9		08:00	37.4
10		09:00	46.9
11		10:00	42.6
12		11:00	45.7
13		12:00	41.9
14		13:00	44.3
15		14:00	43.2
16		15:00	48.8
17		16:00	46.7
18		17:00	42.6
19		18:00	48.1
20		19:00	44.3
21		20:00	47.5
22		21:00	45.6
23		22:00	37.3
24		23:00	35.9

**CPCB Standard:** Day Time: (6 AM-10 PM) <55 dB (A), Night Time: (10 PM-6 AM) <45 dB (A)

**Instrument Details:** Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097641

Calibration Due : 28.02.2025

K.S.Laj  
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Authorized by  
Managing Director

**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Group:** Atmospheric Pollution

**Product:** Noise Monitoring (24 Hrs.)- February 2024

**Sampling Location-5:** Painampuram Village

**Sample Registration Date:** 21.02.2024

**Issue Date:** 27.02.2024

**Lab Ref:** SEPL/ES/SEILEILP/02-24/0005

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	20.02.2024	00:00	35.7
2		01:00	36.9
3		02:00	34.1
4		03:00	36.8
5		04:00	31.2
6		05:00	37.6
7		06:00	39.8
8		07:00	46.3
9		08:00	36.5
10		09:00	43.4
11		10:00	41.6
12		11:00	46.7
13		12:00	47.8
14		13:00	49.3
15		14:00	42.4
16		15:00	46.2
17		16:00	45.9
18		17:00	43.6
19		18:00	47.1
20		19:00	45.8
21		20:00	44.5
22		21:00	36.5
23		22:00	37.4
24		23:00	39.8

**CPCB Standard:** Day Time: (6 AM-10 PM) <55 dB (A), Night Time: (10 PM-6 AM) <45 dB (A)

**Instrument Details:** Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097642

Calibration Due : 28.02.2025

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**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Group:** Atmospheric Pollution

**Product:** Noise Monitoring (24 Hrs.)- February 2024

**Sampling Location-6:** Nelaturu Village

**Sample Registration Date:** 21.02.2024

**Issue Date:** 27.02.2024

**Lab Ref:** SEPL/ES/SEILEILP/02-24/0006

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	20.02.2024	00:00	34.5
2		01:00	36.7
3		02:00	36.5
4		03:00	38.9
5		04:00	35.1
6		05:00	30.2
7		06:00	32.8
8		07:00	35.9
9		08:00	47.1
10		09:00	45.8
11		10:00	38.5
12		11:00	45.8
13		12:00	46.2
14		13:00	46.7
15		14:00	43.0
16		15:00	47.2
17		16:00	49.6
18		17:00	46.1
19		18:00	47.3
20		19:00	39.6
21		20:00	35.2
22		21:00	40.1
23		22:00	35.3
24		23:00	37.7

**CPCB Standard:** Day Time: (6 AM-10 PM) <55 dB (A), Night Time: (10 PM-6 AM) <45 dB (A)

**Instrument Details:** Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097643

Calibration Due : 28.02.2025

*K.S.Laj*  
Verified by



*DA*  
Authorized by  
Managing Director

**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Group:** Atmospheric Pollution

**Product:** Noise Monitoring (24 Hrs.)- February 2024

**Date of Sampling:** 20-02-2024

**Sample Registration Date:** 21.02.2024

**Issue Date:** 27.02.2024

**Lab Ref:** SEPL/ES/SEILEIP/02-24/0007

## TEST RESULT

Particulars	Main Gate dB (A)	BTG Area dB (A)	Coal Handling Plant dB (A)	Pattapupalem Village dB (A)	Painampuram Village dB (A)	Nelaturu Village dB (A)
	Day Time: (6 AM-10 PM) < 75 dB (A), Night Time: (10 PM-6 AM) < 70 dB (A)			Day Time: (6 AM-10 PM) < 55 dB (A), Night Time: (10 PM-6 AM) < 45 dB (A)		
Minimum	33.6	39.6	42.8	33.2	31.2	30.2
Maximum	59.3	57.2	59.1	48.8	49.8	49.6
Average	46.94	49.30	50.90	41.12	41.78	40.49

K.S.Laj  
Verified by



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Authorized by  
Managing Director

**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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## TEST REPORT

ANNEXURE-IV

ISSUED TO: <b>M/s. SEIL ENERGY INDIA LIMITED PROJECT-1</b> (2x660 MW Coal Based Thermal Power Plant), Near Pynampuram / Nelaturu (V), Muthukur (M), SPSR Nellore (Dist.) -524344.	
<b>Discipline: Chemical</b> <b>Group: Water</b> <b>Product: Ground Water</b> <b>Location-1: Ground Water – Nelaturu Village (GW-1)</b> <b>Location-2: Ground Water – Pynampuram Village (GW-2)</b> <b>Date of Monitoring: 23.11.2023</b>	<b>Sample Registration Date: 24.11.2023</b> <b>Analysis Starting Date: 24.11.2023</b> <b>Analysis Completed Date: 30.11.2023</b> <b>Issue Date: 01.12.2023</b> <b>Lab Ref: SEPL/ES/SEILEILP/11-23/0001</b> <b>Sample Collected By: Ganesh</b>

## TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				GW-1	GW-2	ACCEPTABLE	PERMISSIBLE
1	pH	--	IS3025(P-11)2021	7.7	7.2	6.5- 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.0	1.0	1.0	5.0
3	Taste	--	IS-3025(P-8)	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	--	IS-3025(P-5)	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	IS3025(P-10)1984	1.0	1.0	1.0	5.0
6	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,658	1,435	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	1027	995	500	2000
8	Total Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	187	198	200	600
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	238	241	200	600
10	P- Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	Nil	Nil	--	--
11	Calcium as Ca	mg/l	IS3025(P-40)1991	34.7	58.5	75	200
12	Magnesium as Mg	mg/l	IS3025(P-40)1991	18.4	17.8	30	100
13	Free Residual Chlorine	mg/l	IS3025(P-26)1986	0.19	0.12	0.2	No Relaxation
14	Boron as B	mg/l	IS3025(P-57)2021	0.03	0.04	0.5	1.0
15	Sodium as Na	mg/l	IS3025(P-45)1993	157	163	--	--

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				GW-1	GW-2	ACCEPTABLE	PERMISSIBLE
16	Potassium as K	mg/l	IS3025(P-45)1993	36	48	--	--
17	Chloride as Cl	mg/l	IS3025(P-32)1988	128	132	250	1000
18	Sulphates as SO <sub>4</sub>	mg/l	IS3025(P-24)1986	88.1	85.6	200	400
19	Nitrates as NO <sub>3</sub>	mg/l	IS3025(P-34)1988	25.3	31.2	45	No Relaxation
20	Anionic Detergents as MBAS	mg/l	Annex K of IS 13428	<0.1	<0.1	<0.2	<1.0
21	Mineral Oil	mg/l	IS 3025(Pt-39)	<0.5	<0.5	<0.5	No Relaxation
22	Iron as Fe	mg/l	IS3025(P-53)2003	0.12	0.18	<0.3	No Relaxation
23	Fluoride as F	mg/l	IS3025(P-60)2008	0.74	0.78	<1.0	<1.5
24	Copper as Cu	mg/l	IS3025(P-42)1992	0.03	0.02	<0.05	<1.5
25	Manganese as Mn	mg/l	IS3025(P-59)2006	<0.1	<0.1	<0.1	<0.3
26	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	mg/l	IS3025(P-43)1992	<0.001	<0.001	<0.001	<0.002
27	Cadmium as Cd	mg/l	IS3025(P-41)1992	<0.001	<0.001	<0.003	No Relaxation
28	Mercury as Hg	mg/l	IS3025(P-48)1994	<0.001	<0.001	<0.001	No Relaxation
29	Selenium as Se	mg/l	IS3025(P-56)2003	<0.01	<0.01	<0.01	No Relaxation
30	Total Arsenic as As	mg/l	IS3025(P-37)1988	<0.01	<0.01	<0.01	<0.20
31	Cyanide as CN	mg/l	IS3025(P-27)1986	<0.01	<0.01	<0.05	No Relaxation
32	Lead as Pb	mg/l	IS3025(P-47)1994	<0.01	<0.01	<0.01	No Relaxation
33	Zinc as Zn	mg/l	IS3025(P-49)1994	0.04	0.03	<5.0	<15
34	Hexavalent Chromium as Cr <sup>+6</sup>	mg/l	IS3025(P-52)2003	<0.02	<0.05	<0.05	<1.0
35	Silica as SiO <sub>2</sub>	mg/l	IS3025(P-35)1988	5.8	5.1	--	--
36	Pesticides	mg/l	As per STP	<0.01	<0.01	--	No Relaxation
37	E-Coli	Per/ 100 ml	ISO 9308-1	Absent	Absent	Absent/ 100 ml	Absent/ 100 ml
38	Total Coliform	Per/ 100 ml	ISO 9308-1	Absent	Absent	Absent/ 100 ml	Absent/ 100 ml

K.S.Laj  
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LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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# SPECTRA ENVIROTECH PVT LTD

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline: Chemical**

**Group: Water**

**Product: Ground Water**

**Location-3: Ground Water – Nelaturupalem Village (GW-3)**

**Location-4: Ground Water – Musunurivaripalem Village (GW-4)**

**Date of Monitoring: 23.11.2023**

**Sample Registration Date: 24.11.2023**

**Analysis Starting Date: 24.11.2023**

**Analysis Completed Date: 30.11.2023**

**Issue Date: 01.12.2023**

**Lab Ref: SEPL/ES/SEILELP/11-23/0002**

**Sample Collected By: Ganesh**

## TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				GW-3	GW-4	ACCEPTABLE	PERMISSIBLE
1	pH	--	IS3025(P-11)2021	7.8	7.3	6.5- 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.0	1.0	1.0	5.0
3	Taste	--	IS-3025(P-8)	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	--	IS-3025(P-5)	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	IS3025(P-10)1984	1.0	1.0	1.0	5.0
6	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,669	1,515	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	1,174	1,067	500	2000
8	Total Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	254	243	200	600
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	232	227	200	600
10	P- Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	Nil	Nil	--	--
11	Calcium as Ca	mg/l	IS3025(P-40)1991	54.8	57.3	75	200
12	Magnesium as Mg	mg/l	IS3025(P-40)1991	19.5	25.8	30	100
13	Free Residual Chlorine	mg/l	IS3025(P-26)1986	<0.1	<0.1	0.2	No Relaxation
14	Boron as B	mg/l	IS3025(P-57)2021	0.35	0.27	0.5	1.0
15	Sodium as Na	mg/l	IS3025(P-45)1993	152	165	174	182

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**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				GW-3	GW-4	ACCEPTABLE	PERMISSIBLE
16	Potassium as K	mg/l	IS3025(P-45)1993	28	26	--	--
17	Chloride as Cl	mg/l	IS3025(P-32)1988	131	147	250	1000
18	Sulphates as SO <sub>4</sub>	mg/l	IS3025(P-24)1986	75.4	86.7	200	400
19	Nitrates as NO <sub>3</sub>	mg/l	IS3025(P-34)1988	35.3	27.7	45	No Relaxation
20	Anionic Detergents as MBAS	mg/l	Annex K of IS 13428	<0.1	<0.1	<0.2	<1.0
21	Mineral Oil	mg/l	IS 3025(Pt-39)	<0.5	<0.5	<0.5	No Relaxation
22	Iron as Fe	mg/l	IS3025(P-53)2003	0.03	0.04	<0.3	No Relaxation
23	Fluoride as F	mg/l	IS3025(P-60)2008	0.27	0.58	<1.0	<1.5
24	Copper as Cu	mg/l	IS3025(P-42)1992	0.02	0.01	<0.05	<1.5
25	Manganese as Mn	mg/l	IS3025(P-59)2006	<0.1	<0.1	<0.1	<0.3
26	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	mg/l	IS3025(P-43)1992	<0.001	<0.001	<0.001	<0.002
27	Cadmium as Cd	mg/l	IS3025(P-41)1992	<0.001	<0.001	<0.003	No Relaxation
28	Mercury as Hg	mg/l	IS3025(P-48)1994	<0.001	<0.001	<0.001	No Relaxation
29	Selenium as Se	mg/l	IS3025(P-56)2003	<0.01	<0.01	<0.01	No Relaxation
30	Total Arsenic as As	mg/l	IS3025(P-37)1988	<0.01	<0.01	<0.01	<0.20
31	Cyanide as CN	mg/l	IS3025(P-27)1986	<0.01	<0.01	<0.05	No Relaxation
32	Lead as Pb	mg/l	IS3025(P-47)1994	<0.01	<0.01	<0.01	No Relaxation
33	Zinc as Zn	mg/l	IS3025(P-49)1994	0.03	0.04	<5.0	<15
34	Hexavalent Chromium as Cr <sup>+6</sup>	mg/l	IS3025(P-52)2003	<0.05	<0.05	<0.05	<1.0
35	Silica as SiO <sub>2</sub>	mg/l	IS3025(P-35)1988	6.7	6.4	--	--
36	Pesticides	mg/l	As per STP	<0.01	<0.01	--	No Relaxation
37	E-Coli	Per/100 ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml
38	Total Coliform	Per/100 ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml

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# SPECTRA ENVIROTECH PVT LTD

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline: Chemical**

**Group: Water**

**Product: Ground Water**

**Location-5: Ground Water – Amudalapadu Village (GW-5)**

**Location-6: Ground Water – Kothapalem Village (GW-6)**

**Date of Monitoring: 23.11.2023**

**Sample Registration Date: 24.11.2023**

**Analysis Starting Date: 24.11.2023**

**Analysis Completed Date: 30.11.2023**

**Issue Date: 01.12.2023**

**Lab Ref: SEPL/ES/SEILEILP/11-23/0003**

**Sample Collected By: Ganesh**

## TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				GW-5	GW-6	ACCEPTABLE	PERMISSIBLE
1	pH	--	IS3025(P-11)2021	7.1	6.9	6.5- 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.0	1.0	1.0	5.0
3	Taste	--	IS-3025(P-8)	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	--	IS-3025(P-5)	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	IS3025(P-10)1984	0.8	0.5	1.0	5.0
6	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,318	1,285	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	938	987	500	2000
8	Total Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	184	174	200	600
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	157	165	200	600
10	P- Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	Nil	Nil	--	--
11	Calcium as Ca	mg/l	IS3025(P-40)1991	41.7	52.3	75	200
12	Magnesium as Mg	mg/l	IS3025(P-40)1991	23.5	21.7	30	100
13	Free Residual Chlorine	mg/l	IS3025(P-26)1986	0.16	0.13	0.2	No Relaxation
14	Boron as B	mg/l	IS3025(P-57)2021	0.04	0.03	0.5	1.0
15	Sodium as Na	mg/l	IS3025(P-45)1993	141	138	--	--

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**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				GW-5	GW-6	ACCEPTABLE	PERMISSIBLE
16	Potassium as K	mg/l	IS3025(P-45)1993	18	13	--	--
17	Chloride as Cl	mg/l	IS3025(P-32)1988	163	175	250	1000
18	Sulphates as SO <sub>4</sub>	mg/l	IS3025(P-24)1986	75.4	68.5	200	400
19	Nitrates as NO <sub>3</sub>	mg/l	IS3025(P-34)1988	32.5	27.6	45	No Relaxation
20	Anionic Detergents as MBAS	mg/l	Annex K of IS 13428	<0.1	<0.1	<0.2	<1.0
21	Mineral Oil	mg/l	IS 3025(Pt-39)	<0.5	<0.5	<0.5	No Relaxation
22	Iron as Fe	mg/l	IS3025(P-53)2003	0.04	0.03	<0.3	No Relaxation
23	Fluoride as F	mg/l	IS3025(P-60)2008	0.63	0.65	<1.0	<1.5
24	Copper as Cu	mg/l	IS3025(P-42)1992	0.03	0.02	<0.05	<1.5
25	Manganese as Mn	mg/l	IS3025(P-59)2006	<0.1	<0.1	<0.1	<0.3
26	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	mg/l	IS3025(P-43)1992	<0.001	<0.001	<0.001	<0.002
27	Cadmium as Cd	mg/l	IS3025(P-41)1992	<0.001	<0.001	<0.003	No Relaxation
28	Mercury as Hg	mg/l	IS3025(P-48)1994	<0.001	<0.001	<0.001	No Relaxation
29	Selenium as Se	mg/l	IS3025(P-56)2003	<0.01	<0.01	<0.01	No Relaxation
30	Total Arsenic as As	mg/l	IS3025(P-37)1988	<0.01	<0.01	<0.01	<0.20
31	Cyanide as CN	mg/l	IS3025(P-27)1986	<0.01	<0.01	<0.05	No Relaxation
32	Lead as Pb	mg/l	IS3025(P-47)1994	<0.01	<0.01	<0.01	No Relaxation
33	Zinc as Zn	mg/l	IS3025(P-49)1994	0.04	0.06	<5.0	<15
34	Hexavalent Chromium as Cr <sup>+6</sup>	mg/l	IS3025(P-52)2003	<0.05	<0.05	<0.05	<1.0
35	Silica as SiO <sub>2</sub>	mg/l	IS3025(P-35)1988	5.3	4.8	--	--
36	Pesticides	mg/l	As per STP	<0.01	<0.01	--	No Relaxation
37	Total Coliform	Per/100 ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml
38	E-Coli	Per/100 ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml

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LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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# SPECTRA ENVIROTECH PVT LTD

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline: Chemical**

**Group: Water**

**Product: Surface Water**

**Location-1: Surface Water – Pynampuram Village (SW-1)**

**Location-2: Surface Water – Nelaturu Village (SW-2)**

**Date of Monitoring: 23.11.2023**

**Sample Registration Date: 24.11.2023**

**Analysis Starting Date: 24.11.2023**

**Analysis Completed Date: 30.11.2023**

**Issue Date: 01.12.2023**

**Lab Ref: SEPL/ES/SEILEILP/11-23/0004**

**Sample Collected By: Ganesh**

## TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				SW-1	SW-2	ACCEPTABLE	PERMISSIBLE
1	pH	--	IS3025(P-11)2021	7.2	7.4	6.5- 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.0	1.0	1.0	5.0
3	Taste	--	IS-3025(P-8)	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	--	IS-3025(P-5)	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	IS3025(P-10)1984	0.3	0.4	1.0	5.0
6	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,235	1,317	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	862	935	500	2000
8	Total Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	151	144	200	600
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	174	167	200	600
10	P- Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	Nil	Nil	--	--
11	Calcium as Ca	mg/l	IS3025(P-40)1991	35.7	38.4	75	200
12	Magnesium as Mg	mg/l	IS3025(P-40)1991	11.8	17.5	30	100
13	Free Residual Chlorine	mg/l	IS3025(P-26)1986	0.2	0.3	0.2	No Relaxation
14	Boron as B	mg/l	IS3025(P-57)2021	<0.001	<0.001	0.5	1.0
15	Sodium as Na	mg/l	IS3025(P-45)1993	151	148	--	--

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# SPECTRA ENVIROTECH PVT LTD

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				SW-1	SW-2	ACCEPTABLE	PERMISSIBLE
16	Potassium as K	mg/l	IS3025(P-45)1993	18	13	--	--
17	Chloride as Cl	mg/l	IS3025(P-32)1988	183	171	250	1000
18	Sulphates as SO <sub>4</sub>	mg/l	IS3025(P-24)1986	54.4	53.7	200	400
19	Nitrates as NO <sub>3</sub>	mg/l	IS3025(P-34)1988	21.6	22.8	45	No Relaxation
20	Anionic Detergents as MBAS	mg/l	Annex K of IS 13428	<0.1	<0.1	<0.2	<1.0
21	Mineral Oil	mg/l	IS 3025(Pt-39)	<0.5	<0.5	<0.5	No Relaxation
22	Iron as Fe	mg/l	IS3025(P-53)2003	0.18	0.14	<0.3	No Relaxation
23	Fluoride as F	mg/l	IS3025(P-60)2008	0.65	0.45	<1.0	<1.5
24	Copper as Cu	mg/l	IS3025(P-42)1992	0.04	0.03	<0.05	<1.5
25	Manganese as Mn	mg/l	IS3025(P-59)2006	<0.1	<0.1	<0.1	<0.3
26	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	mg/l	IS3025(P-43)1992	<0.001	<0.001	<0.001	<0.002
27	Cadmium as Cd	mg/l	IS3025(P-41)1992	<0.001	<0.001	<0.003	No Relaxation
28	Mercury as Hg	mg/l	IS3025(P-48)1994	<0.001	<0.001	<0.001	No Relaxation
29	Selenium as Se	mg/l	IS3025(P-56)2003	<0.01	<0.01	<0.01	No Relaxation
30	Total Arsenic as As	mg/l	IS3025(P-37)1988	<0.01	<0.01	<0.01	<0.20
31	Cyanide as CN	mg/l	IS3025(P-27)1986	<0.01	<0.01	<0.05	No Relaxation
32	Lead as Pb	mg/l	IS3025(P-47)1994	<0.01	<0.01	<0.01	No Relaxation
33	Zinc as Zn	mg/l	IS3025(P-49)1994	<5.0	<5.0	<5.0	<15
34	Hexavalent Chromium as Cr <sup>+6</sup>	mg/l	IS3025(P-52)2003	<0.05	<0.05	<0.05	<1.0
35	Silica as SiO <sub>2</sub>	mg/l	IS3025(P-35)1988	4.7	3.3	--	--
36	Pesticides	mg/l	As per STP	<0.01	<0.01	--	No Relaxation
37	E-Coli	Per/100 ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml
38	Total Coliform	Per/100 ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml

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LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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# SPECTRA ENVIROTECH PVT LTD

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline: Chemical**

**Group: Water**

**Product: Ground Water**

**Location-1: Ground Water – Nelaturu Village (GW-1)**

**Location-2: Ground Water – Pynampuram Village (GW-2)**

**Date of Monitoring: 20.02.2024**

**Sample Registration Date: 21.02.2024**

**Analysis Starting Date: 21.02.2024**

**Analysis Completed Date: 27.02.2024**

**Issue Date: 27.02.2024**

**Lab Ref: SEPL/ES/SEILEILP/02-24/0001**

**Sample Collected By: Ganesh**

## TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				GW-1	GW-2	ACCEPTABLE	PERMISSIBLE
1	pH	--	IS3025(P-11)2021	7.8	7.5	6.5- 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.0	1.0	1.0	5.0
3	Taste	--	IS-3025(P-8)	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	--	IS-3025(P-5)	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	IS3025(P-10)1984	1.00	1.00	1.0	5.0
6	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,674	1,446	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	1033	999	500	2000
8	Total Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	191	193	200	600
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	243	249	200	600
10	P- Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	Nil	Nil	--	--
11	Calcium as Ca	mg/l	IS3025(P-40)1991	39.6	61.7	75	200
12	Magnesium as Mg	mg/l	IS3025(P-40)1991	18.9	18.2	30	100
13	Free Residual Chlorine	mg/l	IS3025(P-26)1986	0.13	0.17	0.2	No Relaxation
14	Boron as B	mg/l	IS3025(P-57)2021	0.02	0.03	0.5	1.0
15	Sodium as Na	mg/l	IS3025(P-45)1993	161	172	--	--

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**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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# SPECTRA ENVIROTECH PVT LTD

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				GW-1	GW-2	ACCEPTABLE	PERMISSIBLE
16	Potassium as K	mg/l	IS3025(P-45)1993	39	53	--	--
17	Chloride as Cl	mg/l	IS3025(P-32)1988	132	139	250	1000
18	Sulphates as SO <sub>4</sub>	mg/l	IS3025(P-24)1986	90.3	87.1	200	400
19	Nitrates as NO <sub>3</sub>	mg/l	IS3025(P-34)1988	26.8	33.7	45	No Relaxation
20	Anionic Detergents as MBAS	mg/l	Annex K of IS 13428	<0.1	<0.1	<0.2	<1.0
21	Mineral Oil	mg/l	IS 3025(Pt-39)	<0.5	<0.5	<0.5	No Relaxation
22	Iron as Fe	mg/l	IS3025(P-53)2003	0.15	0.21	<0.3	No Relaxation
23	Fluoride as F	mg/l	IS3025(P-60)2008	0.70	0.64	<1.0	<1.5
24	Copper as Cu	mg/l	IS3025(P-42)1992	0.02	0.01	<0.05	<1.5
25	Manganese as Mn	mg/l	IS3025(P-59)2006	<0.1	<0.1	<0.1	<0.3
26	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	mg/l	IS3025(P-43)1992	<0.001	<0.001	<0.001	<0.002
27	Cadmium as Cd	mg/l	IS3025(P-41)1992	<0.001	<0.001	<0.003	No Relaxation
28	Mercury as Hg	mg/l	IS3025(P-48)1994	<0.001	<0.001	<0.001	No Relaxation
29	Selenium as Se	mg/l	IS3025(P-56)2003	<0.01	<0.01	<0.01	No Relaxation
30	Total Arsenic as As	mg/l	IS3025(P-37)1988	<0.01	<0.01	<0.01	<0.20
31	Cyanide as CN	mg/l	IS3025(P-27)1986	<0.01	<0.01	<0.05	No Relaxation
32	Lead as Pb	mg/l	IS3025(P-47)1994	<0.01	<0.01	<0.01	No Relaxation
33	Zinc as Zn	mg/l	IS3025(P-49)1994	0.03	0.02	<5.0	<15
34	Hexavalent Chromium as Cr <sup>+6</sup>	mg/l	IS3025(P-52)2003	<0.02	<0.05	<0.05	<1.0
35	Silica as SiO <sub>2</sub>	mg/l	IS3025(P-35)1988	5.5	5.3	--	--
36	Pesticides	mg/l	As per STP	<0.01	<0.01	--	No Relaxation
37	E-Coli	Per/ 100 ml	ISO 9308-1	Absent	Absent	Absent/ 100 ml	Absent/ 100 ml
38	Total Coliform	Per/ 100 ml	ISO 9308-1	Absent	Absent	Absent/ 100 ml	Absent/ 100 ml

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LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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# SPECTRA ENVIROTECH PVT LTD

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline: Chemical**

**Group: Water**

**Product: Ground Water**

**Location-3: Ground Water – Nelaturupalem Village (GW-3)**

**Location-4: Ground Water – Musunurivaripalem Village (GW-4)**

**Date of Monitoring: 20.02.2024**

**Sample Registration Date: 21.02.2024**

**Analysis Starting Date: 21.02.2024**

**Analysis Completed Date: 27.02.2024**

**Issue Date: 27.02.2024**

**Lab Ref: SEPL/ES/SEILEILP/02-24/0002**

**Sample Collected By: Ganesh**

## TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				GW-3	GW-4	ACCEPTABLE	PERMISSIBLE
1	pH	--	IS3025(P-11)2021	7.5	7.6	6.5- 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.0	1.0	1.0	5.0
3	Taste	--	IS-3025(P-8)	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	--	IS-3025(P-5)	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	IS3025(P-10)1984	1.0	1.0	1.0	5.0
6	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,652	1,526	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	1,163	1,074	500	2000
8	Total Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	263	238	200	600
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	242	231	200	600
10	P- Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	Nil	Nil	--	--
11	Calcium as Ca	mg/l	IS3025(P-40)1991	56.3	57.6	75	200
12	Magnesium as Mg	mg/l	IS3025(P-40)1991	19.9	26.2	30	100
13	Free Residual Chlorine	mg/l	IS3025(P-26)1986	<0.1	<0.1	0.2	No Relaxation
14	Boron as B	mg/l	IS3025(P-57)2021	0.42	0.29	0.5	1.0
15	Sodium as Na	mg/l	IS3025(P-45)1993	152	165	174	182

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**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				GW-3	GW-4	ACCEPTABLE	PERMISSIBLE
16	Potassium as K	mg/l	IS3025(P-45)1993	31	29	--	--
17	Chloride as Cl	mg/l	IS3025(P-32)1988	136	152	250	1000
18	Sulphates as SO <sub>4</sub>	mg/l	IS3025(P-24)1986	76.5	88.7	200	400
19	Nitrates as NO <sub>3</sub>	mg/l	IS3025(P-34)1988	36.8	29.0	45	No Relaxation
20	Anionic Detergents as MBAS	mg/l	Annex K of IS 13428	<0.1	<0.1	<0.2	<1.0
21	Mineral Oil	mg/l	IS 3025(Pt-39)	<0.5	<0.5	<0.5	No Relaxation
22	Iron as Fe	mg/l	IS3025(P-53)2003	0.02	0.05	<0.3	No Relaxation
23	Fluoride as F	mg/l	IS3025(P-60)2008	0.31	0.63	<1.0	<1.5
24	Copper as Cu	mg/l	IS3025(P-42)1992	0.03	0.02	<0.05	<1.5
25	Manganese as Mn	mg/l	IS3025(P-59)2006	<0.1	<0.1	<0.1	<0.3
26	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	mg/l	IS3025(P-43)1992	<0.001	<0.001	<0.001	<0.002
27	Cadmium as Cd	mg/l	IS3025(P-41)1992	<0.001	<0.001	<0.003	No Relaxation
28	Mercury as Hg	mg/l	IS3025(P-48)1994	<0.001	<0.001	<0.001	No Relaxation
29	Selenium as Se	mg/l	IS3025(P-56)2003	<0.01	<0.01	<0.01	No Relaxation
30	Total Arsenic as As	mg/l	IS3025(P-37)1988	<0.01	<0.01	<0.01	<0.20
31	Cyanide as CN	mg/l	IS3025(P-27)1986	<0.01	<0.01	<0.05	No Relaxation
32	Lead as Pb	mg/l	IS3025(P-47)1994	<0.01	<0.01	<0.01	No Relaxation
33	Zinc as Zn	mg/l	IS3025(P-49)1994	0.02	0.03	<5.0	<15
34	Hexavalent Chromium as Cr <sup>+6</sup>	mg/l	IS3025(P-52)2003	<0.05	<0.05	<0.05	<1.0
35	Silica as SiO <sub>2</sub>	mg/l	IS3025(P-35)1988	6.9	6.7	--	--
36	Pesticides	mg/l	As per STP	<0.01	<0.01	--	No Relaxation
37	E-Coli	Per/ 100 ml	ISO 9308-1	Absent	Absent	Absent/ 100 ml	Absent/ 100 ml
38	Total Coliform	Per/ 100 ml	ISO 9308-1	Absent	Absent	Absent/ 100 ml	Absent/ 100 ml

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LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline: Chemical**

**Group: Water**

**Product: Ground Water**

**Location-5: Ground Water – Amudalapadu Village (GW-5)**

**Location-6: Ground Water – Kothapalem Village (GW-6)**

**Date of Monitoring: 20.02.2024**

**Sample Registration Date: 21.02.2024**

**Analysis Starting Date: 21.02.2024**

**Analysis Completed Date: 27.02.2024**

**Issue Date: 27.02.2024**

**Lab Ref: SEPL/ES/SEILEILP/02-24/0003**

**Sample Collected By: Ganesh**

## TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				GW-5	GW-6	ACCEPTABLE	PERMISSIBLE
1	pH	--	IS3025(P-11)2021	7.3	6.9	6.5- 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.0	1.0	1.0	5.0
3	Taste	--	IS-3025(P-8)	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	--	IS-3025(P-5)	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	IS3025(P-10)1984	0.6	0.8	1.0	5.0
6	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,325	1,293	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	946	994	500	2000
8	Total Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	188	177	200	600
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	164	169	200	600
10	P- Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	Nil	Nil	--	--
11	Calcium as Ca	mg/l	IS3025(P-40)1991	42.8	53.4	75	200
12	Magnesium as Mg	mg/l	IS3025(P-40)1991	24.1	22.5	30	100
13	Free Residual Chlorine	mg/l	IS3025(P-26)1986	0.16	0.18	0.2	No Relaxation
14	Boron as B	mg/l	IS3025(P-57)2021	0.03	0.04	0.5	1.0
15	Sodium as Na	mg/l	IS3025(P-45)1993	148	143	--	--

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**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				GW-5	GW-6	ACCEPTABLE	PERMISSIBLE
16	Potassium as K	mg/l	IS3025(P-45)1993	20	16	--	--
17	Chloride as Cl	mg/l	IS3025(P-32)1988	172	184	250	1000
18	Sulphates as SO <sub>4</sub>	mg/l	IS3025(P-24)1986	76.3	69.8	200	400
19	Nitrates as NO <sub>3</sub>	mg/l	IS3025(P-34)1988	33.8	28.3	45	No Relaxation
20	Anionic Detergents as MBAS	mg/l	Annex K of IS 13428	<0.1	<0.1	<0.2	<1.0
21	Mineral Oil	mg/l	IS 3025(Pt-39)	<0.5	<0.5	<0.5	No Relaxation
22	Iron as Fe	mg/l	IS3025(P-53)2003	0.05	0.04	<0.3	No Relaxation
23	Fluoride as F	mg/l	IS3025(P-60)2008	0.69	0.60	<1.0	<1.5
24	Copper as Cu	mg/l	IS3025(P-42)1992	0.04	0.01	<0.05	<1.5
25	Manganese as Mn	mg/l	IS3025(P-59)2006	<0.1	<0.1	<0.1	<0.3
26	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	mg/l	IS3025(P-43)1992	<0.001	<0.001	<0.001	<0.002
27	Cadmium as Cd	mg/l	IS3025(P-41)1992	<0.001	<0.001	<0.003	No Relaxation
28	Mercury as Hg	mg/l	IS3025(P-48)1994	<0.001	<0.001	<0.001	No Relaxation
29	Selenium as Se	mg/l	IS3025(P-56)2003	<0.01	<0.01	<0.01	No Relaxation
30	Total Arsenic as As	mg/l	IS3025(P-37)1988	<0.01	<0.01	<0.01	<0.20
31	Cyanide as CN	mg/l	IS3025(P-27)1986	<0.01	<0.01	<0.05	No Relaxation
32	Lead as Pb	mg/l	IS3025(P-47)1994	<0.01	<0.01	<0.01	No Relaxation
33	Zinc as Zn	mg/l	IS3025(P-49)1994	0.04	0.05	<5.0	<15
34	Hexavalent Chromium as Cr <sup>+6</sup>	mg/l	IS3025(P-52)2003	<0.05	<0.05	<0.05	<1.0
35	Silica as SiO <sub>2</sub>	mg/l	IS3025(P-35)1988	5.6	5.1	--	--
36	Pesticides	mg/l	As per STP	<0.01	<0.01	--	No Relaxation
37	Total Coliform	Per/100 ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml
38	E-Coli	Per/100 ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml

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LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline: Chemical**

**Group: Water**

**Product: Surface Water**

**Location-1: Surface Water – Pynampuram Village (SW-1)**

**Location-2: Surface Water – Nelaturu Village (SW-2)**

**Date of Monitoring: 20.02.2024**

**Sample Registration Date: 21.02.2024**

**Analysis Starting Date: 21.02.2024**

**Analysis Completed Date: 27.02.2024**

**Issue Date: 27.02.2024**

**Lab Ref: SEPL/ES/SEILEILP/02-24/0004**

**Sample Collected By: Ganesh**

## TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				SW-1	SW-2	ACCEPTABLE	PERMISSIBLE
1	pH	--	IS3025(P-11)2021	7.3	7.5	6.5- 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.0	1.0	1.0	5.0
3	Taste	--	IS-3025(P-8)	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	--	IS-3025(P-5)	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	IS3025(P-10)1984	0.5	0.6	1.0	5.0
6	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,249	1,328	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	872	743	500	2000
8	Total Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	158	149	200	600
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	183	172	200	600
10	P- Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	Nil	Nil	--	--
11	Calcium as Ca	mg/l	IS3025(P-40)1991	36.4	40.2	75	200
12	Magnesium as Mg	mg/l	IS3025(P-40)1991	12.6	19.6	30	100
13	Free Residual Chlorine	mg/l	IS3025(P-26)1986	0.1	0.4	0.2	No Relaxation
14	Boron as B	mg/l	IS3025(P-57)2021	<0.001	<0.001	0.5	1.0
15	Sodium as Na	mg/l	IS3025(P-45)1993	158	152	--	--

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**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				SW-1	SW-2	ACCEPTABLE	PERMISSIBLE
16	Potassium as K	mg/l	IS3025(P-45)1993	15	10	--	--
17	Chloride as Cl	mg/l	IS3025(P-32)1988	177	165	250	1000
18	Sulphates as SO <sub>4</sub>	mg/l	IS3025(P-24)1986	53.2	50.1	200	400
19	Nitrates as NO <sub>3</sub>	mg/l	IS3025(P-34)1988	20.2	21.8	45	No Relaxation
20	Anionic Detergents as MBAS	mg/l	Annex K of IS 13428	<0.1	<0.1	<0.2	<1.0
21	Mineral Oil	mg/l	IS 3025(Pt-39)	<0.5	<0.5	<0.5	No Relaxation
22	Iron as Fe	mg/l	IS3025(P-53)2003	0.02	0.03	<0.3	No Relaxation
23	Fluoride as F	mg/l	IS3025(P-60)2008	0.69	0.36	<1.0	<1.5
24	Copper as Cu	mg/l	IS3025(P-42)1992	0.02	0.04	<0.05	<1.5
25	Manganese as Mn	mg/l	IS3025(P-59)2006	<0.1	<0.1	<0.1	<0.3
26	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	mg/l	IS3025(P-43)1992	<0.001	<0.001	<0.001	<0.002
27	Cadmium as Cd	mg/l	IS3025(P-41)1992	<0.001	<0.001	<0.003	No Relaxation
28	Mercury as Hg	mg/l	IS3025(P-48)1994	<0.001	<0.001	<0.001	No Relaxation
29	Selenium as Se	mg/l	IS3025(P-56)2003	<0.01	<0.01	<0.01	No Relaxation
30	Total Arsenic as As	mg/l	IS3025(P-37)1988	<0.01	<0.01	<0.01	<0.20
31	Cyanide as CN	mg/l	IS3025(P-27)1986	<0.01	<0.01	<0.05	No Relaxation
32	Lead as Pb	mg/l	IS3025(P-47)1994	<0.01	<0.01	<0.01	No Relaxation
33	Zinc as Zn	mg/l	IS3025(P-49)1994	<5.0	<5.0	<5.0	<15
34	Hexavalent Chromium as Cr <sup>+6</sup>	mg/l	IS3025(P-52)2003	<0.05	<0.05	<0.05	<1.0
35	Silica as SiO <sub>2</sub>	mg/l	IS3025(P-35)1988	4.9	3.5	--	--
36	Pesticides	mg/l	As per STP	<0.01	<0.01	--	No Relaxation
37	E-Coli	Per/100 ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml
38	Total Coliform	Per/100 ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml

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LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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# SPECTRA ENVIROTECH PVT LTD

Accredited by MoEF & Accredited by NABL (TC-9903)

Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline: Chemical**

**Group: Water**

**Product: Drinking Water**

**Date of Monitoring: 23.11.2023**

**Sample Collected By: Ganesh**

**Sample Registration Date: 24.11.2023**

**Analysis Starting Date: 24.11.2023**

**Analysis Completed Date: 30.11.2023**

**Issue Date: 01.12.2023**

**Lab Ref: SEPL/ES/SEILEILP/11-23/0001**

## TEST RESULT

S. NO.	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	ACCEPTABLE LIMITS AS PER IS: 10500:2012	PERMISSIBLE LIMITS AS PER IS 10500:2012
<b>Organoleptic &amp; Physical Parameters</b>						
1	pH	IS3025(P-11)2021	--	7.6	6.5-8.5	No relaxation
2	Color	IS3025(P-04)2021	Hazen	1.3	5.0 Max	15 Max
3	Electric Conductivity	IS3025(P-14)2013	µs/cm	109	--	--
4	Turbidity	IS3025(P-10)1984	NTU	<0.1	1.0 Max	5.0 Max
5	Total Dissolved Solids	IS3025(P-16)1984	mg/l	89	500 Max	2000 Max.
<b>General Parameters Concerning Substances Undesirable in Excessive Amounts</b>						
6	Aluminum as Al	IS3025(P-55)2003	mg/l	< 0.01	0.03 Max	0.2 Max.
7	Ammonia as N	IS3025(P-34)1988	mg/l	< 0.1	0.5 Max	No relaxation
8	Boron as B	IS3025(P-57)2021	mg/l	< 0.01	0.5 Max	1.0 Max
9	Barium as Ba	APHA-3120B	mg/l	< 0.01	0.7 Max	No relaxation
10	Calcium as Ca	IS3025(P-40)1991	mg/l	8.7	75 Max	200 Max
11	Chloramines	IS: 3025(Part-26)	mg/l	< 0.08	4.0 Max	No relaxation
12	Chlorides as Cl	IS3025(P-32)1988	mg/l	18	250 Max	1000 Max
13	Copper as Cu	IS3025(P-42)1992	mg/l	<0.01	0.05 Max	1.5 Max
14	Fluoride as F	IS3025(P-60)2008	mg/l	<0.1	1.0 Max	1.5 Max
15	Residual Free Chlorine	IS3025(P-26)1986	mg/l	< 0.1	0.2 Max	1.0 Max
16	Iron as Fe	IS3025(P-53)2003	mg/l	< 0.01	0.3 Max	No relaxation

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

S. NO.	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	ACCEPTABLE LIMITS AS PER IS: 10500:2012	PERMISSIBLE LIMITS AS PER IS 10500:2012
17	Magnesium as Mg	IS3025(P-40)1991	mg/l	0.9	30 Max	100 Max
18	Manganese as Mn	IS3025(P-59)2006	mg/l	<0.01	0.1 Max	0.3 Max
19	Nitrates as NO <sub>3</sub>	IS3025(P-34)1988	mg/l	3.8	45 Max	No relaxation
20	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	IS3025(P-43)1992	mg/l	< 0.001	0.001 Max	0.002 Max
21	Selenium as Se	IS3025(P-56)2003	mg/l	< 0.01	0.01 Max	No relaxation
22	Silver as Ag	APHA-3120B	mg/l	< 0.01	0.1 Max	No relaxation
23	Sulphates as SO <sub>4</sub>	IS3025(P-24)1986	mg/l	5.7	200 Max	400 Max
24	Sulphide as H <sub>2</sub> S	IS-3025(Pt-29)	mg/l	< 0.05	0.05 Max	No relaxation
25	Total Alkalinity as CaCO <sub>3</sub>	IS3025(P-23)1986	mg/l	24	200 Max	600 Max
26	Total Hardness as CaCO <sub>3</sub>	IS3025(P-23)1986	mg/l	38	200 Max	600 Max
27	Zinc as Zn	IS3025(P-49)1994	mg/l	0.04	5.0 Max	15 Max
<b>Parameters Concerning Toxic Substances</b>						
28	Cadmium as Cd	IS3025(P-41)1992	mg/l	0.002	0.003 Max	No relaxation
29	Lead as Pb	IS3025(P-47)1994	mg/l	< 0.01	0.01 Max	No relaxation
30	Mercury as Hg	IS3025(P-48)1994	mg/l	< 0.001	0.001 Max	No relaxation
31	Nickel as Ni	IS3025(P-54)	mg/l	< 0.01	0.02 Max	No relaxation
32	Arsenic as As	IS3025(P-37)1988	mg/l	< 0.01	0.01 Max	No relaxation
33	Chromium as Cr	IS3025(P-52)2003	mg/l	< 0.05	0.05 Max	No relaxation

Note: IS- Indian Standard, APHA-American Public Health Association

Detection limit: 0.00001 mg/l for Pesticides, PCB's, PAH & 0.0001 mg/l for Trihalomethanes, to be applicable only when water is chlorinated

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline: Chemical**

**Group: Water**

**Product: Drinking Water**

**Date of Monitoring: 23.11.2023**

**Sample Collected By: Ganesh**

**Sample Registration Date: 24.11.2023**

**Analysis Starting Date: 24.11.2023**

**Analysis Completed Date: 30.11.2023**

**Issue Date: 01.12.2023**

**Lab Ref: SEPL/ES/SEILEILP/11-23/0002**

## TEST RESULT

S. NO.	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	ACCEPTABLE LIMITS AS PER IS: 10500:2012	PERMISSIBLE LIMITS AS PER IS 10500:2012
<b>Organoleptic &amp; Physical Parameters</b>						
1	Odor	IS-3025(Pt-5)	--	Agreeable	Agreeable	Agreeable
2	Taste	IS-3025(Pt-8)	--	Agreeable	Agreeable	Agreeable
<b>General Parameters Concerning Substances Undesirable in Excessive Amounts</b>						
3	Anionic detergents as MBAS	Annex K of IS 13428	mg/l	<0.1	0.2 Max	1.0 Max
4	Mineral Oil	IS-3025(Pt-39)	mg/l	<0.01	0.5 Max	No relaxation
<b>Parameters Concerning Toxic Substances</b>						
5	Cyanide as CN	IS-3025(Pt-27)	mg/l	<0.01	0.05 Max	No relaxation
6	Molybdenum as Mo	APHA-3120B	mg/l	<0.01	0.07 Max	No relaxation

**Note:** IS-Indian Standard, APHA-American Public Health Association

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## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline: Chemical**

**Group: Water**

**Product: Drinking Water**

**Date of Monitoring: 23.11.2023**

**Sample Collected By: Ganesh**

**Sample Registration Date: 24.11.2023**

**Analysis Starting Date: 24.11.2023**

**Analysis Completed Date: 30.11.2023**

**Issue Date: 01.12.2023**

**Lab Ref: SEPL/ES/SEILEILP/11-23/0003**

## TEST RESULT

S. NO.	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	ACCEPTABLE LIMITS AS PER IS: 10500:2012	PERMISSIBLE LIMITS AS PER IS 10500:2012
1	DDT	EPA 508	mg/l	ND	Not more than 0.0001	Not more than 0.0001
	a). o,p'-DDT	-	-	-	-	-
	b). p,p'-DDT	-	-	-	-	-
	c). o,p'-DDE	-	-	-	-	-
	d). p,p'-DDE	-	-	-	-	-
e). o,p'-DDD	-	-	-	-	-	
2	BHC (HCH)	EPA 508	mg/l	ND	Not more than 0.0001	Not more than 0.0001
3	Endosulfan	EPA 508	mg/l	ND	Not more than 0.0001	Not more than 0.0001
4	Monocrotophos	EPA 8141A	mg/l	ND	Not more than 0.0001	Not more than 0.0001
5	Ethion	EPA 1657A	mg/l	ND	Not more than 0.0001	Not more than 0.0001
6	Chlorpyrifos	EPA 525A	mg/l	ND	Not more than 0.0001	Not more than 0.0001
	a) Phorate	-	-	-	-	-
	b) Phorate Sulphoxide	-	-	-	-	-
c) Phorate Sulphone	-	-	-	-	-	
7	2,4-D	EPA 515.1	mg/l	ND	Not more than 0.0001	Not more than 0.0001

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S. NO.	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	ACCEPTABLE LIMITS AS PER IS: 10500:2012	PERMISSIBLE LIMITS AS PER IS 10500:2012
8	Butachlor	EPA 525.2	mg/l	ND	Not more than 0.0001	Not more than 0.0001
9	Isoproturon	EPA 532	mg/l	ND	Not more than 0.0001	Not more than 0.0001
10	Alachlor	EPA 525.2	mg/l	ND	Not more than 0.0001	Not more than 0.0001
11	Atrazine	EPA 525.208	mg/l	ND	Not more than 0.0001	Not more than 0.0001
12	Methyl Parathion	EPA 8141A	mg/l	ND	Not more than 0.0001	Not more than 0.0001
	a) Methyl Parathion	-	-	-	-	-
	b) Methyl Paraaxon	-	-	-	-	-
13	Malathion	EPA 8141A	mg/l	ND	Not more than 0.0001	Not more than 0.0001
	a) Malathion	-	-	-	-	-
	b) Malaoxon	-	-	-	-	-
14	Aldrin	EPA 525.2	mg/l	ND	Not more than 0.0001	Not more than 0.0001
	a) Aldrin	-	-	-	-	-
	b) Dieldrin	-	-	-	-	-

Note: ND- Non-Detectable

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline: Chemical**

**Group: Water**

**Product: Drinking Water**

**Date of Monitoring: 23.11.2023**

**Sample Collected By: Ganesh**

**Sample Registration Date: 24.11.2023**

**Analysis Starting Date: 24.11.2023**

**Analysis Completed Date: 30.11.2023**

**Issue Date: 01.12.2023**

**Lab Ref: SEPL/ES/SEILEILP/11-23/0004**

## TEST RESULT

S. NO.	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	ACCEPTABLE LIMITS AS PER IS: 10500:2012	PERMISSIBLE LIMITS AS PER IS 10500:2012
<b>Microbiology Analysis</b>						
1	Total Bacterial Count at 36° C	ISO 6222	CFU/ml	10	--	--
2	Coli forms	ISO 9308-1	Per/100ml	Absent	Absent/100ml	Absent/100ml
3	Escherichia. coli	ISO 9308-1	Per/100ml	Absent	Absent/100ml	Absent/100ml

**Note: ISO-**International Organization for Standardization

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## TEST REPORT

ISSUED TO: <b>M/s. SEIL ENERGY INDIA LIMITED PROJECT-1</b> (2x660 MW Coal Based Thermal Power Plant), Near Pynampuram / Nelaturu (V), Muthukur (M), SPSR Nellore (Dist.) -524344.	
<b>Discipline: Chemical</b> <b>Group: Water</b> <b>Product: Drinking Water</b> <b>Date of Monitoring: 20.02.2024</b> <b>Sample Collected By: Ganesh</b>	<b>Sample Registration Date: 21.02.2024</b> <b>Analysis Starting Date: 21.02.2024</b> <b>Analysis Completed Date: 27.02.2024</b> <b>Issue Date: 27.02.2024</b> <b>Lab Ref: SEPL/ES/SEILEILP/02-24/0001</b>

## TEST RESULT

S. NO.	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	ACCEPTABLE LIMITS AS PER IS: 10500:2012	PERMISSIBLE LIMITS AS PER IS 10500:2012
<b>Organoleptic &amp; Physical Parameters</b>						
1	pH	IS3025(P-11)2021	--	7.82	6.5-8.5	No relaxation
2	Color	IS3025(P-04)2021	Hazen	1.5	5.0 Max	15 Max
3	Electric Conductivity	IS3025(P-14)2013	µs/cm	115	--	--
4	Turbidity	IS3025(P-10)1984	NTU	<0.1	1.0 Max	5.0 Max
5	Total Dissolved Solids	IS3025(P-16)1984	mg/l	93	500 Max	2000 Max.
<b>General Parameters Concerning Substances Undesirable in Excessive Amounts</b>						
6	Aluminum as Al	IS3025(P-55)2003	mg/l	< 0.01	0.03 Max	0.2 Max.
7	Ammonia as N	IS3025(P-34)1988	mg/l	< 0.1	0.5 Max	No relaxation
8	Boron as B	IS3025(P-57)2021	mg/l	< 0.01	0.5 Max	1.0 Max
9	Barium as Ba	APHA-3120B	mg/l	< 0.01	0.7 Max	No relaxation
10	Calcium as Ca	IS3025(P-40)1991	mg/l	8.9	75 Max	200 Max
11	Chloramines	IS: 3025(Part-26)	mg/l	< 0.08	4.0 Max	No relaxation
12	Chlorides as Cl	IS3025(P-32)1988	mg/l	21	250 Max	1000 Max
13	Copper as Cu	IS3025(P-42)1992	mg/l	<0.01	0.05 Max	1.5 Max
14	Fluoride as F	IS3025(P-60)2008	mg/l	<0.1	1.0 Max	1.5 Max
15	Residual Free Chlorine	IS3025(P-26)1986	mg/l	< 0.1	0.2 Max	1.0 Max

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S. NO.	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	ACCEPTABLE LIMITS AS PER IS: 10500:2012	PERMISSIBLE LIMITS AS PER IS 10500:2012
16	Iron as Fe	IS3025(P-53)2003	mg/l	< 0.01	0.3 Max	No relaxation
17	Magnesium as Mg	IS3025(P-40)1991	mg/l	0.12	30 Max	100 Max
18	Manganese as Mn	IS3025(P-59)2006	mg/l	<0.01	0.1 Max	0.3 Max
19	Nitrates as NO <sub>3</sub>	IS3025(P-34)1988	mg/l	4.2	45 Max	No relaxation
20	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	IS3025(P-43)1992	mg/l	< 0.001	0.001 Max	0.002 Max
21	Selenium as Se	IS3025(P-56)2003	mg/l	< 0.01	0.01 Max	No relaxation
22	Silver as Ag	APHA-3120B	mg/l	< 0.01	0.1 Max	No relaxation
23	Sulphates as SO <sub>4</sub>	IS3025(P-24)1986	mg/l	5.1	200 Max	400 Max
24	Sulphide as H <sub>2</sub> S	IS-3025(Pt-29)	mg/l	< 0.05	0.05 Max	No relaxation
25	Total Alkalinity as CaCO <sub>3</sub>	IS3025(P-23)1986	mg/l	27	200 Max	600 Max
26	Total Hardness as CaCO <sub>3</sub>	IS3025(P-23)1986	mg/l	42	200 Max	600 Max
27	Zinc as Zn	IS3025(P-49)1994	mg/l	0.06	5.0 Max	15 Max
<b>Parameters Concerning Toxic Substances</b>						
28	Cadmium as Cd	IS3025(P-41)1992	mg/l	0.001	0.003 Max	No relaxation
29	Lead as Pb	IS3025(P-47)1994	mg/l	< 0.01	0.01 Max	No relaxation
30	Mercury as Hg	IS3025(P-48)1994	mg/l	< 0.001	0.001 Max	No relaxation
31	Nickel as Ni	IS3025(P-54)	mg/l	< 0.01	0.02 Max	No relaxation
32	Arsenic as As	IS3025(P-37)1988	mg/l	< 0.01	0.01 Max	No relaxation
33	Chromium as Cr	IS3025(P-52)2003	mg/l	< 0.05	0.05 Max	No relaxation

Note: **IS**- Indian Standard, **APHA**-American Public Health Association

Detection limit: 0.00001 mg/l for Pesticides, PCB's, PAH & 0.0001 mg/l for Trihalomethanes, to be applicable only when water is chlorinated

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## TEST REPORT

ISSUED TO: <b>M/s. SEIL ENERGY INDIA LIMITED PROJECT-1</b> (2x660 MW Coal Based Thermal Power Plant), Near Pynampuram / Nelaturu (V), Muthukur (M), SPSR Nellore (Dist.) -524344.	
<b>Discipline: Chemical</b> <b>Group: Water</b> <b>Product: Drinking Water</b> <b>Date of Monitoring: 20.02.2024</b> <b>Sample Collected By: Ganesh</b>	<b>Sample Registration Date: 21.02.2024</b> <b>Analysis Starting Date: 21.02.2024</b> <b>Analysis Completed Date: 27.02.2024</b> <b>Issue Date: 27.02.2024</b> <b>Lab Ref: SEPL/ES/SEILEILP/02-24/0002</b>

## TEST RESULT

S. NO.	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	ACCEPTABLE LIMITS AS PER IS: 10500:2012	PERMISSIBLE LIMITS AS PER IS 10500:2012
<b>Organoleptic &amp; Physical Parameters</b>						
1	Odor	IS-3025(Pt-5)	--	Agreeable	Agreeable	Agreeable
2	Taste	IS-3025(Pt-8)	--	Agreeable	Agreeable	Agreeable
<b>General Parameters Concerning Substances Undesirable in Excessive Amounts</b>						
3	Anionic detergents as MBAS	Annex K of IS 13428	mg/l	<0.1	0.2 Max	1.0 Max
4	Mineral Oil	IS-3025(Pt-39)	mg/l	<0.01	0.5 Max	No relaxation
<b>Parameters Concerning Toxic Substances</b>						
5	Cyanide as CN	IS-3025(Pt-27)	mg/l	<0.01	0.05 Max	No relaxation
6	Molybdenum as Mo	APHA-3120B	mg/l	<0.01	0.07 Max	No relaxation

Note: IS-Indian Standard, APHA-American Public Health Association

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## TEST REPORT

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<b>Discipline: Chemical</b>  <b>Group: Water</b> <b>Product: Drinking Water</b> <b>Date of Monitoring: 20.02.2024</b> <b>Sample Collected By: Ganesh</b>	<b>Sample Registration Date: 21.02.2024</b> <b>Analysis Starting Date: 21.02.2024</b> <b>Analysis Completed Date: 27.02.2024</b> <b>Issue Date: 27.02.2024</b> <b>Lab Ref: SEPL/ES/SEILEILP/02-24/0003</b>

## TEST RESULT

S. NO.	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	ACCEPTABLE LIMITS AS PER IS: 10500:2012	PERMISSIBLE LIMITS AS PER IS 10500:2012
1	DDT	EPA 508	mg/l	ND	Not more than 0.0001	Not more than 0.0001
	a). o,p'-DDT	-	-	-	-	-
	b). p,p'-DDT	-	-	-	-	-
	c). o,p'-DDE	-	-	-	-	-
	d). p,p'-DDE	-	-	-	-	-
e). o,p'-DDD	-	-	-	-	-	
2	BHC (HCH)	EPA 508	mg/l	ND	Not more than 0.0001	Not more than 0.0001
3	Endosulfan	EPA 508	mg/l	ND	Not more than 0.0001	Not more than 0.0001
4	Monocrotophos	EPA 8141A	mg/l	ND	Not more than 0.0001	Not more than 0.0001
5	Ethion	EPA 1657A	mg/l	ND	Not more than 0.0001	Not more than 0.0001
6	Chlorpyrifos	EPA 525A	mg/l	ND	Not more than 0.0001	Not more than 0.0001
	a) Phorate	-	-	-	-	-
	b) Phorate Sulphoxide	-	-	-	-	-
	c) Phorate Sulphone	-	-	-	-	-
7	2,4-D	EPA 515.1	mg/l	ND	Not more than 0.0001	Not more than 0.0001

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

S. NO.	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	ACCEPTABLE LIMITS AS PER IS: 10500:2012	PERMISSIBLE LIMITS AS PER IS 10500:2012
8	Butachlor	EPA 525.2	mg/l	ND	Not more than 0.0001	Not more than 0.0001
9	Isoproturon	EPA 532	mg/l	ND	Not more than 0.0001	Not more than 0.0001
10	Alachlor	EPA 525.2	mg/l	ND	Not more than 0.0001	Not more than 0.0001
11	Atrazine	EPA 525.208	mg/l	ND	Not more than 0.0001	Not more than 0.0001
12	Methyl Parathion	EPA 8141A	mg/l	ND	Not more than 0.0001	Not more than 0.0001
	a) Methyl Parathion	-	-	-	-	-
	b) Methyl Paraaxon	-	-	-	-	-
13	Malathion	EPA 8141A	mg/l	ND	Not more than 0.0001	Not more than 0.0001
	a) Malathion	-	-	-	-	-
	b) Malaaxon	-	-	-	-	-
14	Aldrin	EPA 525.2	mg/l	ND	Not more than 0.0001	Not more than 0.0001
	a) Aldrin	-	-	-	-	-
	b) Dieldrin	-	-	-	-	-

Note: ND- Non-Detectable

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline: Chemical**

**Group: Water**

**Product: Drinking Water**

**Date of monitoring: 20.02.2024**

**Sample Collected By: Ganesh**

**Sample Registration Date: 21.02.2024**

**Analysis Starting Date: 21.02.2024**

**Analysis Completed Date: 27.02.2024**

**Issue Date: 27.02.2024**

**Lab Ref: SEPL/ES/SEILEILP/02-24/0004**

## TEST RESULT

S. NO.	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	ACCEPTABLE LIMITS AS PER IS: 10500:2012	PERMISSIBLE LIMITS AS PER IS 10500:2012
<b>Microbiology Analysis</b>						
1	Total Bacterial Count at 36° C	ISO 6222	CFU/ml	12	--	--
2	Coli forms	ISO 9308-1	Per/100ml	Absent	Absent/100ml	Absent/100ml
3	Escherichia. coli	ISO 9308-1	Per/100ml	Absent	Absent/100ml	Absent/100ml

**Note: ISO-International Organization for Standardization**

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## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline: Chemical**

**Group: Water**

**Product: Heavy Metal Analysis of Coal- November 2023**

**Sample Location: Coal Feeder#1**

**Date of Monitoring: 23.11.2023**

**Sample Collected By: Ganesh**

**Sample Registration Date: 24.11.2023**

**Analysis Starting Date: 24.11.2023**

**Analysis Completed Date: 30.11.2023**

**Issue Date: 01.12.2023**

**Lab Ref: SEPL/ES/SEILEILP/11-23/0001**

## TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	ppm	0.29	5.0
2	Mercury as Hg	USEPA-3050B Dec-1996(Rev.2)	ppm	<0.02	0.2
3	Chromium as Cr	USEPA-3050B Dec-1996(Rev.2)	ppm	1.35	5.0
4	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	ppm	0.38	5.0

**Note: USEPA-** United States Environmental Protection Agency

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## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline: Chemical**

**Group: Water**

**Product: Heavy Metal Analysis of Fly Ash- November 2023**

**Date of Monitoring: 23.11.2023**

**Sample Collected By: Ganesh**

**Sample Registration Date: 24.11.2023**

**Analysis Starting Date: 24.11.2023**

**Analysis Completed Date: 30.11.2023**

**Issue Date: 01.12.2023**

**Lab Ref: SEPL/ES/SEILEILP/11-23/0001**

## TEST RESULT

S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	Ppm	0.47	5.0
2	Mercury as Hg	USEPA-3050B Dec-1996(Rev.2)	Ppm	<0.05	0.2
3	Chromium as Cr	USEPA-3050B Dec-1996(Rev.2)	Ppm	0.33	5.0
4	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	Ppm	0.24	5.0

**USEPA-** United States Environmental Protection Agency

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## TEST REPORT

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Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline: Chemical**

**Group: Water**

**Product: Heavy Metal Analysis of Bottom Ash- November 2023**

**Date of Monitoring: 23.11.2023**

**Sample Collected By: Ganesh**

**Sample Registration Date: 24.11.2023**

**Analysis Starting Date: 24.11.2023**

**Analysis Completed Date: 30.11.2023**

**Issue Date: 01.12.2023**

**Lab Ref: SEPL/ES/SEILEILP/11-23/0002**

## TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1.	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	Ppm	0.35	5.0
2.	Mercury as Hg	USEPA-3050B Dec-1996(Rev.2)	Ppm	<0.02	0.2
3.	Chromium as Cr	USEPA-3050B Dec-1996(Rev.2)	ppm	0.76	5.0
4.	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	ppm	0.42	5.0

**USEPA-** United States Environmental Protection Agency

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## TEST REPORT

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**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline: Chemical**

**Group: Water**

**Product: Heavy Metal Analysis of Coal - February 2024**

**Sample Location: Coal Feeder#2**

**Date of Monitoring: 20.02.2024**

**Sample Collected By: Ganesh**

**Sample Registration Date: 21.02.2024**

**Analysis Starting Date: 21.02.2024**

**Analysis Completed Date: 27.02.2024**

**Issue Date: 28.02.2024**

**Lab Ref: SEPL/ES/SEILEILP/02-24/0001**

## TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	ppm	0.62	5.0
2	Mercury as Hg	USEPA-3050B Dec-1996(Rev.2)	ppm	<0.02	0.2
3	Chromium as Cr	USEPA-3050B Dec-1996(Rev.2)	ppm	1.47	5.0
4	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	ppm	0.23	5.0

**Note: USEPA-** United States Environmental Protection Agency

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## TEST REPORT

ISSUED TO:

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(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline: Chemical**

**Group: Water**

**Product: Heavy Metal Analysis of Fly Ash- February 2024**

**Date of Monitoring: 20.02.2024**

**Sample Collected By: Ganesh**

**Sample Registration Date: 21.02.2024**

**Analysis Starting Date: 21.02.2024**

**Analysis Completed Date: 27.02.2024**

**Issue Date: 27.02.2024**

**Lab Ref: SEPL/ES/SEILEILP/02-24/0001**

## TEST RESULT

S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	Ppm	0.51	5.0
2	Mercury as Hg	USEPA-3050B Dec-1996(Rev.2)	Ppm	<0.05	0.2
3	Chromium as Cr	USEPA-3050B Dec-1996(Rev.2)	Ppm	0.39	5.0
4	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	Ppm	0.28	5.0

**USEPA-** United States Environmental Protection Agency

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## TEST REPORT

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<b>Discipline: Chemical</b> <b>Group: Water</b> <b>Product: Heavy Metal Analysis of Bottom Ash- February 2024</b> <b>Date of Monitoring: 20.02.2024</b> <b>Sample Collected By: Ganesh</b>	<b>Sample Registration Date: 21.02.2024</b> <b>Analysis Starting Date: 21.02.2024</b> <b>Analysis Completed Date: 27.02.2024</b> <b>Issue Date: 27.02.2024</b> <b>Lab Ref: SEPL/ES/SEILEILP/02-24/0002</b>

## TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1.	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	Ppm	0.83	5.0
2.	Mercury as Hg	USEPA-3050B Dec-1996(Rev.2)	Ppm	<0.02	0.2
3.	Chromium as Cr	USEPA-3050B Dec-1996(Rev.2)	ppm	0.63	5.0
4.	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	ppm	0.59	5.0

**USEPA-** United States Environmental Protection Agency

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## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),

Near Pynampuram / Nelaturu (V), Muthukur (M),

SPSR Nellore (Dist.) -524344.

**Discipline: Chemical**

**Group: Water**

**Product Water**

**Location-1: Piezo Well No-1- Water –East Side (PW-1)**

**Location-2: Piezo Well No-2-Water–South Side (PW-2)**

**Date of Monitoring: 23.11.2023**

**Sample Registration Date: 24.11.2023**

**Analysis Starting Date: 24.11.2023**

**Analysis Completed Date: 30.11.2023**

**Issue Date: 01.12.2023**

**Lab Ref: SEPL/ES/SEILEILP/11-23/0001**

**Sample Collected By: Ganesh**

## TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				PW-1	PW-2	ACCEPTABLE	PERMISSIBLE
1	pH	--	IS3025(P-11)2021	6.9	7.5	6.5- 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.0	1.0	1.0	5.0
3	Turbidity	NTU	IS3025(P-10)1984	0.2	0.3	1.0	5.0
4	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,098	1,268	--	--
5	Temperature	°C	--	18.8	22.9	--	--
6	Total Suspended Solids	mg/l	IS3025(P-17)1984	17	21	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	481	426	500	2000
8	Total Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	174	183	200	600
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	158	165	200	600
10	Calcium as Ca	mg/l	IS3025(P-40)1991	36.7	32.8	75	200
11	Magnesium as Mg	mg/l	IS3025(P-40)1991	26.2	21.6	30	100
12	Free Residual Chlorine	mg/l	IS3025(P-26)1986	<0.1	<0.1	0.2	No Relaxation
13	Boron as B	mg/l	IS3025(P-57)2021	<0.1	<0.1	0.5	1.0
14	Calcium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	133	146	--	--
15	Magnesium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	88	95	--	--
16	Sodium as Na	mg/l	IS3025(P-45)1993	115	128	--	--
17	Potassium as K	mg/l	IS3025(P-45)1993	15	09	--	--
18	Chloride as Cl	mg/l	IS3025(P-32)1988	174	165	250	1000

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S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				PW-1	PW-2	ACCEPTABLE	PERMISSIBLE
19	Sulphates as SO <sub>4</sub>	mg/l	IS3025(P-24)1986	85.7	74.2	200	400
20	Nitrates as NO <sub>3</sub>	mg/l	IS3025(P-34)1988	22.4	22.4	45	No Relaxation
21	Chemical Oxygen Demand	mg/l	IS3025(P-58)2006	<5.0	<5.0	--	--
22	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	IS3025(P-44)1993	<3.0	<3.0	--	--
23	Iron as Fe	mg/l	IS3025(P-53)2003	0.04	0.08	<0.3	No Relaxation
24	Fluoride as F	mg/l	IS3025(P-60)2008	0.56	0.65	<1.0	<1.5
25	Copper as Cu	mg/l	IS3025(P-42)1992	<0.01	<0.01	<0.05	<1.5
26	Manganese as Mn	mg/l	IS3025(P-59)2006	<0.1	<0.1	<0.1	<0.3
27	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	mg/l	IS3025(P-43)1992	<0.001	<0.001	<0.001	<0.002
28	Cadmium as Cd	mg/l	IS3025(P-41)1992	<0.001	<0.001	<0.003	No Relaxation
29	Mercury as Hg	mg/l	IS3025(P-48)1994	<0.001	<0.001	<0.001	No Relaxation
30	Selenium as Se	mg/l	IS3025(P-56)2003	<0.01	<0.01	<0.01	No Relaxation
31	Total Arsenic as As	mg/l	IS3025(P-37)1988	<0.01	<0.01	<0.01	<0.20
32	Cyanide as CN	mg/l	IS3025(P-27)1986	<0.01	<0.01	<0.05	No Relaxation
33	Lead as Pb	mg/l	IS3025(P-47)1994	<0.01	<0.01	<0.01	No Relaxation
34	Zinc as Zn	mg/l	IS3025(P-49)1994	<0.01	<0.01	<5.0	<15
35	Total Chromium as Cr <sup>+6</sup>	mg/l	IS3025(P-52)2003	<0.01	<0.01	<0.05	<1.0
36	Aluminium as Al	mg/l	IS3025(P-55)2003	<0.01	<0.01	0.5	1.0
37	Pesticides	mg/l	As per STP	<0.01	<0.01	--	No Relaxation
38	Dissolved Oxygen	mg/l	IS3025(P-38)1989	4.2	5.5	--	--
39	Oil & Grease	mg/l	IS3025(P-39)2021	<1.0	<1.0	--	--
40	Phosphates as PO <sub>4</sub>	mg/l	IS3025(P-31)1998	<0.01	<0.01	--	--
41	Percent Sodium	%	IS3025(P-45)1993	34.6	24.2	--	--
42	E-Coli	Per/100ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml
43	Total Coliforms	Per/100ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml
44	Fecal Coliforms	MPN/100ml	IS-1622-1981	Absent	Absent	--	--

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),

Near Pynampuram / Nelaturu (V), Muthukur (M),

SPSR Nellore (Dist.) - 524344.

**Discipline: Chemical**

**Group: Water**

**Product Water**

**Location-3: Piezo Well No-3- Water –West Side (PW-3)**

**Location-4: Piezo Well No-4-Water– North Side (PW-4)**

**Date of Monitoring: 23.11.2023**

**Sample Registration Date: 24.11.2023**

**Analysis Starting Date: 24.11.2023**

**Analysis Completed Date: 30.11.2023**

**Issue Date: 01.12.2023**

**Lab Ref: SEPL/ES/SEILEILP/11-23/0002**

**Sample Collected By: Ganesh**

## TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				PW-3	PW-4	ACCEPTABLE	PERMISSIBLE
1	pH	--	IS3025(P-11)2021	7.4	7.8	6.5- 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.0	1.0	1.0	5.0
3	Turbidity	NTU	IS3025(P-10)1984	0.3	0.4	1.0	5.0
4	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,215	1,235	--	--
5	Temperature	°C	--	22.6	29.7	--	--
6	Total Suspended Solids	mg/l	IS3025(P-17)1984	28	31	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	523	456	500	2000
8	Total Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	187	175	200	600
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	188	192	200	600
10	Calcium as Ca	mg/l	IS3025(P-40)1991	54	61	75	200
11	Magnesium as Mg	mg/l	IS3025(P-40)1991	27	24	30	100
12	Free Residual Chlorine	mg/l	IS3025(P-26)1986	<0.1	<0.1	0.2	No Relaxation
13	Boron as B	mg/l	IS3025(P-57)2021	0.4	0.2	0.5	1.0
14	Calcium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	165	158	--	--
15	Magnesium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	119	94	--	--
16	Sodium as Na	mg/l	IS3025(P-45)1993	131	126	--	--
17	Potassium as K	mg/l	IS3025(P-45)1993	28	18	--	--
18	Chloride as Cl	mg/l	IS3025(P-32)1988	192	115	250	1000

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**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				PW-3	PW-4	ACCEPTABLE	PERMISSIBLE
19	Sulphates as SO <sub>4</sub>	mg/l	IS3025(P-24)1986	86.7	98.4	200	400
20	Nitrates as NO <sub>3</sub>	mg/l	IS3025(P-34)1988	29.4	24.7	45	No Relaxation
21	Chemical Oxygen Demand	mg/l	IS3025(P-58)2006	<5.0	<5.0	--	--
22	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	IS3025(P-44)1993	<3.0	<3.0	--	--
23	Iron as Fe	mg/l	IS3025(P-53)2003	0.14	0.24	<0.3	No Relaxation
24	Fluoride as F	mg/l	IS3025(P-60)2008	0.63	0.74	<1.0	<1.5
25	Copper as Cu	mg/l	IS3025(P-42)1992	<0.01	<0.01	<0.05	<1.5
26	Manganese as Mn	mg/l	IS3025(P-59)2006	<0.1	<0.1	<0.1	<0.3
27	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	mg/l	IS3025(P-43)1992	<0.001	<0.001	<0.001	<0.002
28	Cadmium as Cd	mg/l	IS3025(P-41)1992	<0.001	<0.001	<0.003	No Relaxation
29	Mercury as Hg	mg/l	IS3025(P-48)1994	<0.001	<0.001	<0.001	No Relaxation
30	Selenium as Se	mg/l	IS3025(P-56)2003	<0.01	<0.01	<0.01	No Relaxation
31	Total Arsenic as As	mg/l	IS3025(P-37)1988	<0.01	<0.01	<0.01	<0.20
32	Cyanide as CN	mg/l	IS3025(P-27)1986	<0.01	<0.01	<0.05	No Relaxation
33	Lead as Pb	mg/l	IS3025(P-47)1994	<0.01	<0.01	<0.01	No Relaxation
34	Zinc as Zn	mg/l	IS3025(P-49)1994	<0.01	<0.01	<5.0	<15
35	Total Chromium as Cr <sup>+6</sup>	mg/l	IS3025(P-52)2003	<0.01	<0.01	<0.05	<1.0
36	Aluminium as Al	mg/l	IS3025(P-55)2003	<0.01	<0.01	0.5	1.0
37	Pesticides	mg/l	As per STP	<0.01	<0.01	--	No Relaxation
38	Dissolved Oxygen	mg/l	IS3025(P-38)1989	4.7	5.2	--	--
39	Oil & Grease	mg/l	IS3025(P-39)2021	<1.0	<1.0	--	--
40	Phosphates as PO <sub>4</sub>	mg/l	IS3025(P-31)1998	<0.01	<0.01	--	--
41	Percent Sodium	%	IS3025(P-45)1993	24.8	27.1	--	--
42	E-Coli	Per/100ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml
43	Total Coliforms	Per/100ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml
44	Fecal Coliforms	MPN/100ml	IS-1622-1981	Absent	Absent	--	--

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LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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# SPECTRA ENVIROTECH PVT LTD

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),

Near Pynampuram / Nelaturu (V), Muthukur (M),

SPSR Nellore (Dist.) - 524344.

**Discipline: Chemical**

**Group: Water**

**Product Water**

**Location-5: Piezo Well No-5- Water –North West Side (PW-5)**

**Date of Monitoring: 23.11.2023**

**Sample Registration Date: 24.11.2023**

**Analysis Starting Date: 24.11.2023**

**Analysis Completed Date: 30.11.2023**

**Issue Date: 01.12.2023**

**Lab Ref: SEPL/ES/SEILEILP/11-23/0003**

**Sample Collected By: Ganesh**

## TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS	STANDARDS AS PER IS:10500	
				PW-5	ACCEPTABLE	PERMISSIBLE
1	pH	--	IS3025(P-11)2021	7.6	6.5- 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.0	1.0	5.0
3	Turbidity	NTU	IS3025(P-10)1984	0.2	1.0	5.0
4	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,267	--	--
5	Temperature	°C	--	21.6	--	--
6	Total Suspended Solids	mg/l	IS3025(P-17)1984	28	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	871	500	2000
8	Total Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	253	200	600
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	214	200	600
10	Calcium as Ca	mg/l	IS3025(P-40)1991	56	75	200
11	Magnesium as Mg	mg/l	IS3025(P-40)1991	18	30	100
12	Free Residual Chlorine	mg/l	IS3025(P-26)1986	<0.1	0.2	No Relaxation
13	Boron as B	mg/l	IS3025(P-57)2021	0.3	0.5	1.0
14	Calcium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	135	--	--
15	Magnesium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	72	--	--
16	Sodium as Na	mg/l	IS3025(P-45)1993	123	--	--
17	Potassium as K	mg/l	IS3025(P-45)1993	17	--	--
18	Chloride as Cl	mg/l	IS3025(P-32)1988	166	250	1000

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**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS	STANDARDS AS PER IS:10500	
				PW-5	ACCEPTABLE	PERMISSIBLE
19	Sulphates as SO <sub>4</sub>	mg/l	IS3025(P-24)1986	69.8	200	400
20	Nitrates as NO <sub>3</sub>	mg/l	IS3025(P-34)1988	33.2	45	No Relaxation
21	Chemical Oxygen Demand	mg/l	IS3025(P-58)2006	<5.0	--	--
22	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	IS3025(P-44)1993	<3.0	--	--
23	Iron as Fe	mg/l	IS3025(P-53)2003	0.24	<0.3	No Relaxation
24	Fluoride as F	mg/l	IS3025(P-60)2008	0.53	<1.0	<1.5
25	Copper as Cu	mg/l	IS3025(P-42)1992	<0.01	<0.05	<1.5
26	Manganese as Mn	mg/l	IS3025(P-59)2006	<0.1	<0.1	<0.3
27	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	mg/l	IS3025(P-43)1992	<0.001	<0.001	<0.002
28	Cadmium as Cd	mg/l	IS3025(P-41)1992	<0.001	<0.003	No Relaxation
29	Mercury as Hg	mg/l	IS3025(P-48)1994	<0.001	<0.001	No Relaxation
30	Selenium as Se	mg/l	IS3025(P-56)2003	<0.01	<0.01	No Relaxation
31	Total Arsenic as As	mg/l	IS3025(P-37)1988	<0.01	<0.01	<0.20
32	Cyanide as CN	mg/l	IS3025(P-27)1986	<0.01	<0.05	No Relaxation
33	Lead as Pb	mg/l	IS3025(P-47)1994	<0.01	<0.01	No Relaxation
34	Zinc as Zn	mg/l	IS3025(P-49)1994	<0.01	<5.0	<15
35	Total Chromium as Cr <sup>+6</sup>	mg/l	IS3025(P-52)2003	<0.01	<0.05	<1.0
36	Aluminium as Al	mg/l	IS3025(P-55)2003	<0.01	0.5	1.0
37	Pesticides	mg/l	As per STP	<0.01	--	No Relaxation
38	Dissolved Oxygen	mg/l	IS3025(P-38)1989	5.6	--	--
39	Oil & Grease	mg/l	IS3025(P-39)2021	<1.0	--	--
40	Phosphates as PO <sub>4</sub>	mg/l	IS3025(P-31)1998	<0.01	--	--
41	Percent Sodium	%	IS3025(P-45)1993	33.1	--	--
42	E-Coli	Per/100ml	ISO 9308-1	Absent	Absent/100 ml	Absent/100 ml
43	Total Coliforms	Per/100ml	ISO 9308-1	Absent	Absent/100 ml	Absent/100 ml
44	Fecal Coliforms	MPN/100ml	IS-1622-1981	Absent	--	--

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## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),

Near Pynampuram / Nelaturu (V), Muthukur (M),

SPSR Nellore (Dist.) -524344.

**Discipline: Chemical**

**Group: Water**

**Product Water**

**Location-1: Piezo Well No-1- Water –East Side (PW-1)**

**Location-2: Piezo Well No-2-Water–South Side (PW-2)**

**Date of Monitoring: 20.02.2024**

**Sample Registration Date: 21.02.2024**

**Analysis Starting Date: 21.02.2024**

**Analysis Completed Date: 27.02.2024**

**Issue Date: 27.02.2024**

**Lab Ref: SEPL/ES/SEILEILP/02-24/0001**

**Sample Collected By: Ganesh**

## TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				PW-1	PW-2	ACCEPTABLE	PERMISSIBLE
1	pH	--	IS3025(P-11)2021	6.9	7.7	6.5- 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.0	1.0	1.0	5.0
3	Turbidity	NTU	IS3025(P-10)1984	0.1	0.2	1.0	5.0
4	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,085	1,273	--	--
5	Temperature	°C	--	19.6	23.5	--	--
6	Total Suspended Solids	mg/l	IS3025(P-17)1984	19	23	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	488	436	500	2000
8	Total Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	185	189	200	600
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	163	174	200	600
10	Calcium as Ca	mg/l	IS3025(P-40)1991	37.4	33.6	75	200
11	Magnesium as Mg	mg/l	IS3025(P-40)1991	27.3	22.7	30	100
12	Free Residual Chlorine	mg/l	IS3025(P-26)1986	<0.1	<0.1	0.2	No Relaxation
13	Boron as B	mg/l	IS3025(P-57)2021	<0.1	<0.1	0.5	1.0
14	Calcium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	139	145	--	--
15	Magnesium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	92	99	--	--
16	Sodium as Na	mg/l	IS3025(P-45)1993	123	135	--	--
17	Potassium as K	mg/l	IS3025(P-45)1993	18	07	--	--
18	Chloride as Cl	mg/l	IS3025(P-32)1988	179	166	250	1000

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**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				PW-1	PW-2	ACCEPTABLE	PERMISSIBLE
19	Sulphates as SO <sub>4</sub>	mg/l	IS3025(P-24)1986	86.3	79.6	200	400
20	Nitrates as NO <sub>3</sub>	mg/l	IS3025(P-34)1988	23.7	20.4	45	No Relaxation
21	Chemical Oxygen Demand	mg/l	IS3025(P-58)2006	<5.0	<5.0	--	--
22	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	IS3025(P-44)1993	<3.0	<3.0	--	--
23	Iron as Fe	mg/l	IS3025(P-53)2003	0.06	0.05	<0.3	No Relaxation
24	Fluoride as F	mg/l	IS3025(P-60)2008	0.62	0.56	<1.0	<1.5
25	Copper as Cu	mg/l	IS3025(P-42)1992	<0.01	<0.01	<0.05	<1.5
26	Manganese as Mn	mg/l	IS3025(P-59)2006	<0.1	<0.1	<0.1	<0.3
27	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	mg/l	IS3025(P-43)1992	<0.001	<0.001	<0.001	<0.002
28	Cadmium as Cd	mg/l	IS3025(P-41)1992	<0.001	<0.001	<0.003	No Relaxation
29	Mercury as Hg	mg/l	IS3025(P-48)1994	<0.001	<0.001	<0.001	No Relaxation
30	Selenium as Se	mg/l	IS3025(P-56)2003	<0.01	<0.01	<0.01	No Relaxation
31	Total Arsenic as As	mg/l	IS3025(P-37)1988	<0.01	<0.01	<0.01	<0.20
32	Cyanide as CN	mg/l	IS3025(P-27)1986	<0.01	<0.01	<0.05	No Relaxation
33	Lead as Pb	mg/l	IS3025(P-47)1994	<0.01	<0.01	<0.01	No Relaxation
34	Zinc as Zn	mg/l	IS3025(P-49)1994	<0.01	<0.01	<5.0	<15
35	Total Chromium as Cr <sup>+6</sup>	mg/l	IS3025(P-52)2003	<0.01	<0.01	<0.05	<1.0
36	Aluminium as Al	mg/l	IS3025(P-55)2003	<0.01	<0.01	0.5	1.0
37	Pesticides	mg/l	As per STP	<0.01	<0.01	--	No Relaxation
38	Dissolved Oxygen	mg/l	IS3025(P-38)1989	4.5	5.1	--	--
39	Oil & Grease	mg/l	IS3025(P-39)2021	<1.0	<1.0	--	--
40	Phosphates as PO <sub>4</sub>	mg/l	IS3025(P-31)1998	<0.01	<0.01	--	--
41	Percent Sodium	%	IS3025(P-45)1993	35.2	22.6	--	--
42	E-Coli	Per/100ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml
43	Total Coliforms	Per/100ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml
44	Fecal Coliforms	MPN/100ml	IS-1622-1981	Absent	Absent	--	--

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## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),

Near Pynampuram / Nelaturu (V), Muthukur (M),

SPSR Nellore (Dist.) - 524344.

**Discipline: Chemical**

**Group: Water**

**Product Water**

**Location-3: Piezo Well No-3- Water –West Side (PW-3)**

**Location-4: Piezo Well No-4-Water– North Side (PW-4)**

**Date of Monitoring: 20.02.2024**

**Sample Registration Date: 21.02.2024**

**Analysis Starting Date: 21.02.2024**

**Analysis Completed Date: 27.02.2024**

**Issue Date: 27.02.2024**

**Lab Ref: SEPL/ES/SEILEILP/02-24/0002**

**Sample Collected By: Ganesh**

## TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				PW-3	PW-4	ACCEPTABLE	PERMISSIBLE
1	pH	--	IS3025(P-11)2021	7.6	7.5	6.5- 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.1	1.0	1.0	5.0
3	Turbidity	NTU	IS3025(P-10)1984	0.2	0.1	1.0	5.0
4	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,226	1,244	--	--
5	Temperature	°C	--	23.4	25.3	--	--
6	Total Suspended Solids	mg/l	IS3025(P-17)1984	31	30	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	534	463	500	2000
8	Total Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	192	182	200	600
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	196	190	200	600
10	Calcium as Ca	mg/l	IS3025(P-40)1991	57	63	75	200
11	Magnesium as Mg	mg/l	IS3025(P-40)1991	29	26	30	100
12	Free Residual Chlorine	mg/l	IS3025(P-26)1986	<0.1	<0.1	0.2	No Relaxation
13	Boron as B	mg/l	IS3025(P-57)2021	0.2	0.1	0.5	1.0
14	Calcium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	160	156	--	--
15	Magnesium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	123	98	--	--
16	Sodium as Na	mg/l	IS3025(P-45)1993	138	129	--	--
17	Potassium as K	mg/l	IS3025(P-45)1993	29	20	--	--
18	Chloride as Cl	mg/l	IS3025(P-32)1988	196	123	250	1000

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S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				PW-3	PW-4	ACCEPTABLE	PERMISSIBLE
19	Sulphates as SO <sub>4</sub>	mg/l	IS3025(P-24)1986	80.1	95.7	200	400
20	Nitrates as NO <sub>3</sub>	mg/l	IS3025(P-34)1988	25.2	21.3	45	No Relaxation
21	Chemical Oxygen Demand	mg/l	IS3025(P-58)2006	<5.0	<5.0	--	--
22	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	IS3025(P-44)1993	<3.0	<3.0	--	--
23	Iron as Fe	mg/l	IS3025(P-53)2003	0.23	0.20	<0.3	No Relaxation
24	Fluoride as F	mg/l	IS3025(P-60)2008	0.69	0.70	<1.0	<1.5
25	Copper as Cu	mg/l	IS3025(P-42)1992	<0.01	<0.01	<0.05	<1.5
26	Manganese as Mn	mg/l	IS3025(P-59)2006	<0.1	<0.1	<0.1	<0.3
27	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	mg/l	IS3025(P-43)1992	<0.001	<0.001	<0.001	<0.002
28	Cadmium as Cd	mg/l	IS3025(P-41)1992	<0.001	<0.001	<0.003	No Relaxation
29	Mercury as Hg	mg/l	IS3025(P-48)1994	<0.001	<0.001	<0.001	No Relaxation
30	Selenium as Se	mg/l	IS3025(P-56)2003	<0.01	<0.01	<0.01	No Relaxation
31	Total Arsenic as As	mg/l	IS3025(P-37)1988	<0.01	<0.01	<0.01	<0.20
32	Cyanide as CN	mg/l	IS3025(P-27)1986	<0.01	<0.01	<0.05	No Relaxation
33	Lead as Pb	mg/l	IS3025(P-47)1994	<0.01	<0.01	<0.01	No Relaxation
34	Zinc as Zn	mg/l	IS3025(P-49)1994	<0.01	<0.01	<5.0	<15
35	Total Chromium as Cr <sup>+6</sup>	mg/l	IS3025(P-52)2003	<0.01	<0.01	<0.05	<1.0
36	Aluminium as Al	mg/l	IS3025(P-55)2003	<0.01	<0.01	0.5	1.0
37	Pesticides	mg/l	As per STP	<0.01	<0.01	--	No Relaxation
38	Dissolved Oxygen	mg/l	IS3025(P-38)1989	4.5	5.4	--	--
39	Oil & Grease	mg/l	IS3025(P-39)2021	<1.0	<1.0	--	--
40	Phosphates as PO <sub>4</sub>	mg/l	IS3025(P-31)1998	<0.01	<0.01	--	--
41	Percent Sodium	%	IS3025(P-45)1993	23.2	29.6	--	--
42	E-Coli	Per/100ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml
43	Total Coliforms	Per/100ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml
44	Fecal Coliforms	MPN/100ml	IS-1622-1981	Absent	Absent	--	--

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Cell: 80199 55222, 111 | BRANCHES: VIJAYAWADA | HYDERABAD





# SPECTRA ENVIROTECH PVT LTD

Accredited by MoEF & Accredited by NABL (TC-9903)

Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),

Near Pynampuram / Nelaturu (V), Muthukur (M),

SPSR Nellore (Dist.) - 524344.

**Discipline: Chemical**

**Group: Water**

**Product Water**

**Location-5: Piezo Well No-5- Water –North West Side (PW-5)**

**Date of Monitoring: 20.02.2024**

**Sample Registration Date: 21.02.2024**

**Analysis Starting Date: 21.02.2024**

**Analysis Completed Date: 27.02.2024**

**Issue Date: 27.02.2024**

**Lab Ref: SEPL/ES/SEILEILP/02-24/0003**

**Sample Collected By: Ganesh**

## TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS	STANDARDS AS PER IS:10500	
				PW-5	ACCEPTABLE	PERMISSIBLE
1	pH	--	IS3025(P-11)2021	7.5	6.5- 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.0	1.0	5.0
3	Turbidity	NTU	IS3025(P-10)1984	0.3	1.0	5.0
4	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,275	--	--
5	Temperature	°C	--	22.6	--	--
6	Total Suspended Solids	mg/l	IS3025(P-17)1984	33	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	879	500	2000
8	Total Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	261	200	600
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	223	200	600
10	Calcium as Ca	mg/l	IS3025(P-40)1991	59	75	200
11	Magnesium as Mg	mg/l	IS3025(P-40)1991	21	30	100
12	Free Residual Chlorine	mg/l	IS3025(P-26)1986	<0.1	0.2	No Relaxation
13	Boron as B	mg/l	IS3025(P-57)2021	0.5	0.5	1.0
14	Calcium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	146	--	--
15	Magnesium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	75	--	--
16	Sodium as Na	mg/l	IS3025(P-45)1993	127	--	--
17	Potassium as K	mg/l	IS3025(P-45)1993	19	--	--
18	Chloride as Cl	mg/l	IS3025(P-32)1988	172	250	1000

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**Cell:** 80199 55222, 111 | **BRANCHES:** VIJAYAWADA | HYDERABAD





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S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS	STANDARDS AS PER IS:10500	
				PW-5	ACCEPTABLE	PERMISSIBLE
19	Sulphates as SO <sub>4</sub>	mg/l	IS3025(P-24)1986	64.3	200	400
20	Nitrates as NO <sub>3</sub>	mg/l	IS3025(P-34)1988	36.7	45	No Relaxation
21	Chemical Oxygen Demand	mg/l	IS3025(P-58)2006	<5.0	--	--
22	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	IS3025(P-44)1993	<3.0	--	--
23	Iron as Fe	mg/l	IS3025(P-53)2003	0.20	<0.3	No Relaxation
24	Fluoride as F	mg/l	IS3025(P-60)2008	0.57	<1.0	<1.5
25	Copper as Cu	mg/l	IS3025(P-42)1992	<0.01	<0.05	<1.5
26	Manganese as Mn	mg/l	IS3025(P-59)2006	<0.1	<0.1	<0.3
27	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	mg/l	IS3025(P-43)1992	<0.001	<0.001	<0.002
28	Cadmium as Cd	mg/l	IS3025(P-41)1992	<0.001	<0.003	No Relaxation
29	Mercury as Hg	mg/l	IS3025(P-48)1994	<0.001	<0.001	No Relaxation
30	Selenium as Se	mg/l	IS3025(P-56)2003	<0.01	<0.01	No Relaxation
31	Total Arsenic as As	mg/l	IS3025(P-37)1988	<0.01	<0.01	<0.20
32	Cyanide as CN	mg/l	IS3025(P-27)1986	<0.01	<0.05	No Relaxation
33	Lead as Pb	mg/l	IS3025(P-47)1994	<0.01	<0.01	No Relaxation
34	Zinc as Zn	mg/l	IS3025(P-49)1994	<0.01	<5.0	<15
35	Total Chromium as Cr <sup>+6</sup>	mg/l	IS3025(P-52)2003	<0.01	<0.05	<1.0
36	Aluminium as Al	mg/l	IS3025(P-55)2003	<0.01	0.5	1.0
37	Pesticides	mg/l	As per STP	<0.01	--	No Relaxation
38	Dissolved Oxygen	mg/l	IS3025(P-38)1989	5.9	--	--
39	Oil & Grease	mg/l	IS3025(P-39)2021	<1.0	--	--
40	Phosphates as PO <sub>4</sub>	mg/l	IS3025(P-31)1998	<0.01	--	--
41	Percent Sodium	%	IS3025(P-45)1993	34.6	--	--
42	E-Coli	Per/100ml	ISO 9308-1	Absent	Absent/100 ml	Absent/100 ml
43	Total Coliforms	Per/100ml	ISO 9308-1	Absent	Absent/100 ml	Absent/100 ml
44	Fecal Coliforms	MPN/100ml	IS-1622-1981	Absent	--	--

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## TEST REPORT

ISSUED TO: <b>M/s. SEIL ENERGY INDIA LIMITED PROJECT-1</b> (2x660 MW Coal Based Thermal Power Plant), Near Pynampuram / Nelaturu (V), Muthukur (M), SPSR Nellore (Dist.) -524344.	
Discipline: Chemical Group: Wastewater Sample Location: <b>Ash Pond Effluent Water</b> Date of Monitoring: 23.11.2023 Sample Collected By: Ganesh	Sample Registration Date& No: 39/11/2023 Analysis Starting Date: 23.11.2023 Analysis Completed Date: 30.11.2023 Issue Date: 01.12.2023 Lab Ref: SEPL/ES/SEILEILP/11-23/0001

## TEST RESULT

S.NO	TEST PARAMETERS	UNIT	TEST METHOD	RESULT	STANDARD
1.	pH	---	IS:3025(Part-11)1983	7.2	6.5-8.5
2.	Color	Hazen	IS-3025(Part-4)2021	Colorless	Colorless
3.	Odor	---	IS-3025(Part-5)	Agreeable	Agreeable
4.	Total Suspended Solids	mg/l	IS:3025(Part-11)1983	41	100
5.	Chemical Oxygen Demand (COD)	mg/l	IS:3025(Part-58)-2006	53	250
6.	Biochemical Oxygen Demand (BOD) (3 days at 27 °C)	mg/l	IS:3025(Part-44)-1993	36	100
7.	Oil & Grease	mg/l	IS:3025(Part-39)-1991	2.9	10
8.	Total Arsenic as As	mg/l	IS:3025(Part-37)-1988	<0.01	0.2
9.	Mercury as Hg	mg/l	IS:3025(Part-48)-1994	<0.001	0.01
10.	Lead as Pb	mg/l	IS:3025(Part-47)-1994	<0.01	2.0
11.	Cadmium as Cd	mg/l	IS:3025(Part-41)-1992	<0.001	2.0
12.	Hexavalent Chromium as Cr <sup>6+</sup>	mg/l	IS:3025(Part-52)-2003	<0.001	1.0

IS-Indian Standard

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## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur(M),  
SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Waste water

Sample Location: **Ash Pond Effluent Water**

Date of Monitoring: 20.02.2024

Sample Collected By: Ganesh

Sample Registration Date: 21.02.2024

Analysis Starting Date: 21.02.2024

Analysis Completed Date: 27.02.2024

Issue Date: 27.02.2024

Lab Ref: SEPL/ES/SEILEILP/02-24/0001

## TEST RESULT

S.NO	TEST PARAMETERS	UNIT	TEST METHOD	RESULT	STANDARD
1.	pH	---	IS:3025(Part-11)1983	7.31	6.5-8.5
2.	Color	Hazen	IS-3025(Part-4)2021	Colorless	Colorless
3.	Odor	---	IS-3025(Part-5)	Agreeable	Agreeable
4.	Total Suspended Solids	mg/l	IS:3025(Part-11)1983	27	100
5.	Chemical Oxygen Demand (COD)	mg/l	IS:3025(Part-58)-2006	93	250
6.	Biochemical Oxygen Demand (BOD) (3 days at 27 °C)	mg/l	IS:3025(Part-44)-1993	58	100
7.	Oil & Grease	mg/l	IS:3025(Part-39)-1991	4.2	10
8.	Total Arsenic as As	mg/l	IS:3025(Part-37)-1988	<0.01	0.2
9.	Mercury as Hg	mg/l	IS:3025(Part-48)-1994	<0.001	0.01
10.	Lead as Pb	mg/l	IS:3025(Part-47)-1994	<0.01	2.0
11.	Cadmium as Cd	mg/l	IS:3025(Part-41)-1992	<0.001	2.0
12.	Hexavalent Chromium as Cr <sup>6+</sup>	mg/l	IS:3025(Part-52)-2003	<0.001	1.0

IS-Indian Standard

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## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram/ Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Water

Product: Water

Location: Boiler Feed Water

Qty: 1 Ltrs

Packing: Plastic Container

Date of Sampling: 18.11.2023

Sample Registration No: 368 /11/2023

Sample Registration Date: 19.11.2023

Analysis Starting Date: 19.11.2023

Issue Date: 25.11.2023

Lab Ref: SEPL/ES/SEILEILP/11-23/0001

Sample collected person details: S. Ganesh

## TEST RESULT

S. NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1	Total Suspended Solids	IS 3025(P-17)1984	mg/l	100	2.4
2	Oil & Grease	IS 3025(P-39)2021	mg/l	<1.3	<1.0
3	Copper (Total)	IS 3025(P-42)1992	mg/l	1.0	0.28
4	Ferrous as Fe <sup>+</sup>	IS 3025(P-53)2003	mg/l	1.0	0.19
5	Free Available Chlorine	IS 3025(P-26)1986	mg/l	<0.3	0.05

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## TEST REPORT

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**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram/ Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Water

Product: Water

Location: Cooling Tower Blow Down

Qty: 1 Ltrs

Packing: Plastic Container.

Date of Sampling: 18.11.2023

Sample Registration No: 368/05/2023

Sample Registration Date: 19.11.2023

Analysis Starting Date: 19.11.2023

Issue Date: 25.11.2023

Lab Ref: SEPL/ES/SEILEILP/11-23/0002

Sample collected person details: S. Ganesh

## TEST RESULT

S. NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1	Zinc	IS 3025(P-49)1994	mg/l	1.0	0.34
2	Chromium (Total)	IS 3025(P-52)2023	mg/l	0.2	BDL
3	Phosphate	IS 3025(P-31)1998	mg/l	5.0	2.2
4	Free Available Chlorine	IS 3025(P-26)1986	mg/l	0.5	0.3

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(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram/ Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.)- 524344.

Discipline: Chemical

Group: Water

Product: Water

Location: Boiler Feed Water

Qty: 1 Ltrs

Packing: Plastic Container

Date of Sampling: 20.02.2024

Sample Registration Date: 21.02.2024

Analysis Starting Date: 21.02.2024

Issue Date: 27.02.2024

Lab Ref: SEPL/ES/SEILEILP/02-24/0001

Sample collected person details: S. Ganesh

## TEST RESULT

S. NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1	Total Suspended Solids	IS 3025(P-17)1984	mg/l	100	3.8
2	Oil & Grease	IS 3025(P-39)2021	mg/l	<1.3	<1.0
3	Copper (Total)	IS 3025(P-42)1992	mg/l	1.0	0.42
4	Ferrous as Fe <sup>+</sup>	IS 3025(P-53)2003	mg/l	1.0	0.39
5	Free Available Chlorine	IS 3025(P-26)1986	mg/l	<0.3	0.01

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**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram/ Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Water

Product: Water

Location: Cooling Tower Blow Down

Qty: 1 Ltrs

Packing: Plastic Container

Date of Sampling: 20.02.2024

Sample Registration Date: 21.02.2024

Analysis Starting Date: 21.02.2024

Issue Date: 27.02.2024

Lab Ref: SEPL/ES/SEILEILP/02-24/0002

Sample collected person details: S. Ganesh

## TEST RESULT

S. NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1	Zinc	IS 3025(P-49)1994	mg/l	1.0	0.26
2	Chromium (Total)	IS 3025(P-52)2023	mg/l	0.2	BDL
3	Phosphate	IS 3025(P-31)1998	mg/l	5.0	3.9
4	Free Available Chlorine	IS 3025(P-26)1986	mg/l	0.5	0.1

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**Cell:** 80199 55222, 111 | **BRANCHES:** VIJAYAWADA | HYDERABAD



Date: 20/11/2023

**SEIL ENERGY INDIA LIMITED  
SEMBCORP ENERGY INDIA LIMITED, PYNAMPURAM, NELATURU  
VILLAGE, PO- AREA MUTHUKUR, NELLORE  
MUTHUKUR - 524344  
NELLORE  
ANDHRA PRADESH  
INDIA  
37AACCT8413D1ZH(GSTIN Number)**

**ANNEXURE-V**

**Policy No : 0304005805**

**Renewal : 03**

**Endorsement : 00**

Dear Sir / Madam,

We thank you for choosing **Tata AIG General Insurance Company Ltd.** as your preferred insurer. Your Policy No. Is 0304005805 03 00.

We are glad that you have chosen our product **PUBLIC LIABILITY ACT** and given us an opportunity to be your risk carrier for this Product.

'Casualty Line' caters to most of the Enterprises / Industries in India, whether Large, Medium or Small. As one of the India's most established insurance companies, we understand these unique needs of coverage. At Tata AIG we care for you and would strive to offer convenience coupled with a range of products that cater continuously to your ever increasing needs.

Enclosed please find your policy docket based on the information furnished by you in the Proposal.

We look forward to a long and mutually beneficial relationship and providing you wider range of benefits in the years to come.

Yours Sincerely,  
For Tata AIG General Insurance Company Limited



**Authorized Signatory**

**PUBLIC LIABILITY ACT POLICY  
POLICY SCHEDULE**

Agent/Broker Name -WILLIS TOWERS WATSON INDIA INSURANCE BROKERS PRIVATE LTD.

Agent/Broker License Code - 209:Agent/Broker :Contact No - 9871411598 (mobile or landline)

**Attaching to and forming part of Policy No.** 0304005805 03 00  
**Name of Insured Owner:** SEIL ENERGY INDIA LIMITED  
**Business:** Thermal Power Plant with all supported infrastructure

**Address:** SEMBCORP ENERGY INDIA LIMITED, PYNAMPURAM, NELATURU  
VILLAGE, PO- AREA MUTHUKUR, NELLORE  
MUTHUKUR - 524344  
NELLORE  
ANDHRA PRADESH  
INDIA  
37AACCT8413D1ZH(GSTIN Number)  
Place of supply -ANDHRA PRADESH  
State code -37

**Territorial limits:** Anywhere in India

**Policy Period: From:** 19/11/2023 12:00 AM/ PM  
**To Midnight of:** 18/11/2024 12:00 AM/ PM

Indemnity limit:Rs 50,000,000.00 in respect of any one accident and not exceeding 3 times thereof in the aggregate during the policy period.

Service Tax Registration No:

Premium	₹ 12,000.00
IGST @18 %	₹ 2,160.00

**Contribution to the  
Environment Relief Fund:₹ 12,000.00**

**Date of Proposal and declaration:20/11/2023**

In witness whereof the undersigned being duly authorized by the company and on behalf of the company has hereto set his hand at HYDERABAD on 20/11/2023

The stamp duty of 0.25 paid in cash or demand draft or by pay order,vide Receipt/Challan no: LOA/CSD/01/2023/4269 dated the 25/10/2023

**For Tata AIG General Insurance Company Limited**



**Authorized Signatory**

Date :20/11/2023  
Place :HYDERABAD

**Policy Servicing Office**  
**Tata AIG General Insurance Company Limited**  
5TH AND 6TH FLOOR, IMPERIAL TOWERS,, H.NO 7-1-6-617/A, GHMC NO - 615,616,,HYDERABAD,TELANGANA,HYDERABAD-500016  
Tel No:91-44-66864900

## RECEIPT

Receipt No. : 102001060667500

Receipt Date : 16/11/2023

Policy No : 0304005805 03 00

Received with thanks from SEIL ENERGY INDIA LIMITED a sum of ₹ 26,160.00 ( Rupees Twenty Six Thousand One Hundred Sixty And Paise Zero Only)

Sr. No.	Policy Number	Total Premium (₹)	Utilized from the receipt for policy (₹)	Balance (₹)
1	0304005805 03 00	26,160.00	26,160.00	0.00

**Note:**

1. This is a computer generated receipt and does not require a signature.
2. Upon issuance of this Receipt, all previously issued temporary receipts, if any, related to this Policy shall be considered null and void.
3. Amounts received by cheque shall be subject to realisation.
4. Any amount received in excess of the Premium is being/shall be refunded by the Company.

**GSTIN : 36AABCT3518Q1ZX - TELANGANA Service Accounting Code : 997139**

Revenue (consolidated) Stamp Duty duly paid vide challan No.LOA/CSD/47/2023/2581 date 22/05/2023 for applicable cases.

Insurance is the subject matter of the solicitation. For more details on risk factors, terms and conditions, please read sales brochure carefully before concluding a sale.  
TATA AIG General Insurance Company Ltd. Regd. Office: 15th floor, Tower A, Peninsula Business Park, Ganpatrao Kadam Marg, Off Senapati Bapat Marg, Lower Parel, Mumbai- 400 013.

IRDA Registration No.108, CIN No : U85110MH2000PLC128425, PAN : AABCT3518Q, UIN No : IRDAN108CP0058V01201819  
Website: www.tataaig.com 24X7 Tollfree Helpline 1800-266-7780 E-mail: customersupport@tataaig.com

**LIABILITY INSURANCE POLICY  
(UNDER PUBLIC LIABILITY INSURANCE ACT 1991)**

**1. OPERATIVE CLAUSE**

Whereas the Insured Owner named in the schedule hereto and carrying on business described in the said schedule has applied to the Tata AIG General Insurance Company Limited (hereinafter called the Company) for the indemnity hereinafter contained and has made a written proposal and declaration which shall be the basis of this contract and is deemed to be incorporated herein and has paid the premium and statutory contribution towards the Environment Relief Fund as per the provisions of the Public Liability Insurance Act and the rules framed thereunder.

NOW THIS POLICY WITNESSETH that subject to the terms, exceptions and conditions contained herein or endorsed hereon, the company will indemnify the insured owner against the statutory liability arising out of accidents occurring during the currency of the policy due to handling hazardous substances as provided for in the said Act and the Rules framed thereunder.

**2. DEFINITIONS:**

- a) "ACT" unless otherwise specifically mentioned shall mean the Public Liability Insurance Act 1991 as amended from time to time;
- b) "Accident" means an accident involving a fortuitous, sudden or unintentional occurrence while handling any hazardous substance resulting in continuous, intermittent or repeated exposure to death of, or injury to any person or damage to any property but does not include an accident by reason only of war or radioactivity;
- c) "Handling" in relation to any hazardous substance means the manufacture, processing, treatment, package, storage, transportation by vehicle, use, collection, destruction, conversion, offering for sale, transfer or the like of such hazardous substance;
- d) "Hazardous Substance" means any substance or preparation which is defined as hazardous substance under the Environment (Protection) Act, 1986, and exceeding such quantity as may be specified, by notification, by the Central Government;
- e) "Owner" means a person who owns, or has control over handling any hazardous substance at the time of accident and includes:
- i) in the case of a firm any of its partners;
  - ii) in the case of an association, any of its members, and
  - iii) in the case of a company, any of its directors, managers, secretaries or other officers who is/are directly in charge of, and is/are responsible to the company for the conduct of the business of the company;
- f) "Turnover" shall mean
- i) Manufacturing units-Annual Gross Sales of all goods including all levies and taxes
  - ii) Godowns/ warehouse owners-Total Annual rental receipts.
  - iii) Transport Operators-Total Annual freight receipts.
  - iv) Others-Total Annual gross receipts.

**3. EXCLUSIONS:**

- (1) arising out of wilful or intentional non-compliance of any Statutory provisions.
- (2) in respect of fines, penalties, punitive and/or exemplary damages.
- (3) arising under any other legislation except in so far as provided for in Section 8 Sub Section (1) and (2) of the Act.
- (4) in respect of damage to property owned, leased or hired or under hire purchase or on loan to the Insured or otherwise in the Insured Owner's control, care or custody.
- (5) directly or indirectly occasioned by, happening through or in consequence of war, invasion, act of foreign enemy, hostilities (whether war be declared or not), civil war, rebellion, revolution, insurrection or military or usurped power;
- (6) directly or indirectly caused by or contributed to by.
  - (a) ionising radiation or contamination by radioactivity from any nuclear fuel or from any nuclear waste from the combustion of nuclear fuel
  - (b) the radioactive, toxic, explosive or other hazardous properties of any explosive nuclear assembly or nuclear component thereof.

**4. CONDITIONS:**

The Insured owner shall give written notice to the Company as soon as reasonably practicable of any claim made against the Insured Owner or of any specific event or (1) circumstance that may give rise to a claim. The Insured Owner shall immediately give to the Company copies of notice of applications forwarded by the Collector and all

such additional information and or assistance that the company may require.

- (2) No admission, offer, promise or payments shall be made or given by or on behalf of the Insured owner under this policy without the written consent of the Company.
  - (3) The Company shall not be liable for any claim for relief made after five years from the date of occurrence of the accident.
  - (4) The Insured Owner shall keep record of annual turnover, and at the time of renewal of insurance declare such turnover and all other details as may be required by the Company. The Company shall at all reasonable times have full rights to call for and examine such records.
  - (5) If at the time of happening of any accident resulting in a claim under this policy there be any other insurance covering the same liability, then the Company shall not be liable to pay or contribute more than its ratable proportion of such liability.
  - (6) This policy may be cancelled by the Insured Owner by giving 30 days notice in writing to the company in which event the Company will retain premium at short period scale subject to there not having occurred an accident during the policy period which may give rise to a claims(s), failing which no refund of premium shall be allowable.
  - (7) This Policy may also be cancelled by the Insurer by giving 30 days notice in writing to the Insured Owner in which event the Company shall be liable to repay on demand a ratable proportion of the premium for the unexpired term from the date of cancellation.
- If the Company shall disclaim liability to the Insured Owner for any claim hereunder and such claim shall not within 12 calendar months from the date of such disclaimer
- (8) have been made the subject matter of a suit in a competent court of law, then the claim for the practical purposes shall be deemed to have been abandoned and shall not thereafter be recoverable hereunder or be made the subject matter of any suit.
- The Company shall not be liable to make any payment in respect of any claim if such claim shall be in any manner fraudulent or supported, by any person on behalf of the
- (9) Insured Owner and/or if the insurance has been continued in consequence of any material misstatement or non-disclosure of any material information by or on behalf of the Insured Owner. In such a case if the Company pays any amount to the claimant due to any statutory provision such amount shall be recoverable from the Insured Owner.
- (10) The Policy and the Schedule shall be read together as one contract and any word or expression to which a specific meaning has been assigned in the Act and the Rules framed thereunder or in this Policy shall bear such specific meaning.
  - (11) Any dispute regarding interpretation of the terms, conditions and exclusions of this Policy shall be determined in accordance with the law and practice of a court of competent jurisdiction within India.



## GRIEVANCE REDRESSAL POLICY

### Grievance Lodgment Stage

The Company is committed to extend the best possible services to its customers. However, if you are not satisfied with our services and wish to lodge a complaint, please feel free to contact us through below channels:

**Call us** 24X7 toll free helpline 1800 266 7780

**Email us** at customersupport@tataaig.com

**Write to us at :** Customer Support, Tata AIG General Insurance Company Limited

A-501 Building No.4 IT Infinity Park, Dindoshi, Malad (E), Mumbai - 400097

**Visit the Servicing Branch** mentioned in the policy document

### Nodal Officer

Please visit our website at [www.tataaig.com](http://www.tataaig.com) to know the contact details of the Nodal Officer for your servicing branch.

After investigating the grievance internally and subsequent closure, we will send our response within a period of 10 days from the date of receipt of the complaint by the Company or its office in Mumbai. In case the resolution is likely to take longer time, we will inform you of the same through an interim reply.

### Escalation Level 1

For lack of a response or if the resolution still does not meet your expectations, you can write to [manager.customersupport@tataaig.com](mailto:manager.customersupport@tataaig.com). After investigating the matter internally and subsequent closure, we will send our response within a period of 8 days from the date of receipt of your complaint.

### Escalation Level 2

For lack of a response or if the resolution still does not meet your expectations, you can write to the Head-Customer Services at [head.customerservices@tataaig.com](mailto:head.customerservices@tataaig.com). After examining the matter, we will send you our response within a period of 7 days from the date of receipt of your complaint. Within 30 days of lodging a complaint with us, if you do not get a satisfactory response from us and you wish to pursue other avenues for redressal of grievances, you may approach Insurance Ombudsman appointed by IRDA under the Insurance Ombudsman Scheme. Given below are details of the Insurance Ombudsman located at various centers.

**List of Insurance Ombudsman Offices**

Office of the Ombudsman	Address & Contact details	Jurisdiction of Office Union Territory, District
AHMEDABAD	Office of the Insurance Ombudsman, Jeevan Prakash Building, 6th Floor, Tilak Marg, Relief Road, Ahmedabad - 380 001. Tel.: 079 - 25501201/02/05/06 Email: <a href="mailto:bimalokpal.ahmedabad@ecoi.co.in">bimalokpal.ahmedabad@ecoi.co.in</a>	Gujarat, Dadra & Nagar Haveli, Daman and Diu.
BENGALURU	Office of the Insurance Ombudsman, Jeevan Soudha Building, PID No. 57-27-N-19 Ground Floor, 19/19, 24th Main Road, JP Nagar, Ist Phase, Bengaluru - 560 078. Tel.: 080 - 26652048 / 26652049 Email: <a href="mailto:bimalokpal.bengaluru@ecoi.co.in">bimalokpal.bengaluru@ecoi.co.in</a>	Karnataka
BHOPAL	Office of the Insurance Ombudsman, Janak Vihar Complex, 2nd Floor, 6, Malviya Nagar, Opp. Airtel Office, Near New Market, Bhopal - 462 003. Tel.: 0755 - 2769201 / 2769202 Fax: 0755 - 2769203 Email: <a href="mailto:bimalokpal.bhopal@ecoi.co.in">bimalokpal.bhopal@ecoi.co.in</a>	Madhya Pradesh Chattisgarh
BHUBANESHWAR	Office of the Insurance Ombudsman, 62, Forest park, Bhubneshwar - 751 009. Tel.: 0674 - 2596461 /2596455 Fax: 0674 - 2596429 Email: <a href="mailto:bimalokpal.bhubaneswar@ecoi.co.in">bimalokpal.bhubaneswar@ecoi.co.in</a>	Orissa
CHANDIGARH	Office of the Insurance Ombudsman, S.C.O. No. 101, 102 & 103, 2nd Floor, Batra Building, Sector 17 - D, Chandigarh - 160 017. Tel.: 0172 - 2706196 / 2706468 Fax: 0172 - 2708274 Email : <a href="mailto:bimalokpal.chandigarh@ecoi.co.in">bimalokpal.chandigarh@ecoi.co.in</a>	Punjab, Haryana, Himachal Pradesh, Jammu & Kashmir, Chandigarh
CHENNAI	Office of the Insurance Ombudsman, Fatima Akhtar Court, 4th Floor, 453, Anna Salai, Teynampet, CHENNAI - 600 018. Tel.: 044 - 24333668 / 24335284 Fax: 044 - 24333664 Email : <a href="mailto:bimalokpal.chennai@ecoi.co.in">bimalokpal.chennai@ecoi.co.in</a>	Tamil Nadu, Pondicherry Town and Karaikal (which are part of Pondicherry).
DELHI	Office of the Insurance Ombudsman, 2/2 A, Universal Insurance Building, Asaf Ali Road, New Delhi - 110 002. Tel.: 011 - 23239633 / 23237532 Fax: 011 - 23230858 Email: <a href="mailto:bimalokpal.delhi@ecoi.co.in">bimalokpal.delhi@ecoi.co.in</a>	Delhi
GUWAHATI	Office of the Insurance Ombudsman, Jeevan Nivesh, 5th Floor, Nr. Panbazar over bridge, S.S. Road, Guwahati - 781001(ASSAM). Tel.: 0361 - 2132204 / 2132205 Fax: 0361 - 2732937 Email : <a href="mailto:bimalokpal.guwahati@ecoi.co.in">bimalokpal.guwahati@ecoi.co.in</a>	Assam, Meghalaya, Manipur, Mizoram, Arunachal Pradesh, Nagaland and Tripura
HYDERABAD	Office of the Insurance Ombudsman, 6-2-46, 1st floor, "Moin Court", Lane Opp. Saleem Function Palace, A. C. Guards, Lakdi-Ka-Pool, Hyderabad - 500 004. Tel.: 040 - 65504123 / 23312122 Fax: 040 - 23376599 Email : <a href="mailto:bimalokpal.hyderabad@ecoi.co.in">bimalokpal.hyderabad@ecoi.co.in</a>	Andhra Pradesh, Telangana, Yanam and part of Territory of Pondicherry.
JAIPUR	Office of the Insurance Ombudsman, Jeevan Nidhi - II Bldg., Gr. Floor, Bhawani Singh Marg, Jaipur-302 005. Tel.: 0141 - 2740363 Email: <a href="mailto:Bimalokpal.jaipur@ecoi.co.in">Bimalokpal.jaipur@ecoi.co.in</a>	Rajasthan
ERNAKULAM	Office of the Insurance Ombudsman, 2nd Floor, Pulinat Bldg., Opp. Cochin Shipyard, M. G. Road, Ernakulam - 682 015. Tel.: 0484 - 2358759 / 2359338 Fax: 0484 - 2359336 Email : <a href="mailto:bimalokpal.ernakulam@ecoi.co.in">bimalokpal.ernakulam@ecoi.co.in</a>	Kerala, Lakshadweep, Mahe-a part of Pondicherry
KOLKATA	Office of the Insurance Ombudsman, Hindustan Bldg. Annexe, 4th Floor, 4, C.R. Avenue, KOLKATA-700 072. Tel.: 033 - 22124339 / 22124340 Fax : 033 - 22124341 Email: <a href="mailto:bimalokpal.kolkata@ecoi.co.in">bimalokpal.kolkata@ecoi.co.in</a>	West Bengal, Sikkim, Andaman & Nicobar Islands
LUCKNOW	Office of the Insurance Ombudsman, 6th Floor, Jeevan Bhawan, Phase-II, Nawal Kishore Road, Hazratganj, Lucknow - 226 001. Tel.: 0522 - 2231330 / 2231331 Fax: 0522 - 2231310 Email : <a href="mailto:bimalokpal.lucknow@ecoi.co.in">bimalokpal.lucknow@ecoi.co.in</a>	Districts of Uttar Pradesh : Laitpur, Jhasi, Mahoba, Hamirpur, Banda, Chitrakoot, Allahabad, Mirzapur, Sonbhadra, Fatehpur, Pratapgarh, Jaunpur, Varanasi, Gazipur, Jalaun, Kanpur, Lucknow, Unnao, Sitapur, Lakhimpur, Bahraich, Barabanki, Raebareli, Sravasti, Gonda, Faizabad, Amethi, Kaushambi, Balrampur, Basti, Ambedkarnagar, Sultanpur, Maharajgang, Santkabirnagar, Azamgarh, Kushinagar, Gorkhpur, Deoria, Mau, Ghazipur, Chandauli, Ballia, Sidharathnagar

Insurance is the subject matter of the solicitation. For more details on risk factors, terms and conditions, please read sales brochure carefully before concluding a sale.

TATA AIG General Insurance Company Ltd. Regd. Office: 15th floor, Tower A, Peninsula Business Park, Ganpatrao Kadam Marg, Off Senapati Bapat Marg, Lower Parcel, Mumbai- 400 013.

IRDA Registration No.108, CIN No : U85110MH2000PLC128425, PAN : AABCT3518Q, UIN No : IRDAN108CP0058V01201819

Website: [www.tataaig.com](http://www.tataaig.com) 24X7 Tollfree Helpline 1800-266-7780 E-mail: [customersupport@tataaig.com](mailto:customersupport@tataaig.com)

MUMBAI	Office of the Insurance Ombudsman, 3rd Floor, Jeevan Seva Annexe, S. V. Road, Santacruz (W), Mumbai - 400 054. Tel.: 022 - 26106552 / 26106960 Fax: 022 - 26106052 Email : bimalokpal.mumbai@ecoi.co.in	Goa, Mumbai Metropolitan Region excluding Navi Mumbai & Thane
NOIDA	Office of the Insurance Ombudsman, Bhagwan Sahai Palace, 4th Floor, Main Road, Naya Bans, Sector 15, Distt: Gautam Buddha Nagar, U.P-201301. Tel.: 0120-2514250 / 2514252 / 2514253 Email : bimalokpal.noida@ecoi.co.in	State of Uttaranchal and the following Districts of Uttar Pradesh : Agra, Aligarh, Bagpat, Bareilly, Bijnor, Budaun, Bulandshehar, Etah, Kanooj, Mainpuri, Mathura, Meerut, Moradabad, Muzaffarnagar, Oraiyya, Pilibhit, Etawah, Farrukhabad, Firozbad, Gautambodhanagar, Ghazaibad, Hardoi, Shahjahanpur, Hapur, Shamli, Rampur, Kashganj, Sambhal, Amroha, Hathras, Kanshiramnagar, Saharanpur
PATNA	Office of the Insurance Ombudsman, 1st Floor, Kalpana Arcade Building, Bazar Samiti Road, Bahadurpur, Patna 800 006. Tel.: 0612-2680952 Email: bimalokpal.patna@ecoi.co.in	Bihar, Jharkhand
PUNE	Bhagwan Sahai Palace , 4th Floor, Main Road, Naya Bans, Sector 15, G.B. Nagar, Noida. NOIDA – 201301 Tel: 0120-2514250/51/53 Email: bimalokpal.noida@gbic.co.in	Maharashtra, Area of Navi Mumbai and Thane excluding Mumbai Metropolitan Region



# SPECTRA ENVIROTECH PVT LTD

Accredited by MoEF & Accredited by NABL (TC-9903)

Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ANNEXURE-VI

### ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

Group: Atmospheric Pollution

Product: **DG STACK EMISSION MONITORING-- November 2023**

Location: **DG SET STACK#1 (1500 KVA)**

Date of Monitoring: **23.11.2023**

Sample Registration Date: 26.05.2023

Analysis Starting Date: **24.11.2023**

Analysis Completed Date: **30.11.2023**

Issue Date: **30.11.2023**

Lab Ref: **SEPL/ES/SEILEILP/11-23/0001**

## TEST RESULT

1. Time of Sampling ---- : 10:00 Hrs. to 10:25 Hrs.
2. Time Duration : 00:25 Hrs.
3. Ambient Temperature (°C) : 34.6
4. Flue gas Temperature (°C) : 144
5. Velocity of the flue gas (m/sec) : 14.84
6. C/s area of the duct (m<sup>2</sup>) : 0.196
7. Stack Diameter (m) : 0.5
8. Flue gas Flow Rate (Nm<sup>3</sup>/hr) : 10471

S.NO.	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1.	Particulate Matter	IS 11255 (part-1)1985	mg/Nm <sup>3</sup>	26.7	75
2.	Sulphur Dioxide	IS 11255 (part-2)1985	mg/Nm <sup>3</sup>	517	-
3.	Oxides of Nitrogen	IS 11255 (part-7)1985	mg/Nm <sup>3</sup>	132	360
4.	Carbon Monoxide	Gas Chromatography	ppm	35	150
5.	Non-Methane Hydro Carbon (NMHC)	Gas Chromatography	mg/Nm <sup>3</sup>	48	100

### Instrument Details:

Instrument Name : Stack Monitoring Kit  
Make : SSE(Sree Scient Equipment)  
Model / SI No : Sem-150/220206  
Calibration Due : 28.02.2024

K.S.Laj  
Verified by



DA  
Authorized by  
Managing Director

**LABORATORY** : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

**Web** : www.spectraenviro.com | **E-mail**: sepl.sjn@gmail.com | info@spectraenviro.com

**Cell**: 80199 55222, 111 | **BRANCHES**: VIJAYAWADA | HYDERABAD





# SPECTRA ENVIROTECH PVT LTD

Accredited by MoEF & Accredited by NABL (TC-9903)

Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORTS

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

Group: Atmospheric Pollution

Product: **DG STACK EMISSION MONITORING–November 2023**

Location: **DG SET STACK#2 (1500 KVA)**

Date of Monitoring: 23.11.2023

Sample Registration Date: 26.05.2023

Analysis Starting Date: **24.11.2023**

Analysis Completed Date: **30.11.2023**

Issue Date: **30.11.2023**

Lab Ref: **SEPL/ES/SEILEILP/11-23/0002**

## TEST RESULT

1. Time of Sampling ---- : 10:35 Hrs. to 11:00 Hrs.
2. Time Duration : 00:25 Hrs.
3. Ambient Temperature (°C) : 36.1
4. Flue gas Temperature (°C) : 146
5. Velocity of the flue gas (m/sec) : 14.34
6. C/s area of the duct (m<sup>2</sup>) : 0.196
7. Stack Diameter (m) : 0.5
8. Flue gas Flow Rate (Nm<sup>3</sup>/hr) : 10118

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1.	Particulate Matter	IS 11255 (part-1)1985	mg/Nm <sup>3</sup>	34.7	75
2.	Sulphur Dioxide	IS 11255 (part-2)1985	mg/Nm <sup>3</sup>	431	-
3.	Oxides of Nitrogen	IS 11255 (part-7)1985	mg/Nm <sup>3</sup>	125	360
4.	Carbon Monoxide	Gas Chromatography	ppm	56	150
5.	Non Methane Hydro Carbon (NMHC)	Gas Chromatography	mg/Nm <sup>3</sup>	37	100

### Instrument Details:

Instrument Name : Stack Monitoring Kit  
Make : SSE (Sree Scient Equipment)  
Model / SI No : Sem -150/220509  
Calibration Due : 28.02.2024

K.S.Laj  
Verified by



DA  
Authorized by  
Managing Director

**LABORATORY** : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

**Web** : www.spectraenviro.com | **E-mail**: sepl.sjn@gmail.com | info@spectraenviro.com

**Cell**: 80199 55222, 111 | **BRANCHES**: VIJAYAWADA | HYDERABAD





# SPECTRA ENVIROTECH PVT LTD

Accredited by MoEF & Accredited by NABL (TC-9903)

Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORTS

### ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

Group: Atmospheric Pollution

Product: **DG STACK EMISSION MONITORING-- November 2023**

Location: **DG SET STACK#3 (1500 KVA)**

Date of Monitoring: 23.11.2023

Sample Registration Date: 26.05.2023

Analysis Starting Date: 24.11.2023

Analysis Completed Date: 30.11.2023

Issue Date: 30.11.2023

Lab Ref: SEPL/ES/SEILEILP/11-23/0003

## TEST RESULT

1. Time of Sampling ---- : 11:05 Hrs. to 11:25 Hrs.
2. Time Duration : 00:20 Hrs.
3. Ambient Temperature (°C) : 35.5
4. Flue gas Temperature (°C) : 148
5. Velocity of the flue gas(m/sec) : 14.37
6. C/s area of the duct (m<sup>2</sup>) : 0.196
7. Stack Diameter (m) : 0.5
8. Flue gas Flow Rate (Nm<sup>3</sup>/hr) : 10139

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1.	Particulate Matter	IS 11255 (part-1)1985	mg/Nm <sup>3</sup>	38.4	75
2.	Sulphur Dioxide	IS 11255 (part-2)1985	mg/Nm <sup>3</sup>	44.3	-
3.	Oxides of Nitrogen	IS 11255 (part-7)1985	mg/Nm <sup>3</sup>	168	360
4.	Carbon Monoxide	Gas Chromatography	ppm	52	150
5.	Non Methane Hydro Carbon (NMHC)	Gas Chromatography	mg/Nm <sup>3</sup>	48	100

### Instrument Details:

Instrument Name : Stack Monitoring Kit  
Make : SSE (Sree Scient Equipment)  
Model / SI No : EI-106/21-F-16  
Calibration Due : 28.02.2024

K.S.Laj  
Verified by



DA  
Authorized by  
Managing Director

**LABORATORY** : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

**Web** : www.spectraenviro.com | **E-mail**: sepl.sjn@gmail.com | info@spectraenviro.com

**Cell**: 80199 55222, 111 | **BRANCHES**: VIJAYAWADA | HYDERABAD





# SPECTRA ENVIROTECH PVT LTD

Accredited by MoEF & Accredited by NABL (TC-9903)

Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

### ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

Group: Atmospheric Pollution

Product: **DG STACK EMISSION MONITORING- February 2024**

Location: **DG SET STACK#1 (1500 KVA)**

Date of Monitoring: **20.02.2024**

Sample Registration Date: 21.02.2024

Analysis Starting Date: **21.02.2024**

Analysis Completed Date: **27.02.2024**

Issue Date: **27.02.2024**

Lab Ref: **SEPL/ES/SEILEILP/02-24/0001**

## TEST RESULT

1. Time of Sampling ---- : 10:00 Hrs. to 10:25 Hrs.
2. Time Duration : 00:25 Hrs.
3. Ambient Temperature (°C) : 35.2
4. Flue gas Temperature (°C) : 148
5. Velocity of the flue gas (m/sec) : 14.93
6. C/s area of the duct (m<sup>2</sup>) : 0.196
7. Stack Diameter (m) : 0.5
8. Flue gas Flow Rate (Nm<sup>3</sup>/hr) : 10534.6

S.NO.	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1.	Particulate Matter	IS 11255 (part-1)1985	mg/Nm <sup>3</sup>	28.5	75
2.	Sulphur Dioxide	IS 11255 (part-2)1985	mg/Nm <sup>3</sup>	425	-
3.	Oxides of Nitrogen	IS 11255 (part-7)1985	mg/Nm <sup>3</sup>	139	360
4.	Carbon Monoxide	Gas Chromatography	ppm	38	150
5.	Non-Methane Hydro Carbon (NMHC)	Gas Chromatography	mg/Nm <sup>3</sup>	52	100

### Instrument Details:

Instrument Name : Stack Monitoring Kit  
Make : SSE (Sree Scient Equipment)  
Model / SI No : Sem-150/220206  
Calibration Due : 28.02.2025

K.S.Laj  
Verified by



DA  
Authorized by  
Managing Director

**LABORATORY** : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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# SPECTRA ENVIROTECH PVT LTD

Accredited by MoEF & Accredited by NABL (TC-9903)

Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**

(2x660 MW Coal Based Thermal Power Plant),

Near Pynampuram / Nelaturu (V), Muthukur (M),

SPSR Nellore (Dist.) -524344.

Group: Atmospheric Pollution

Product: **DG STACK EMISSION MONITORING-February 2024**

Location: **DG SET STACK#2 (1500 KVA)**

Date of Monitoring: 20.02.2024

Sample Registration Date: 21.02.2024

Analysis Starting Date: 21.02.2024

Analysis Completed Date: 27.02.2024

Issue Date: 27.02.2024

Lab Ref: SEPL/ES/SEILEILP/02-24/0002

## TEST RESULT

1. Time of Sampling ---- : 10:35 Hrs. to 11:00 Hrs.
2. Time Duration : 00:25 Hrs.
3. Ambient Temperature (°C) : 36.8
4. Flue gas Temperature (°C) : 149
5. Velocity of the flue gas (m/sec) : 14.43
6. C/s area of the duct (m<sup>2</sup>) : 0.196
7. Stack Diameter (m) : 0.5
8. Flue gas Flow Rate (Nm<sup>3</sup>/hr) : 10181.8

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1.	Particulate Matter	IS 11255 (part-1)1985	mg/Nm <sup>3</sup>	36.3	75
2.	Sulphur Dioxide	IS 11255 (part-2)1985	mg/Nm <sup>3</sup>	439	-
3.	Oxides of Nitrogen	IS 11255 (part-7)1985	mg/Nm <sup>3</sup>	142	360
4.	Carbon Monoxide	Gas Chromatography	ppm	59	150
5.	Non Methane Hydro Carbon (NMHC)	Gas Chromatography	mg/Nm <sup>3</sup>	46	100

### Instrument Details:

Instrument Name : Stack Monitoring Kit

Make : SSE (Sree Scient Equipment)

Model / SI No : Sem -150/220509

Calibration Due : 28.02.2025

K.S.Laj  
Verified by



DA  
Authorized by  
Managing Director

LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

### ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-1**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Pynampuram / Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.) -524344.

Group: Atmospheric Pollution

Product: **DG STACK EMISSION MONITORING- February 2024**

Location: **DG SET STACK#3 (1500 KVA)**

Date of Monitoring: 20.02.2024

Sample Registration Date: 21.02.2024

Analysis Starting Date: **21.02.2024**

Analysis Completed Date: **27.02.2024**

Issue Date: **27.02.2024**

Lab Ref: **SEPL/ES/SEILEILP/02-24/0003**

## TEST RESULT

1. Time of Sampling ---- : 11:05 Hrs. to 11:25 Hrs.
2. Time Duration : 00:20 Hrs.
3. Ambient Temperature (°C) : 36.2
4. Flue gas Temperature (°C) : 143
5. Velocity of the flue gas (m/sec) : 14.95
6. C/s area of the duct (m<sup>2</sup>) : 0.196
7. Stack Diameter (m) : 0.5
8. Flue gas Flow Rate (Nm<sup>3</sup>/hr) : 10195.9

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1.	Particulate Matter	IS 11255 (part-1)1985	mg/Nm <sup>3</sup>	36.7	75
2.	Sulphur Dioxide	IS 11255 (part-2)1985	mg/Nm <sup>3</sup>	46.3	-
3.	Oxides of Nitrogen	IS 11255 (part-7)1985	mg/Nm <sup>3</sup>	174	360
4.	Carbon Monoxide	Gas Chromatography	ppm	56	150
5.	Non Methane Hydro Carbon (NMHC)	Gas Chromatography	mg/Nm <sup>3</sup>	53	100

### Instrument Details:

Instrument Name : Stack Monitoring Kit  
Make : SSE (Sree Scient Equipment)  
Model / SI No : EI-106/21-F-16  
Calibration Due : 28.02.2025

K.S.Laj  
Verified by



DA  
Authorized by  
Managing Director

**LABORATORY** : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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