



**SEIL Energy India Limited**  
(Formerly Sembcorp Energy India Limited)  
CIN: U40103HR2008PLC095648

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SEIL P1/APPCB/BZA/2023/008  
27<sup>th</sup> Dec. 2023

**The Member Secretary,**  
Andhra Pradesh Pollution Control Board,  
Paryavaran Bhawan, APIIC Colony Road,  
Guru Nanak Colony, Auto Nagar  
Vijayawada– 520010.

**Sub:** Submission of Half Yearly CTO Compliance Report for the period April to September 2023

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

**Respected Sir,**

In reference to the above, we are submitting herewith the Half Yearly CTO compliance report for the period of April to September 2023 in compliance to the conditions stipulated in CTO, issued to SEIL Energy India Limited Project-1 (Formerly Sembcorp Energy India Limited), Nellore.

Hope the above is in order.

Thanking you,

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

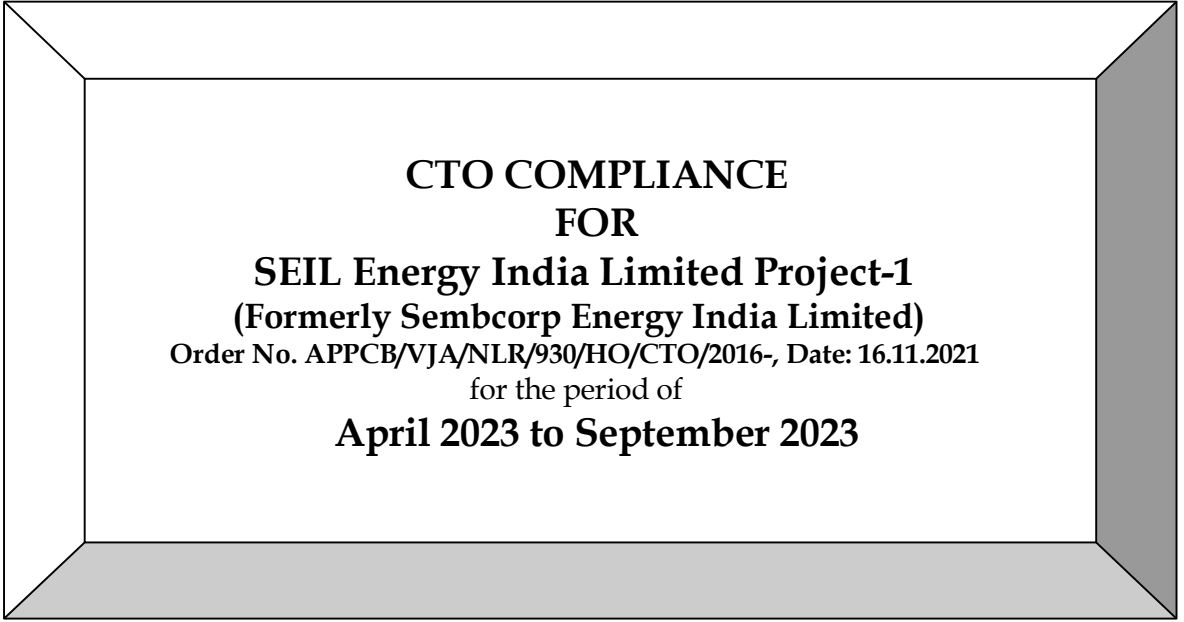
**Pavan Kumar Rao V**  
Head HSE - SEIL

Copy To: The Regional Officer, APPCB, Nellore

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

**Consent Order No. APPCB/VJA/NLR/930/HO/CTO/2016 Dated: 16.11.2021**

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**Consent Order No. APPCB/VJA/NLR/930/HO/CTO/2016 Dated: 16.11.2021**

<b>Compliance of CTO Conditions</b>		
<b>S. No</b>	<b>Condition</b>	<b>Compliance Status</b>
<b>SCHEDULE-A</b>		
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.	<b>Complying.</b> Being done proactively.
2.	The industry shall carryout analysis of wastewater discharges or emissions through chimneys for the parameters mentioned in this order on quarterly basis and submit to the Board.	<b>Complying.</b> Wastewater Analysis Report & Emission monitoring report conducted by MoEF&CC approved third party and are attached as <b>Annexure-I &amp; II.</b>
3.	All the rules & Regulations notified by Ministry of Law and Justice, Government of India regarding Public liability Insurance Act, 1991 should be followed as applicable.	<b>Complying.</b> A Copy of latest PLI is attached as <b>Annexure-III.</b>
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, E(P) Rules 1986 & amendments thereof.	<b>Complying.</b> Environment Statement in Form-V has been submitted for FY 2022-23.

**Consent Order No. APPCB/VJA/NLR/930/HO/CTO/2016 Dated: 16.11.2021**

<b>S. No</b>	<b>Condition</b>	<b>Compliance Status</b>
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 CTO conditions for obtaining Consent & HW Authorization of the Board.	Noted
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
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.
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	Noted.

**Consent Order No. APPCB/VJA/NLR/930/HO/CTO/2016 Dated: 16.11.2021**

	other competent authority as per the Rules in vogue.	
<b>S. No</b>	<b>Condition</b>	<b>Compliance Status</b>
11.	The industry may explore the possibility of tapping the solar energy for their energy requirements.	<b>Complying.</b> Plant 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.	<b>Complying.</b> 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 also.
<b>SCHEDULE-B</b>		
<b>Special Conditions</b>		
<b>S. No</b>	<b>Condition</b>	<b>Compliance Status</b>
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.
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.	<b>Complied.</b> SEIL has provided 70 Nos. 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.

<b>Water Pollution</b>																																																	
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="11">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>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 rowspan="11">5 to 8</td> <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	Hexavalent Chromium	1.0 mg/l	Bio-assay test	90% survival fish after 96 hours in 100% effluents	5 to 8	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><b>Complying.</b>          Effluent Analysis Monitoring Reports carried out by MoEF&amp;CC approved third Party consultant are attached as <b>Annexure-I</b>.</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="7">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>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><b>Complying.</b>          The average seawater with draw during April to September 2023 is 65020.00 m3/day which is well within permissible limits.          We are regularly submitting monthly water consumption report to state board on regular basis.</p>													
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<b>S. No</b>	<b>Condition</b>	<b>Compliance Status</b>
5.	The industry shall maintain separate digital water meters in the intake point of sea water (i.e., at seacoast) with totalizer facility unit wise to assess daily water consumption quantity instead of cumulative water consumptions.	<p><b>Complying.</b></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 logbook.</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><b>Complying.</b></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><b>Complying.</b></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>
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.	<p><b>Complying.</b></p> <p>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.</p>

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S. No	Condition	Compliance Status												
<b>Air Pollution:</b>														
9.	<p>The emissions shall not contain constituents in excess of the prescribed limits mentioned below:</p> <table border="1" data-bbox="277 569 920 684"> <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	<p><b>Complying.</b>            SEIL is Complying with the Emission norms of Particulate Matter. Stack Emission Monitoring reports are attached as <b>Annexure-II.</b></p>						
Chimney No.	Parameter	Emission standards in mg/Nm <sup>3</sup>												
1 - 2	Particulate Matter	50												
10.	<p>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.</p> <p>Standards for other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No.B-29016/20/90/PCI-I, Date 18.11.2009.</p> <p>Noise Levels:            Day time (6 AM to 10 PM) - 75 dB (A)            Nighttime (10 PM to 6 AM) - 70 dB (A)</p>	<p><b>Complying.</b>            SEIL is complying with Ambient Air Quality parameters as prescribed in NAAQM Standards.</p> <p>Ambient Air Quality Monitoring reports and Noise Monitoring reports conducted by MoEF&amp;CC approved third party consultant are attached as <b>Annexure-IV &amp; V.</b></p>												
11.	<p>The emissions shall not contain constituents in excess of the prescribed limits mentioned below:</p> <table border="1" data-bbox="277 1478 937 1667"> <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>Particulate 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	Particulate 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><b>Complying.</b>            SEIL is Complying with the Emission norms of Particulate Matter, Oxides of Nitrogen and Mercury.</p> <p>Stack Emission Monitoring Reports performed by MoEF&amp;CC approved third Party consultant are attached as <b>Annexure-II.</b></p>
Chimney No.	Parameter	Emission standards												
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<p>12.</p>	<p>The industry shall comply with emission limits for DG sets of capacity up to 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><b>Complying.</b></p> <p>SEIL is complying with the applicable emission norms.</p> <p>DG stack Emissions is being monitored by MoEF&amp;CC approved third party consultant and report attached as <b>Annexure-VI.</b></p>
<p>13.</p>	<p>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>	<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.</p> 


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		<p>In addition, SEIL has also installed adequate water sprinklers &amp; water hydrant system in coal yard to mitigate fugitive emission.</p> 
14.	<p>The industry shall regularly operate water sprinklers provided to control stock yard to mitigate fugitive dust on the surroundings from coal handling area.</p>	<p><b>Complying.</b></p> <p>SEIL has installed adequate no. of water sprinklers in coal yard to mitigate fugitive emission which are regularly being operated. Water consumption is being submitted to state board on monthly basis.</p> 

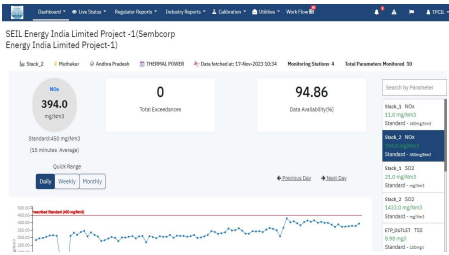

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15.	The industry shall provide necessary air pollution control systems at coal transfer points in coal conveyer system from port boundary to industry premises within 3 months.	<p><b>Complying.</b></p> <p>Entire coal transportation from port boundary to industry premises is through closed pipe conveyors only. All the 9 coal transfer points, and coal crushers are provided with Dry Fog Dust Extraction System (DFDS) for mitigating fugitive emissions.</p> 
16.	The industry shall upgrade the air pollution control systems at coal crusher within 3 months.	<p><b>Complied.</b></p> <p>Coal crushers are provided with Dry Fog Dust Suppression System.</p>
17.	The industry shall provide separate energy meters along with totalizer facility for each ESP.	<p><b>Complying.</b></p> <p>SEIL has provided separate energy meters to monitor Power Consumption of ESP.</p>
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.	<p><b>Complying.</b></p> <p>SEIL is committed to commission Flue Gas Desulfurization (FGD) to meet the SO<sub>x</sub> limits as per the latest Notifications/Directions issued.</p>
<b>General</b>		
19.	The industry shall handover the Original Consent Order dated 15.02.2016 to the RO, Nellore after receipt of this CTO order.	<p><b>Complied.</b></p>

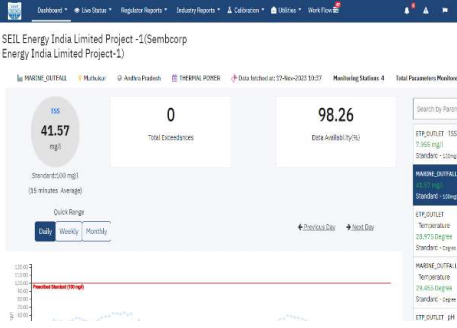
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20.	<p>The industry shall maintain the following records and the same shall be made available to the inspecting officers of the Board:</p> <p>a. Daily production details (ER-1 Central Excise Returns).</p> <p>b. Quantity of Effluents generated, treated, recycled/ reused and disposed.</p> <p>c. Logbooks for pollution control systems.</p> <p>d. Characteristics of effluents and emissions.</p> <p>e. Hazardous/Non-Hazardous solid waste generated and disposed.</p> <p>f. Inspection book.</p> <p>g. Manifest copies of hazardous.</p>	<p><b>Complying.</b></p> <p>All such applicable records are being regularly maintained.</p>												
21.	<p>The industry shall dispose solid waste (non-Hazardous Waste) as follows:</p> <table border="1" data-bbox="280 1150 919 1524"> <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><b>Complying.</b></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 and have achieved the same during the period from Apr. to Sep 2023.</li> <li>Bottom ash is being sold to Brick</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											

**Consent Order No. APPCB/VJA/NLR/930/HO/CTO/2016 Dated: 16.11.2021**

		<p>Manufacturers for free of cost.          SEIL has installed and commissioned Fly Ash classification unit of 5 Lakh Tonne per annum in the site for facilitating exports.</p>
<p>22.</p>	<p>The industry shall relocate the CAAQM station provided at sea intake point to suitable location in consultation with RO, Nellore.</p>	<p><b>Complied.</b>          SEIL has provided 4 No's of Continuous AAQM stations to cover both upwind and downwind directions for all the seasons.          The said condition was omitted in the CTO amendment order No: APPCB/ VJA/ NLR/ 930/ HO/ CTO/ 2019 issued dated 13.07.2019.</p>
<p>23.</p>	<p>The industry shall operate CAAQM stations for monitoring SPM, SO<sub>2</sub>, and NO<sub>x</sub> with recording facility and maintain connectivity to PCB server.</p>	<p><b>Complying.</b>          The Ambient Air Quality of the plant area and surroundings is being continuously monitored through 4 No's Continuous Ambient Air Quality Monitoring Station (CAAQMS). The data is being uploaded to PCB server on 24x7 real-time basis.</p>  

**Consent Order No. APPCB/VJA/NLR/930/HO/CTO/2016 Dated: 16.11.2021**

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>SEIL has provided Online Stack Emission Monitoring system &amp; Effluent Quality Monitoring system and real time data sent to 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><b>Complying.</b>          Regular calibration of the CAAQMS &amp; online stack monitoring system is being carried out.</p>
26.	The industry shall dispose 100% of fly ash generated as per the Fly ash Notification.	<p><b>Complying.</b>          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. MoU are signed with brick manufacturers, traders and cement plants for ash utilization. Dedicated Fly Ash Management Cell has been formed to have focused efforts and to sustain 100% fly ash utilization.</p>
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><b>Complying.</b>          SEIL has developed scientifically designed greenbelt with adequate tree density. Native species have</p>

**Consent Order No. APPCB/VJA/NLR/930/HO/CTO/2016 Dated: 16.11.2021**

		<p>been chosen for plantation. An area of about 452 acres area is being brought under green cover in phased wise manner covering periphery, Coal yard and ash pond area.</p> <p>Own Nursery has also been developed inside the plant premises. Plantation photos attached as <b>Annexure VII</b> with the report.</p>
28.	<p>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>	<p><b>Complying.</b></p> <p>The copy of PLI is being submitted to APPCB Regional office on regular basis.</p> <p>PLI Policy attached as <b>Annexure-III</b></p>
29.	<p>The industry shall comply with Board directions issued from time to time.</p>	<p>Noted.</p>
30.	<p>The industry shall comply with standards and directions issued by CPCB/MoEF&amp;CC as and when notifications are issued.</p>	<p>Noted.</p>
31.	<p>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.</p>	<p><b>Complying.</b></p> <p>Plant is submitting the six-monthly CTO compliance report to APPCB on regular basis. The last six-monthly CTO compliance report was submitted vide letter No: SEIL P1/ APPCB/ BZA/2023/004 dated 23.06.2023.</p>

**Consent Order No. APPCB/VJA/NLR/930/HO/CTO/2016 Dated: 16.11.2021**

<b>Schedule-C</b>		
<b>S. No.</b>	<b>Condition</b>	<b>Compliance Status</b>
1	The authorized person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.	<b>Complying.</b>
2.	The authorization shall be produced for inspection at the request of an officer authorized by the State Pollution Control Board.	Noted.
3.	The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.	Noted.
4.	Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of this authorization.	Noted.
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 carry out mock drill in this regard at regular interval of time.	<b>Complying.</b> Onsite Emergency Management Plan is in place to meet any eventuality.  Periodic Environmental mock drills are being conducted regularly.
6.	The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty".	Noted.



**Consent Order No. APPCB/VJA/NLR/930/HO/CTO/2016 Dated: 16.11.2021**

7.	It is duty of the authorised person to take prior permission of the pollution Control Board to close 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.	<b>Complying.</b> All the Hazardous Wastes generated are being disposed to authorized vendors through APEMC following the manifest system.
9.	An application for the renewal of an authorisation shall be made as laid down under these Rules.	Noted.
10	Any other conditions for compliance as per the Guidelines issued by the MoEF&CC or CPCB from time to time.	Noted.
11.	Annual returns shall be filed by June 30 <sup>th</sup> for the period ensuring 31 <sup>st</sup> March of the year.	<b>Complying.</b> Plant has submitted the Hazardous Waste Annual returns in Form-4 to APPCB vide. SEILP1/APPCB/BZA/2023/003 dated 21.06.2023.
12.	The industry shall not store hazardous waste for more than 90 days as per the Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016.	<b>Complying.</b> Haz. Waste is disposed well within 90 days of generation through APEMC to Authorized TSDF/Recyclers only.
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.	<b>Complying.</b> Plant is storing the Used / Waste Oil and Used Lead Acid Batteries under a secured Haz. Waste Storage shed only.

**Consent Order No. APPCB/VJA/NLR/930/HO/CTO/2016 Dated: 16.11.2021**

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.	<b>Complying.</b> Hazardous wastes disposal is being done through APEMC online portal to authorized waste Recyclers only by following Manifest system & Manifests are being submitted to RO, APPCB. TREM cards are also 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.	<b>Complying.</b> Plant is maintaining Hazardous waste records in Form-3. Plant has submitted the Hazardous Waste Annual returns in Form-4 to APPCB vide SEILP1/APPCB/BZA/2023/003 dated 21 <sup>st</sup> Jun. 2023.



# 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: <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: ETP INLET</b> <b>Date of Monitoring: 24.05.2023</b> <b>Sample Collected By: Ganesh</b>	<b>Sample Registration Date: 25.05.2023</b> <b>Analysis Starting Date: 25.05.2023</b> <b>Analysis Completed Date: 29.05.2023</b> <b>Issue Date: 30.05.2023</b> <b>Lab Ref: SEPL/ES/SEILEILP/05-23/0001</b>

## TEST RESULT

S. NO.	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS
1.	pH	IS:3025 (Part-11)1983	--	6.7
2.	Total Dissolved Solids	IS:3025 (Part-15)1984	mg/l	813
3.	Total Suspended Solids	IS:3025 (Part-15)1984	mg/l	70
4.	Chemical Oxygen Demand	IS:3025 (Part-58)-1986	mg/l	72
5.	Biochemical Oxygen Demand (5 days at 20°C)	IS:3025 (Part-44)-1993	mg/l	25
6.	Oil & Grease	IS:3025 (Part-39)-1991	mg/l	2.3

Note: IS- Indian Standard

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.

**Discipline: Chemical**

**Group: Water**

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

**Date of Monitoring: 24.05.2023**

**Sample Collected By: Ganesh**

**Sample Registration Date: 25.05.2023**

**Analysis Starting Date: 25.05.2023**

**Analysis Completed Date: 29.05.2023**

**Issue Date: 30.05.2023**

**Lab Ref: SEPL/ES/SEILEILP/05-23/0002**

## TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARD
1.	pH	IS:3025 (Part-11)1983	--	7.5	5.5-9.0
2.	Total Dissolved Solids	IS:3025 (Part-15)1984	mg/l	465	2100
3.	Total Suspended Solids	IS:3025 (Part-15)1984	mg/l	54	200
4.	Chemical Oxygen Demand	IS:3025 (Part-58)-1986	mg/l	46	250
5.	Biochemical Oxygen Demand (5 days at 20°C)	IS:3025 (Part-44)-1993	mg/l	18	100
6.	Oil & Grease	IS:3025 (Part-39)-1991	mg/l	<1.0	10

Note: IS- Indian Standard

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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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- MAY 2023**

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

**Date of Monitoring: 24.05.2023**

**Sample Registration Date: 25.05.2023**

**Analysis Starting Date: 26.05.2023**

**Analysis Completed Date: 29.05.2023**

**Issue Date: 30.05.2023**

**Lab Ref: SEPL/ES/SEILEILP/05-23/0001**

## TEST RESULT

1. Time of Sampling ---- : 10:30 Hrs. to 11:30 Hrs.
2. Time Duration : 00:60 Hrs.
3. Ambient Temperature (° C) : 33.2
4. Flue gas Temperature (° C) : 143
5. Velocity of the flue gas (m/sec) : 25.1
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) : 2995171

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1.	Particulate Matter (PM)	IS 11255 (part-1)1985	mg/Nm <sup>3</sup>	<50	35.5
2.	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (part-2)1985	mg/Nm <sup>3</sup>	-	685
3.	Oxides of Nitrogen (NO <sub>x</sub> )	IS 11255 (part-7)1985	mg/Nm <sup>3</sup>	450	284
4.	Carbon Monoxide (CO)	NSPS Test Method-10	ppm	-	1.5
5.	Mercury as Hg	State of California Air Resources Board, Method 10A	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

**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- MAY 2023**

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

**Date of Monitoring: 24.05.2023**

**Sample Registration Date: 25.05.2023**

**Analysis Starting Date: 26.05.2023**

**Analysis Completed Date: 29.05.2023**

**Issue Date: 30.05.2023**

**Lab Ref: SEPL/ES/SEILEILP/05-23/0002**

## TEST RESULT

1. Time of Sampling ---- : 11:40 Hrs. to 12:30 Hrs.
2. Time Duration : 00:50 Hrs.
3. Ambient Temperature (° C) : 33.1
4. Flue gas Temperature (° C) : 143
5. Velocity of the flue gas (m/sec) : 25.12
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) : 3002342

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1.	Particulate Matter (PM)	IS 11255 (part-1)1985	mg/Nm <sup>3</sup>	<50	32.2
2.	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (part-2)1985	mg/Nm <sup>3</sup>	-	738
3.	Oxides of Nitrogen (NO <sub>x</sub> )	IS 11255 (part-7)1985	mg/Nm <sup>3</sup>	450	312
4.	Carbon Monoxide (CO)	NSPS Test Method-10	ppm	-	1.2
5.	Mercury as Hg	State of California Air Resources Board, Method 10A	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

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

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



Date: 20/11/2023

## Annexure-III

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

**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 Buddh 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-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.	
Discipline: Chemical	Sample Registration No :305/05/2023
Group: Atmospheric Pollution	Sample Registration Date:31.05.2023
Product: Ambient Air	Issue Date:05.06.2023
Location-1: Fire Station (Plant)	Lab Ref: SEPL/ES/SEILEILP/05-23/0001
	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
01.05.2023	33.5	24.7	7.2	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
02.05.2023	28.1	19.5	7.7	6.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.05.2023	32.3	27.3	7.5	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.05.2023	25.0	23.7	8.6	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.05.2023	32.4	25.3	7.4	7.0	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.05.2023	35.3	22.6	7.2	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.05.2023	31.7	24.4	7.4	6.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.05.2023	28.6	23.2	7.1	7.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.05.2023	23.2	19.1	8.2	6.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
30.05.2023	27.8	26.1	7.8	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	23.2	19.1	7.1	6.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	35.3	27.3	8.6	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	29.7	23.5	7.6	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	34.9	27.0	8.5	8.4	<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 / 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. 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

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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

Location-2: Pattapupalem village

Sample Registration No :305/05/2023

Sample Registration Date:31.05.2023

Issue Date :05.06.2023

Lab Ref: SEPL/ES/SEILEILP/05-23/0002

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
01.05.2023	35.1	23.5	7.4	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
02.05.2023	33.4	25.3	7.7	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.05.2023	24.7	19.7	7.3	7.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.05.2023	35.6	21.4	8.0	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.05.2023	37.9	22.3	7.6	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.05.2023	32.5	20.8	7.8	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.05.2023	30.2	26.6	8.0	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.05.2023	29.3	24.8	8.2	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.05.2023	21.2	20.2	7.9	6.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
30.05.2023	36.8	27.9	8.5	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	<b>21.2</b>	<b>19.7</b>	<b>7.3</b>	<b>6.1</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	<b>37.9</b>	<b>27.9</b>	<b>8.5</b>	<b>8.3</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	<b>31.6</b>	<b>23.2</b>	<b>7.8</b>	<b>7.3</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	<b>37.7</b>	<b>27.7</b>	<b>8.4</b>	<b>8.2</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

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

<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 No:</b> 305/05/2023
<b>Group:</b> Atmospheric Pollution	<b>Sample Registration Date:</b> 31.05.2023
<b>Product:</b> Ambient Air	<b>Issue Date:</b> 05.06.2023
<b>Location-3:</b> Painampuram Village	<b>Lab Ref:</b> SEPL/ES/SEILEILP/05-23/0003
	<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
01.05.2023	35.3	22.5	7.0	6.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
02.05.2023	37.5	25.7	7.2	6.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.05.2023	26.6	20.4	7.5	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.05.2023	33.7	28.8	8.3	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.05.2023	36.4	17.2	7.7	7.0	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.05.2023	31.9	21.3	7.3	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.05.2023	34.5	26.6	6.8	6.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.05.2023	38.2	24.1	7.1	6.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.05.2023	26.4	23.9	8.0	6.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
30.05.2023	28.3	18.1	7.6	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	<b>26.4</b>	<b>17.2</b>	<b>6.8</b>	<b>6.2</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	<b>38.2</b>	<b>28.8</b>	<b>8.3</b>	<b>7.6</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	<b>32.8</b>	<b>22.8</b>	<b>7.4</b>	<b>6.9</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	<b>38.1</b>	<b>28.4</b>	<b>8.2</b>	<b>7.6</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 / 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  
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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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

Location-4: Nelaturu Village

Sample Registration No: 305/05/2023

Sample Registration Date: 31.05.2023

Issue Date: 05.06.2023

Lab Ref: SEPL/ES/SEILEILP/05-23/0004

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
01.05.2023	31.3	22.5	7.4	6.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
02.05.2023	35.5	25.4	7.0	6.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.05.2023	32.7	20.2	7.8	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.05.2023	25.4	27.6	8.5	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.05.2023	31.3	21.2	7.4	7.0	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.05.2023	30.6	23.4	7.9	6.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.05.2023	38.2	21.5	7.3	6.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.05.2023	24.6	15.6	6.5	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.05.2023	30.8	21.7	6.9	6.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
30.05.2023	31.1	25.1	8.5	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	<b>24.6</b>	<b>22.5</b>	<b>7.4</b>	<b>6.7</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	<b>38.2</b>	<b>27.6</b>	<b>8.5</b>	<b>7.5</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	<b>31.1</b>	<b>22.4</b>	<b>7.5</b>	<b>6.9</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	<b>37.7</b>	<b>27.2</b>	<b>8.5</b>	<b>7.5</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  
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

## SUMMARY OF AMBIENT AIR QUALITY- MAY 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>	23.2	21.2	26.4	24.6
	Maximum		35.3	37.9	38.2	38.2
	Average		29.7	31.6	32.8	31.1
	98 Percentile		34.9	37.7	38.1	37.7
PM <sub>2.5</sub>	Minimum		19.1	19.7	17.2	22.5
	Maximum		27.3	27.9	28.8	27.6
	Average		23.5	23.2	22.8	22.4
	98 Percentile		27.0	27.7	28.4	27.2
SO <sub>2</sub>	Minimum		7.1	7.3	6.8	7.4
	Maximum		8.6	8.5	8.3	8.5
	Average		7.6	7.8	7.4	7.5
	98 Percentile		8.5	8.4	8.2	8.5
NO <sub>x</sub>	Minimum		6.2	6.1	6.2	6.7
	Maximum		8.6	8.3	7.6	7.5
	Average		7.1	7.3	6.9	6.9
	98 Percentile		8.4	8.2	7.6	7.5

K.S. Jay  
Verified by



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

## TEST REPORT

Annexure-V

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.)- MAY 2023

**Sampling Location-1:** Main Gate

**Sample Registration Date:** 25.05.2023

**Issue Date:** 30.05.2023

**Lab Ref:** SEPL/ES/SEILEILP/05-23/0001

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	24.05.2023	00:00	36.2
2		01:00	34.5
3		02:00	37.3
4		03:00	42.1
5		04:00	44.6
6		05:00	40.4
7		06:00	52.2
8		07:00	56.5
9		08:00	58.3
10		09:00	54.6
11		10:00	56.1
12		11:00	55.4
13		12:00	53.7
14		13:00	58.1
15		14:00	52.6
16		15:00	54.3
17		16:00	57.5
18		17:00	55.2
19		18:00	53.4
20		19:00	47.1
21		20:00	49.3
22		21:00	46.7
23		22:00	43.5
24		23:00	45.1

**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

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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.)- MAY 2023

**Sampling Location-2:** BTG Area

**Sample Registration Date:** 25.05.2023

**Issue Date:** 30.05.2023

**Lab Ref:** SEPL/ES/SEILEILP/05-23/0002

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	24.05.2023	00:00	36.5
2		01:00	42.3
3		02:00	44.4
4		03:00	47.2
5		04:00	45.3
6		05:00	40.6
7		06:00	45.1
8		07:00	52.5
9		08:00	55.3
10		09:00	53.0
11		10:00	54.6
12		11:00	56.5
13		12:00	54.2
14		13:00	51.6
15		14:00	55.7
16		15:00	53.3
17		16:00	52.4
18		17:00	51.7
19		18:00	46.5
20		19:00	44.1
21		20:00	48.6
22		21:00	45.0
23		22:00	41.7
24		23:00	43.4

**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*  
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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.)- MAY 2023

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

**Sample Registration Date:** 25.05.2023

**Issue Date:** 30.05.2023

**Lab Ref:** SEPL/ES/SEILEILP/05-23/0003

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	24.05.2023	00:00	45.1
2		01:00	42.5
3		02:00	46.4
4		03:00	43.6
5		04:00	48.1
6		05:00	44.5
7		06:00	52.3
8		07:00	48.8
9		08:00	55.4
10		09:00	51.3
11		10:00	59.7
12		11:00	55.1
13		12:00	65.3
14		13:00	63.9
15		14:00	60.2
16		15:00	54.7
17		16:00	56.4
18		17:00	55.2
19		18:00	57.7
20		19:00	53.4
21		20:00	51.5
22		21:00	44.4
23		22:00	42.8
24		23:00	40.2

**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: 28.02.2024

*K.S.Laj*  
Verified by



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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:** Noise Monitoring (24 Hrs.)- MAY 2023

**Sampling Location-4:** Pattapupalem Village

**Sample Registration Date:** 25.05.2023

**Issue Date:** 30.05.2023

**Lab Ref:** SEPL/ES/SEILEILP/05-23/0004

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	24.05.2023	00:00	33.1
2		01:00	31.3
3		02:00	35.7
4		03:00	32.5
5		04:00	31.4
6		05:00	36.6
7		06:00	37.5
8		07:00	39.8
9		08:00	36.4
10		09:00	42.1
11		10:00	40.4
12		11:00	43.1
13		12:00	46.7
14		13:00	41.3
15		14:00	43.5
16		15:00	45.8
17		16:00	47.9
18		17:00	46.6
19		18:00	44.1
20		19:00	46.3
21		20:00	44.5
22		21:00	47.2
23		22:00	43.6
24		23:00	37.4

**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: 11180097641

Calibration Due: 28.02.2024

*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.)- MAY 2023

**Sampling Location-5:** Painampuram Village

**Sample Registration Date:** 25.05.2023

**Issue Date:** 30.05.2023

**Lab Ref:** SEPL/ES/SEILEILP/05-23/0005

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	24.05.2023	00:00	35.7
2		01:00	33.6
3		02:00	35.2
4		03:00	34.4
5		04:00	37.5
6		05:00	39.4
7		06:00	35.7
8		07:00	42.9
9		08:00	45.4
10		09:00	44.8
11		10:00	48.3
12		11:00	46.1
13		12:00	42.6
14		13:00	43.2
15		14:00	45.4
16		15:00	43.0
17		16:00	46.4
18		17:00	45.7
19		18:00	47.5
20		19:00	44.6
21		20:00	42.7
22		21:00	39.4
23		22:00	31.6
24		23:00	35.2

**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: Metravi /SL-3010

Serial No: 11180097642

Calibration Due: 28.02.2024

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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.)- MAY 2023**

**Sampling Location-6: Nelaturu Village**

**Sample Registration Date: 25.05.2023**

**Issue Date: 30.05.2023**

**Lab Ref: SEPL/ES/SEILEILP/05-23/0006**

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	24.05.2023	00:00	35.2
2		01:00	33.5
3		02:00	35.3
4		03:00	36.4
5		04:00	34.6
6		05:00	37.2
7		06:00	35.4
8		07:00	37.7
9		08:00	42.1
10		09:00	45.3
11		10:00	43.5
12		11:00	44.7
13		12:00	47.3
14		13:00	45.1
15		14:00	48.4
16		15:00	41.9
17		16:00	43.7
18		17:00	49.5
19		18:00	42.1
20		19:00	43.7
21		20:00	37.0
22		21:00	40.8
23		22:00	35.6
24		23:00	38.2

**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: Metravi /SL-3010

Serial No: 11180097643

Calibration Due: 28.02.2024

*K.S.Laj*  
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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.)- MAY 2023

**Date of Sampling:** 24-05-2023

**Sample Registration Date:** 25.05.2023

**Issue Date:** 30.05.2023

**Lab Ref:** SEPL/ES/SEILEILP/05-23/0007

## 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	36.5	40.2	31.3	31.6	33.6
Maximum	58.3	56.5	65.3	47.9	48.3	49.5
Average	49.4	48.4	51.6	40.6	41.1	40.6

*K.S.Lal*  
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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

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- MAY 2023**

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

Date of Monitoring: **25.05.2023**

Sample Registration Date: 26.05.2023

Analysis Starting Date: **26.05.2023**

Analysis Completed Date: **29.05.2023**

Issue Date: **30.05.2023**

Lab Ref: **SEPL/ES/SEILEILP/05-23/0001**

### TEST RESULT

1. Time of Sampling ---- : 10:00 Hrs. to 10:25 Hrs.
2. Time Duration : 00:25 Hrs.
3. Ambient Temperature (° C) : 34.8
4. Flue gas Temperature (° C) : 146
5. Velocity of the flue gas (m/sec) : 14.87
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) : 7778

S.NO.	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1.	Particulate Matter	IS 11255 (part-1)1985	mg/Nm <sup>3</sup>	43.3	75
2.	Sulphur Dioxide	IS 11255 (part-2)1985	mg/Nm <sup>3</sup>	525	-
3.	Oxides of Nitrogen	IS 11255 (part-7)1985	mg/Nm <sup>3</sup>	148	360
4.	Carbon Monoxide	Gas Chromatography	ppm	46	150
5.	Non-Methane Hydro Carbon (NMHC)	Gas Chromatography	mg/Nm <sup>3</sup>	42	100

### Instrument Details:

Instrument : 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

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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- MAY 2023**

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

Date of Monitoring: 25.05.2023

Sample Registration Date: 26.05.2023

Analysis Starting Date: 26.05.2023

Analysis Completed Date: 29.05.2023

Issue Date: 30.05.2023

Lab Ref: SEPL/ES/SEILEILP/05-23/0002

## TEST RESULT

1. Time of Sampling ---- : 10:35 Hrs. to 11:00 Hrs.
2. Time Duration : 00:25 Hrs.
3. Ambient Temperature (° C) : 34.8
4. Flue gas Temperature (° C) : 146
5. Velocity of the flue gas (m/sec) : 14.87
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) : 7432

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1.	Particulate Matter	IS 11255 (part-1)1985	mg/Nm <sup>3</sup>	43.5	75
2.	Sulphur Dioxide	IS 11255 (part-2)1985	mg/Nm <sup>3</sup>	487	-
3.	Oxides of Nitrogen	IS 11255 (part-7)1985	mg/Nm <sup>3</sup>	157	360
4.	Carbon Monoxide	Gas Chromatography	ppm	43	150
5.	Non Methane Hydro Carbon (NMHC)	Gas Chromatography	mg/Nm <sup>3</sup>	45	100

### Instrument Details:

Instrument : 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

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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 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- MAY 2023**

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

Date of Monitoring: 25.05.2023

Sample Registration Date: 26.05.2023

Analysis Starting Date: 26.05.2023

Analysis Completed Date: 29.05.2023

Issue Date: 30.05.2023

Lab Ref: SEPL/ES/SEILEILP/05-23/0003

## TEST RESULT

1. Time of Sampling ---- : 11:05 Hrs. to 11:25 Hrs.
2. Time Duration : 00:20 Hrs.
3. Ambient Temperature (° C) : 34.6
4. Flue gas Temperature (° C) : 152
5. Velocity of the flue gas (m/sec) : 14.58
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) : 7245

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1.	Particulate Matter	IS 11255 (part-1)1985	mg/Nm <sup>3</sup>	40.8	75
2.	Sulphur Dioxide	IS 11255 (part-2)1985	mg/Nm <sup>3</sup>	51.6	-
3.	Oxides of Nitrogen	IS 11255 (part-7)1985	mg/Nm <sup>3</sup>	173	360
4.	Carbon Monoxide	Gas Chromatography	ppm	47	150
5.	Non Methane Hydro Carbon (NMHC)	Gas Chromatography	mg/Nm <sup>3</sup>	35	100

### Instrument Details:

Instrument : 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  
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**GREEN BELT/ GREEN COVER DEVELOPMENT IN SITE**



**GREEN COVER AROUND PERIPHERY**



**GREEN COVER ALONG THE PLANT ROADS**



**GREEN COVER ALONG PIPE RACK & INTERNAL ROADS**



**GREEN COVER INSIDE THE PLANT**



**GREEN COVER ALONG MAIN PLANT ROAD**