



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

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SEIL P1/MoEF&CC/Chennai/2023/005  
27<sup>th</sup> Nov. 2023

**The Regional Director,**  
Regional Office (Southeastern Region),  
Ministry of Environment, Forest & Climate Change,  
1st & 2nd Floor, HEPC Building, No. 34,  
Cathedral Garden Road, Nungambakkam,  
Chennai- 600034.

**Sub:** Submission of Half Yearly EC Compliance Report for the period Apr. to Sep. 2023

**Ref:** EC Letter No. J 13012/02/2009-IA. II (T), Dated: 04.11.2009, subsequent amendment dated: 02.03.2015.

**Respected Sir,**

In compliance to the conditions of above reference, we are submitting herewith the Half Yearly EC compliance report for the period, April 2023 to September 2023 of SEIL Energy India Limited Project-1 (Formerly Sembcorp Energy India Limited) situated at Nellore, Andhra Pradesh.

Hope you find the above in order.

**Thanking you,**

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

**Pavan Kumar Rao V**  
Head HSE

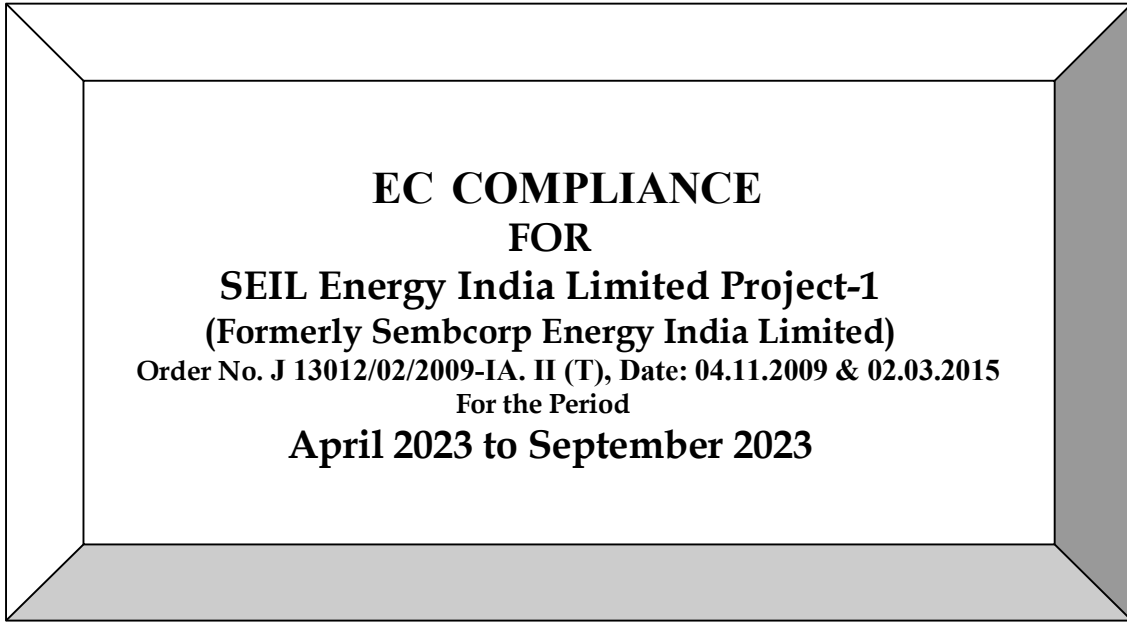
**Encl.:** As Above

**Copy To:** 1. The Director, IA.I, MoEF&CC, New Delhi  
2. The Joint Director, Scientist D, MoEF&CC, IRO, Vijayawada  
3. The Regional Officer, APPCB, Nellore

*M/s. SEIL Energy India Limited Project-1  
(Formerly Sembcorp Energy India Limited),  
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SPSR Nellore (Dist.), Andhra Pradesh.*

**EC No. J 13012/02/2009-IA. II (T), Date: 04.11.2009 & 02.03.2015**

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**01. Background:**

SEIL Energy India Ltd. Project-1 (Formerly Sembcorp Energy India Limited) is a leading independent thermal power plant situated in Nellore district of Andhra Pradesh. The capacity of the plant is 2x660 MW and is under operation since October 2015.

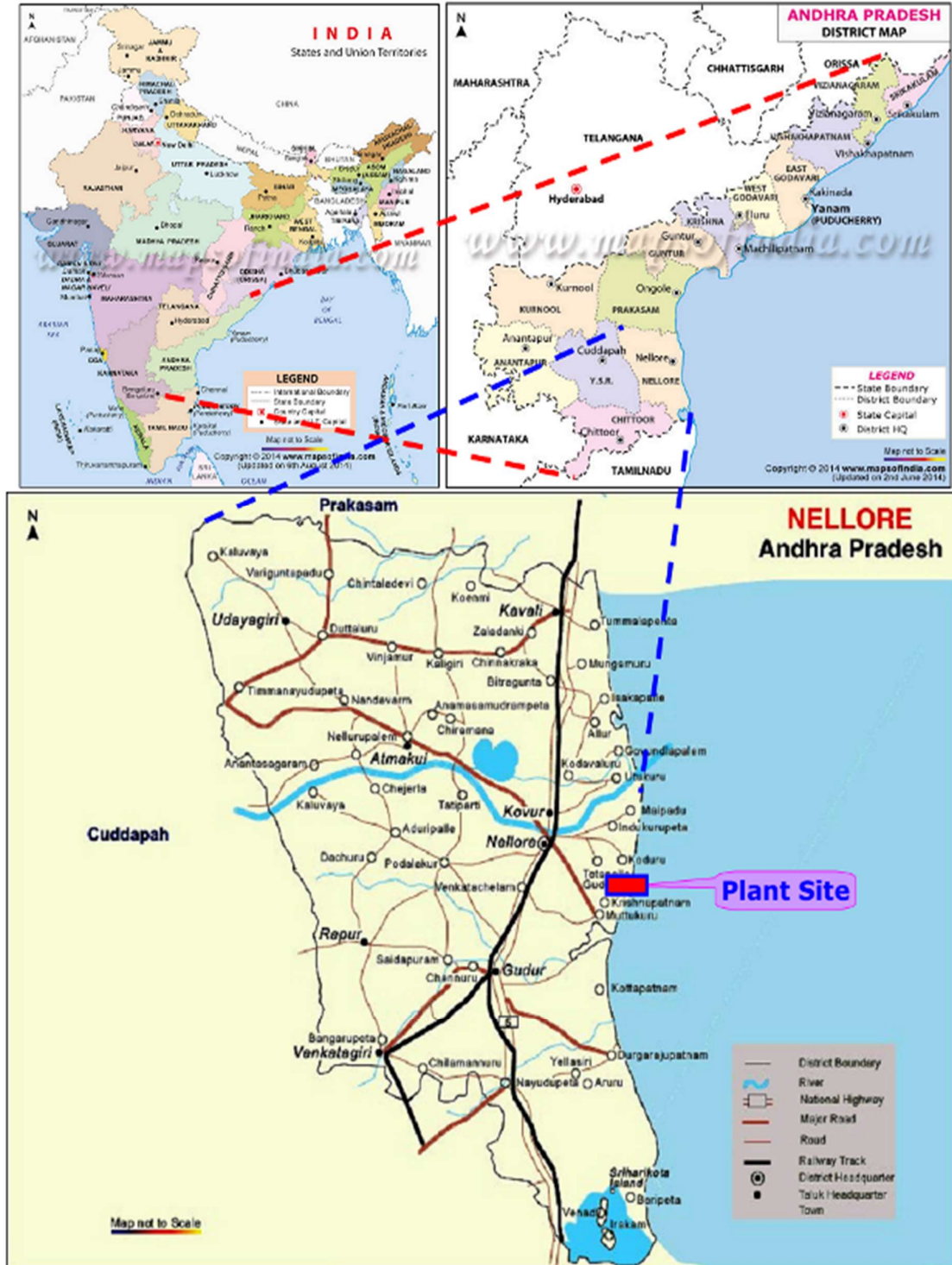
The location map and key map of project site are shown in **Figure-1 & Figure-2** respectively. The 10 km radius topographical map around the project is shown in **Figure-3**. The latitude & longitude of North South extremes of Site are 80°08'35.956''E & 14°19'5.211''N and 80°09'16.325''E & 14°21'0.874''N respectively.

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Fig. - 1 (LOCATION MAP)





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**Fig. - 2 (KEY MAP OF PROJECT SITE)**

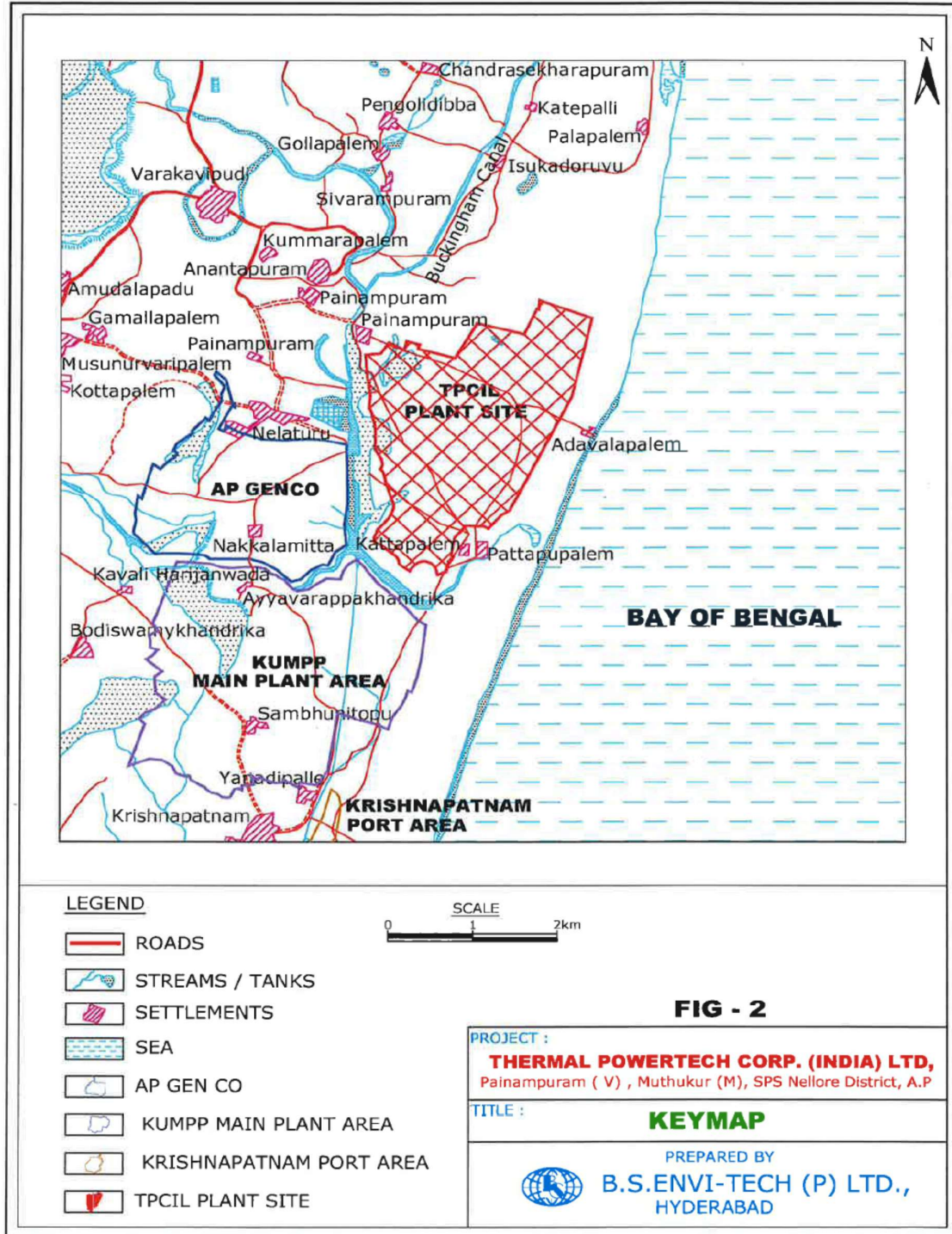
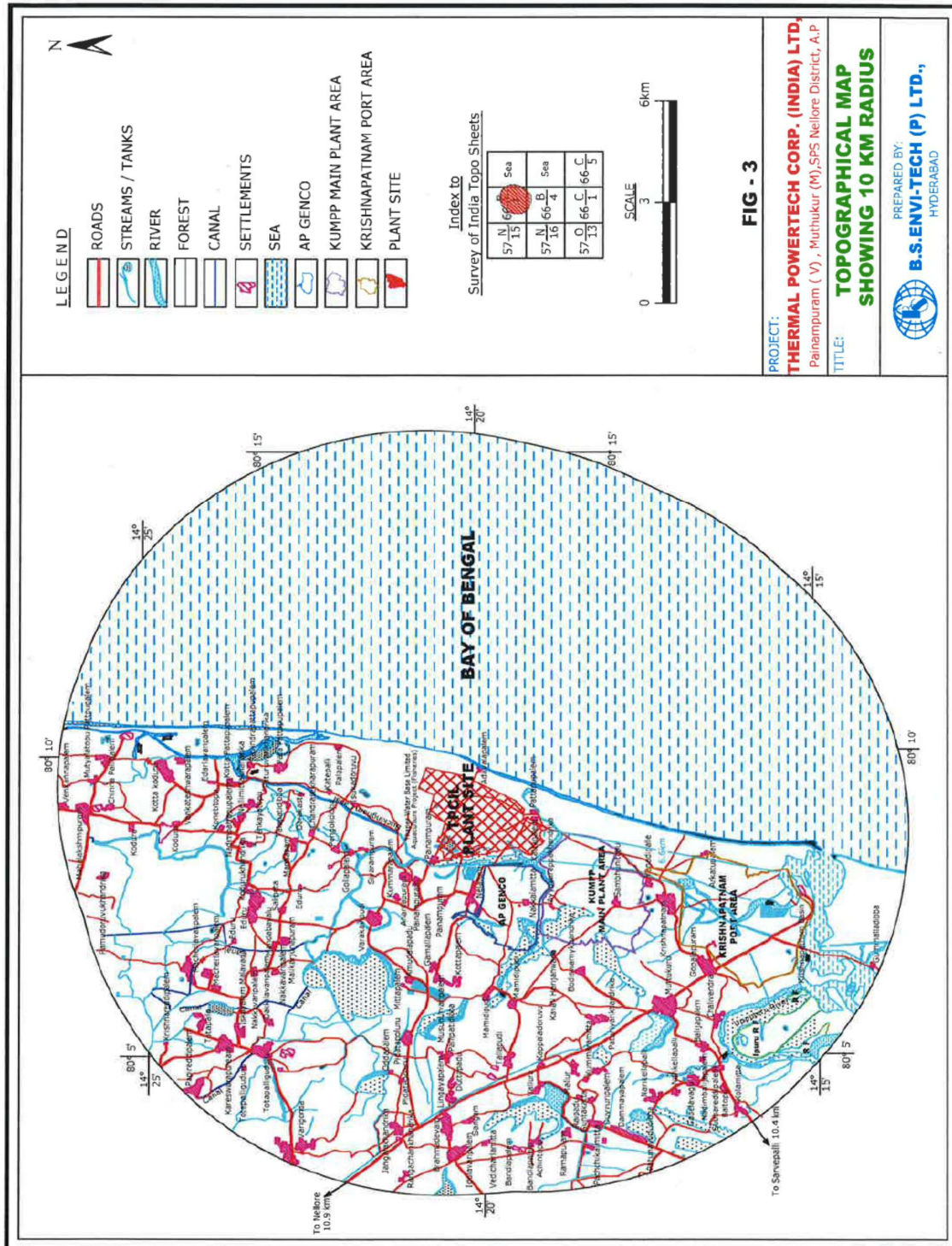


Fig. – 3 (TOPOGRAPHICAL MAP OF 10 KM RADIUS AREA)



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**02. Statutory Approvals/Clearances:**



The following statutory approvals and clearances were received for the Project:

S. No.	Authorization	Accorded By	Validity
1	Environment Clearance	Ministry of Environment Forest & Climate Change, Govt. of India	Granted with EC No. J13012/02/2009-IA. II (T), Date: 04.11.2009 & 02.03.2015
2	CRZ Clearance	Ministry of Environment Forest & Climate Change, Govt. of India	Granted with F. No. 11-129/2010-IA.III. Dated: 5 <sup>th</sup> December, 2011
3	Combined Consent for Operation (CFO) & Hazardous Waste Authorization	Andhra Pradesh Pollution Control Board, Andhra Pradesh	Granted with Order No. Order No APPCB/ VJA/ NLR/ 930/HO/CFO/2016 Valid Till 16 <sup>th</sup> Nov. 2026

**CONDITION WISE COMPLIANCE TO ACCORDED ENVIRONMENT CLEARANCE**

<b>S No.</b>	<b>Condition</b>	<b>Compliance Status</b>
4. i	Status of implementation of 100% utilisation of Fly Ash generated shall be submitted to the Ministry within six months of operation of the plant.	<p><b>Complying.</b></p> <p>Plant is achieving 100% fly ash utilization since September 2019.</p> <p>Annual Fly Ash utilization report for FY 22-23 is submitted to MoEF&amp;CC vide letter no. SEILP1/MoEF&amp;CC/Chennai/2023/002 dated 29<sup>th</sup> May 2023.</p>
ii	Stacks of 275 m height (Bi-Flue for Stage -I and Single Flue for Stage II) shall be provided with continuous online monitoring equipment for SO <sub>x</sub> , NO <sub>x</sub> and PM. Exit Velocity of flue gases shall not be less than 25 m/sec. Mercury emissions from stack shall also be monitored on periodic basis.	<p><b>Complying.</b></p> <p>One Bi-Flue gas chimney of 275 m height is provided along with continuous online emission monitoring equipment for measuring SO<sub>x</sub>, NO<sub>x</sub> and Particulate Matter.</p>  <p>Mercury is being monitored on quarterly basis.</p> <p>Exit velocity of flue gas is well within prescribed norms.</p> <p>Stack Emission Monitoring Reports carried out by MoEF&amp;CC approved vendor which is are attached as <b>Annexure-I.</b></p>
iii	Possibility for installation of combined intake with neighbouring Power Plants shall be examined and in the event of non-feasibility adequate justification shall be submitted within a period of six months.	Installation of combined intake with neighbouring Power Plant was not found feasible.




S No.	Condition	Compliance
iv	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm <sup>3</sup> .	<p><b>Complying.</b></p> <p>Electrostatic Precipitators (ESPs) with more than 99.9% efficiency are installed to control the Particulate Matter Emission withing prescribed standards of 50 mg/Nm<sup>3</sup>.</p> 
v	Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	<p><b>Complying.</b></p> <p>Bag filters are provided for coal crusher.</p> 

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<b>S No.</b>	<b>Condition</b>	<b>Compliance</b>
		<p>Dust Suppression systems has been provided at Transfer Points to further minimize fugitive dust.</p> <p>Additional water sprinklers have been provided to suppress fugitive emissions at coal yard.</p> <p>SEIL has also provided wind barriers with 3-5 layers of thick Conocarpus trees (wind resistant plants) all around coal yard, which are designed to arrest spreading of fugitive dust emissions. (Photo attached).</p>


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S No.	Condition	Compliance
vi	<p>Fly ash shall be collected in dry form and storage facility (silos) shall be provided (as applicable). 100% fly ash utilisation shall be ensured from 4<sup>th</sup> year onwards. Unutilized fly ash shall be disposed off in the ash pond in the form of slurry form. Mercury and other heavy metals (As, Hg, Cr, Pb etc.) will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.</p>	<p>Fly ash is collected in dry form and stored in silos of 3x2000 cum capacity for disposal to various users. Unutilised fly ash is being disposed to the ash pond in lean slurry form.</p>  <p>Plant is achieving 100% fly ash utilization since September 2019.</p> <p>Annual Fly Ash utilization report for FY 22-23 is submitted to MoEF&amp;CC vide letter no. SEILP1/MoEF&amp;CC/Chennai/2023/002 dated 29<sup>th</sup> May 2023.</p> <p>SEIL has also installed and commissioned fly ash classification unit of 5 Lakh Tonne per annum within the site.</p> <p>Bottom Ash heavy metals analysis reports, Piezo Wells ground water quality reports &amp; Ash Pond Effluent Quality Monitoring reports performed by MoEF&amp;CC approved third Party are attached as <b>Annexure- II, III &amp; IV</b> respectively.</p>





S No.	Condition	Compliance
vii	Ash Pond shall be lined with HDP/LDP lining. Adequate safety measures shall also be implemented to protect the ash dyke from breached.	<p><b>Complying.</b></p> <p>Ash pond is lined with impervious HDPE liner.</p>  <p>The dyke is designed, and adequate safety measures incorporated.</p>
viii	Closed cycle cooling system with natural draft cooling towers shall be provided. The Effluents shall be treated as per the prescribed norms.	<p><b>Complying.</b></p> <p>Natural Draft Cooling Towers are installed at the site.</p>  <p>ETP consists of Flash Mixer, Lamella Clarifier, Sludge Pit, Oil Water Separation Unit, Oil water collection tank and Central Monitoring Basin &amp; Dosing system. It is used to treat the effluents to meet the prescribed norms. Analysis Reports attached as <b>Annexure-V</b>.</p> 

<b>S No.</b>	<b>Condition</b>	<b>Compliance</b>
ix	No ground water shall be extracted for the project work at any stage.	<b>Complied.</b> No ground water was extracted for the project work. Entire water requirement of the plant is being met from seawater.
x	Hydrogeological study of the area shall be reviewed annually and results to be submitted to the Ministry and concerned agency in the State Government. In case adverse impact on ground water quality and quantity is observed, immediate mitigating steps to contain any adverse impact on ground water shall be undertaken.	<b>Complying.</b> Hydrogeological Study is being conducted annually and latest report submitted to statutory body on 26 <sup>th</sup> April 2023.
xi	Minimum required environmental flow suggested by the Competent Authority of the State Government shall be maintained in the Channel/rivers even in lean season.	<b>Not applicable.</b> Not applicable as SEIL is not extracting River/ canal water. Entire water requirement for plant operations is being met through seawater.
xii	The treated effluents conforming to the prescribed standards should be only discharged. Arrangement shall be made that effluents and storm water do not get mixed.	<b>Complying.</b> ETP and STP are in operation for treating wastewater generated in the plant to meet the prescribed standards. Treated water is being used for Dust suppression and Horticulture.  Storm water system is adequately designed to avoid mixing with effluents and has separate disposal system. ETP treated effluent and Marine outfall water analysis report are attached as <b>Annexure-V &amp; VI</b> .

<b>S No.</b>	<b>Condition</b>	<b>Compliance</b>
xiii	A sewage treatment plant shall be provided, and the treated sewage shall be used for raising greenbelt/plantation.	<p><b>Complying.</b></p> <p>Sewage Treatment Plant (STP) is provided and operational for treating the domestic sewage generated.</p>  <p>The treated domestic wastewater is used for greenbelt development.</p> <p>STP Treated effluent analysis reports are attached as <b>Annexure-VII.</b></p>
xiv	Rainwater harvesting should be adopted. Central Groundwater Authority/Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of clearance and details shall be furnished.	<p><b>Complying.</b></p> <p>Approved Third party studies have carried out and rainwater harvesting pits are constructed and maintained along with the storm water drains.</p> <p>The rainwater from storm water drains is collected in RWH ponds.</p>
xv	Adequate safety measures shall be provided in the plant area to check /minimize spontaneous fires in coal yard, especially during summer season. Copy of these measures with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry.	<p><b>Complying.</b></p> <p>The coal yard is provided with fire hydrant system and water sprinklers arrangement to control spontaneous combustion of coal. Photos provided in the report. Plant layout map with coal yard location is attached as <b>Annexure-VIII.</b></p>

<b>S No.</b>	<b>Condition</b>	<b>Compliance</b>
xvi	Storage facilities for auxiliary liquid fuel such as LDO and HFO/LSHS shall be made in the plant areas in consultation with Department of Explosives, Nagpur. Sulphur content in the liquid fuel will not exceed 0.5%. Disaster Management plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.	<b>Complying.</b> SEIL has provided safe & secure storage facilities for LDO and HFO. These facilities are certified by the Chief Controller of Explosives, Nagpur. Adequate firefighting systems are provided. Onsite Emergency Management Plan is in place to meet any eventuality.
xvii	Regular monitoring of ground water in and around the ash pond area including heavy metals (Hg, Cr, As, Pb) shall be carried out, records maintained, and six-monthly reports shall be furnished to the regional office of this Ministry. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the Project.	<b>Complying.</b> Piezometer wells are provided around ash pond site. Regular monitoring of ground water in and around the ash pond area is being carried out. Piezo well Analysis Reports are attached as <b>Annexure-III</b> .
xviii	Shelter Belt consisting of 3 tiers of plantation around the plant of 100 m width and adequate tree density shall be developed.	<b>Complying.</b> SEIL is developing scientifically designed greenbelt with adequate tree density. Native species have been chosen for plantation. An area of about 452 acres area is being brought under green cover in phased wise manner. Plantation photos attached in the report.
xix	First Aid and sanitation arrangement shall be made for the drivers and other contract workers during construction phase.	<b>Complied.</b> Necessary facilities have been provided during construction period.

<b>S No.</b>	<b>Condition</b>	<b>Compliance</b>
xx	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dBA. For people working in the high noise area requisite personal protective equipment like earplugs / earmuffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc., shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non-noisy/less noisy areas.	<p><b>Complying.</b></p> <p>SEIL has ensured that the ambient noise level at the plant boundary shall comply with National ambient noise standards. Quarterly monitoring of noise level data is Complying to the standards.</p> <p>Workers are provided with adequate personal protective equipment.</p> <p>Necessary medical examinations are conducted, and records are being maintained.</p> <p>APPCB approved third party Noise Quality Monitoring Reports are attached as <b>Annexure- IX.</b></p>
xxi	Regular monitoring of ground level concentration of SO <sub>x</sub> , NO <sub>x</sub> , RSPM and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and the frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.	<p><b>Complied.</b></p> <p>Continuous AAQM stations (with online analysers) are provided at 4 locations. The data is continuously uploaded to CPCB &amp; APPCB servers on real time basis.</p> <p>In addition, manual ambient air quality monitoring is carried out by engaging third party laboratory (approved by state PCB). The locations and monitoring are in consultation with PCB.</p> <p>MoEF&amp;CC approved third party Ambient Air Quality Monitoring Reports are attached as <b>Annexure-X.</b></p> <div style="display: flex; justify-content: space-around;">   </div>

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<b>S No.</b>	<b>Condition</b>	<b>Compliance</b>
xxii	A good action plan for R&R (if applicable) with package for the project affected persons be submitted and implemented as per prevalent R&R policy within three months from the date of issue of this letter.	<b>Not Applicable</b>
xxiii	An amount of Rs.32.0 crores shall be earmarked as one-time capital cost for CSR programme. Subsequently a recurring expenditure of Rs.6.4 Crores per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within one month along with road map for implementation.	<b>Complying.</b> The details of CSR activities undertaken and planned along with Expenditure during April to September 23 is attached as <b>Annexure- XI.</b>


<b>S No.</b>	<b>Condition</b>	<b>Compliance</b>
xxiv	As part of CSR programme, the company shall conduct need based assessment for the nearby villages to study economic measures with action plan which can help in upliftment of poor section of society. Income generating projects consistent with the traditional skills of the people besides development of fodder farm, fruit bearing orchards, vocational training etc., can form a part of such programme. Company shall provide separate budget for community development activities and income generating programmes. This will be in addition to vocational training for individuals imparted to take up self-employment and jobs.	<b>Complying.</b> Company CSR Policy was prepared and executed based on Socio Economic study which was initially conducted.
xxv	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project	Complied during construction phase.



<b>S No.</b>	<b>Condition</b>	<b>Compliance</b>
xxvi	The Project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at the Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> .	<b>Complied.</b> Advertisements have been given in Telugu newspaper on dated: 04 <sup>th</sup> July- 2009 and in English newspaper on dated: 03 <sup>rd</sup> July 2009.
xxvii	A copy of the clearance letter shall be sent by the proponent to concern Panchayat, Zilla Parishad /Municipal corporation, urban local body and the local NGO, if any from whom suggestions/representations, if any, received while processing the proposal. The Clearance letter shall also be put on the website of the Company by the Proponent.	<b>Complied.</b> Clearance letter was sent to concerned Panchayat, Zilla Parishad/ Municipal Corporation, urban local body. Clearance letters are also uploaded in SEIL website.
xxviii	A dedicated Environment Management Cell with suitable qualified personnel shall be set up under the control of a Senior executive who will report directly to the head of the organization.	<b>Complied.</b> SEIL has established a dedicated Environment Management Cell with qualified personnel under the supervision of Head-HSE, who reports directly to the Station Head.

S No.	Condition	Compliance
xxix	<p>The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely: SPM, RSPM, SO<sub>x</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.</p>	<p><b>Complied.</b></p> <p>Regular compliance reports are submitted to ministry. SEIL has uploaded the status reports including the monitored data in the SEIL website.  <a href="https://seilenergy.com/AboutUs/Disclosure">https://seilenergy.com/AboutUs/Disclosure</a></p> <p>The environmental monitored data including Ambient Air Quality for criteria pollutants and stack emission are displayed at the main gate.</p>  <p><u>Main Gate display of AAQ data</u></p>
xxx	<p>The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data to the respective Regional Office of MOEF, the respective Zonal office of CPCB and SPCB.</p>	<p><b>Complying.</b></p> <p>Six Monthly EC compliance report is being submitted to MOEF&amp;CC, the respective Zonal office of CPCB and SPCB.</p> <p>EC compliance report for the period of Oct. 22 to Mar. 23 was submitted on 30<sup>th</sup> May 23.</p>

<b>S No.</b>	<b>Condition</b>	<b>Compliance</b>
xxxi	The Environment Statement for each financial year ending 31 <sup>st</sup> March in Form V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of the Ministry.	<b>Complying.</b> Environment Statement (Form-V) for FY 22-23 has been submitted to APPCB (Ref. No.: SEIL P1/APPCB/BZA/2023/005 dated 28 <sup>th</sup> September 2023.
xxxii	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests.	<b>Complying.</b> SEIL is submitting the six-monthly reports on status of compliance and the monitored data to the concerned regulatory authorities. The reports are being uploaded company website periodically. <a href="https://seilenergy.com/AboutUs/Disclosure">https://seilenergy.com/AboutUs/Disclosure</a> The same are also sent to regional office of Ministry and APPCB by E-mail.


S No.	Condition	Compliance
xxxiii	Regional Office of the Ministry of Environment and Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will upload the compliance status in their website and update the same from time to time at least six-monthly basis. Criteria pollutants levels including NO <sub>x</sub> (from Stack and ambient air) shall be displayed at the main gate of the power plant.	<p><b>Noted. Being complied.</b></p> <p>The compliance reports are uploaded in company website.  <a href="https://seilenergy.com/AboutUs/Disclosure">https://seilenergy.com/AboutUs/Disclosure</a></p> <p>The environmental monitoring data which includes Ambient Air Quality and stack emission data along with Hazardous waste data is being displayed at the main gate.</p> 
xxxiv	Separate funds shall be allocated for implementation of environmental protection measures along with item wise break up. These costs shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year wise expenditure should be reported to the Ministry.	<p><b>Complying.</b></p> <p>Separate fund is allocated for Environmental protection measure and the funds are not diverted for any other works. Expenditure report is attached as <b>Annexure-XII.</b></p>

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xxxv	The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the Project by the concerned authorities and the dates of start of land development work and commission of Plant.	<b>Complied</b>
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S No.	Condition	Compliance
xxxvi	Full cooperation shall be extended to the Scientists/Officers from the Ministry /Regional Office of the Ministry at Bangalore/CPCB/SPCB who should be monitoring the compliance of environmental status.	<b>Noted for compliance.</b>
xxxvii	Harnessing Solar Power within the premises of the plant particularly at available roof tops shall be carried out and status of implementation including actual generation of solar power shall be submitted along with half yearly monitoring reports.	<b>Complying.</b> Solar panels have been installed at canteen roof.
xxxviii	Long term study of radioactivity and heavy metals contents on coal to be used shall be carried out through a reputed institute and results thereof analysed every two year and reported along with monitoring reports. Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.	<b>Complying.</b> Quarterly monitoring reports for heavy metal analysis in Coal is attached as <b>Annexure-XIII.</b>

<b>S No.</b>	<b>Condition</b>	<b>Compliance</b>
xxxix	Fugitive emissions shall be controlled to prevent impact on agricultural or non-agricultural land.	<p><b>Complying.</b></p> <p>Stockpile Dust Suppression system around coal yards, Dry Fog dust suppression System along conveyor belts, Cyclone separators &amp; bag filters at crusher house, Vacuum truck for road dust cleaning are implemented to avoid fugitive dust emissions and prevent the impact on agricultural or non-agricultural land.</p> 
xl	Space for FGD shall be provided for future installation as may be required.	<p><b>Complying.</b></p> <p>Adequate space provision is available.</p>
xli	No ground water shall be extracted for use in operation of the power plant even in lean season. No water bodies including natural drainage system in the area shall be distributed due to activities associated with the setting up / operation of the power plant.	<p><b>Complying.</b></p>

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<b>S No.</b>	<b>Condition</b>	<b>Compliance</b>
xlii	Fly ash is not to be used for agricultural purpose. No mine void filling will be undertaken as an option for ash utilization without adequate lining of mine with suitable media such that no leachate shall take place at any point of time. In case, the option of mine void filling is to be adopted, prior detailed study of soil characteristics of the mine area shall be undertaken from an institute of repute and adequate clay lining shall be ascertained by the State Pollution Control Board and implementation done in close coordination with the State Pollution Control Board.	<b>Complying.</b>
xliii	Green belt shall also be developed around the ash pond over and above the green belt around the plant boundary.	<b>Complying.</b>
xliv	A Common Green Endowment Fund shall be created, and the interest earned out of it shall be used for the development and management of green cover of the area.	<b>Complied.</b> Separate fund centre has been earmarked for green belt development and maintenance.



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**EC No. J 13012/02/2009-IA. II (T), Date: 04.11.2009 & 02.03.2015**

S No.	Condition	Compliance
xlvi	For proper and periodic monitoring of CSR activities, a CSR committee or a social audit committee or a suitable credible external agency shall be appointed. CSR activities shall also be evaluated by an independent external agency. This evaluation shall be both concurrent and final.	<p><b>Complied.</b></p> <p>CSR Committee has been formed and is working.</p> <p>CSR committee stake holder's meetings conducted at regular intervals.</p>    

<b>S No.</b>	<b>Condition</b>	<b>Compliance</b>
xlvi	An Environment Cell comprising of at least one expert in environment science / engineering, ecology, occupational health and social science, shall be created preferably at the project site itself and shall be headed by an officer of appropriate superiority and qualification. It shall be ensured that the Head of the Cell shall directly report to the Head of the Plant who would be accountable for implementation of environmental regulations and social impact improvement / mitigation measures.	<b>Complying.</b> SEIL has established an Environment Management Cell with suitable qualified personnel under the supervision of Head-HSE, who reports directly to the Station Head.  Services of Marine biologist & ecologist will be hired based on the requirement.
xlvi	The project proponent shall formulate a well laid Corporate Environment Policy and identify and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with the conditions stipulated in this clearance letter and other applicable environmental laws and regulations.	<b>Complied.</b> Environmental Policy has been incorporated as the QHSE Policy. QHSE Policy is attached as <b>Annexure-XIV</b> .
5	The Ministry of Environment and Forests reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry. The Ministry may also impose additional environmental conditions or modify the existing ones, if necessary.	<b>Noted.</b>
6	The environmental clearance accorded shall be valid for a period of 5 years to start operations by the Power Plant.	<b>Noted.</b> The validity of EC is extended to 7 years by MoEF&CC.  The 2x660 MW project has already commenced operations since 2015.

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

**EC No. J 13012/02/2009-IA. II (T), Date: 04.11.2009 & 02.03.2015**

<b>S No.</b>	<b>Condition</b>	<b>Compliance</b>
7	Concealing factual data or submission of false /fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act 1986.	<b>Noted.</b>
8	In case of any deviation or alteration in the project proposed including coal transportation system from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the condition(s) imposed to add additional environmental protection measures required, if any	<b>Noted.</b>
9	The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the Public Liability Insurance Act, 1991 and its amendments.	<b>Noted.</b>
10	Any appeal against this environmental clearance shall lie with the National Environmental Appellate Authority, if preferred, within 30 days as prescribed under Section 11 of National Environmental Appellate Act, 1997.	<b>Noted.</b>

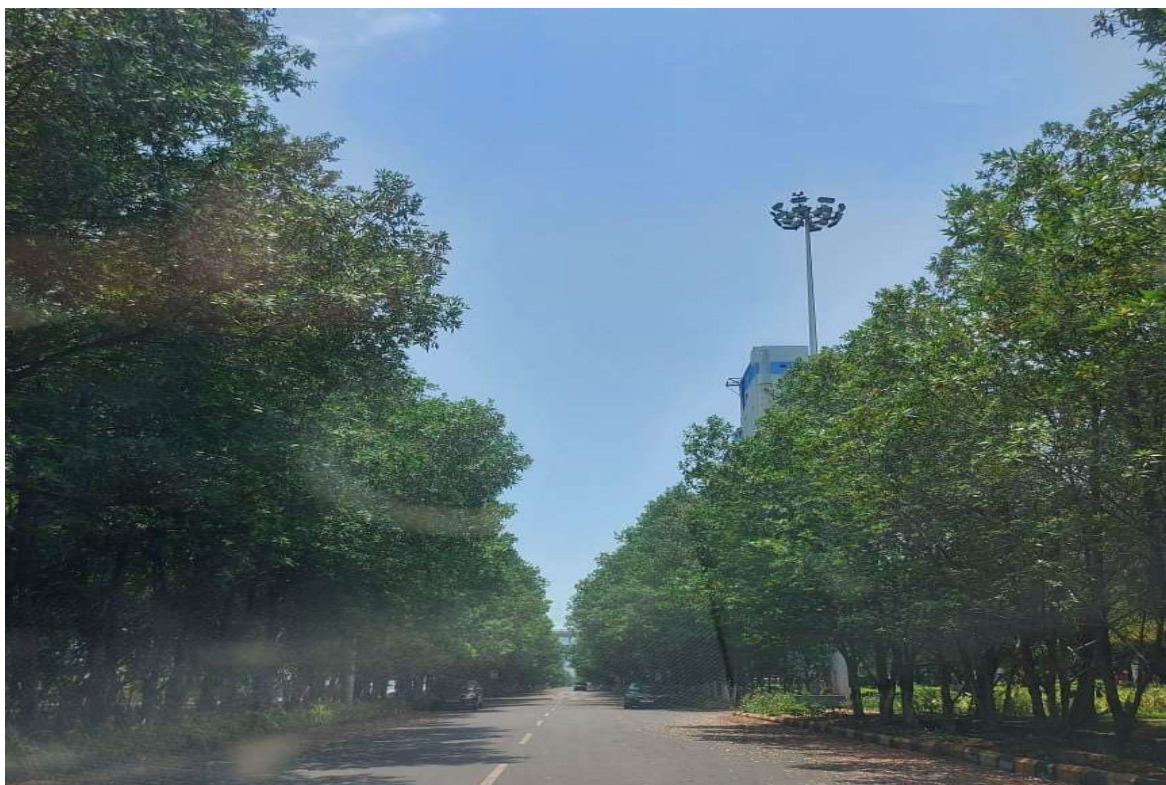


**M/s. SEIL Energy India Limited Project-1**  
(Formerly Sembcorp Energy India Limited),  
Painampuram & Nelaturu (V), Muthukur (M),  
SPSR Nellore (Dist.), Andhra Pradesh.

**EC No. J 13012/02/2009-IA. II (T), Date: 04.11.2009 & 02.03.2015**

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





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

**EC No. J 13012/02/2009-IA. II (T), Date: 04.11.2009 & 02.03.2015**

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**GREEN COVER AROUND PERIPHERY**



**GREEN COVER ALONG THE PLANT ROADS**



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

**EC No. J 13012/02/2009-IA. II (T), Date: 04.11.2009 & 02.03.2015**

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



**GREEN COVER INSIDE THE PLANT**





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

**EC No. J 13012/02/2009-IA. II (T), Date: 04.11.2009 & 02.03.2015**

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**GREEN COVER ALONG MAIN PLANT ROAD**





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

**EC No. J 13012/02/2009-IA. II (T), Date: 04.11.2009 & 02.03.2015**

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**COAL YARD WATER SPRINKLING**



**SPRINKLERS IN ASH POND**



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

**EC No. J 13012/02/2009-IA. II (T), Date: 04.11.2009 & 02.03.2015**

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**CONTINUOUS AMBIENT AIR QUALITY MONITORING STATION INSIDE THE PLANT**





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

**EC No. J 13012/02/2009-IA. II (T), Date: 04.11.2009 & 02.03.2015**

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### **WIND BREAK PLANTATION AROUND COAL YARD**



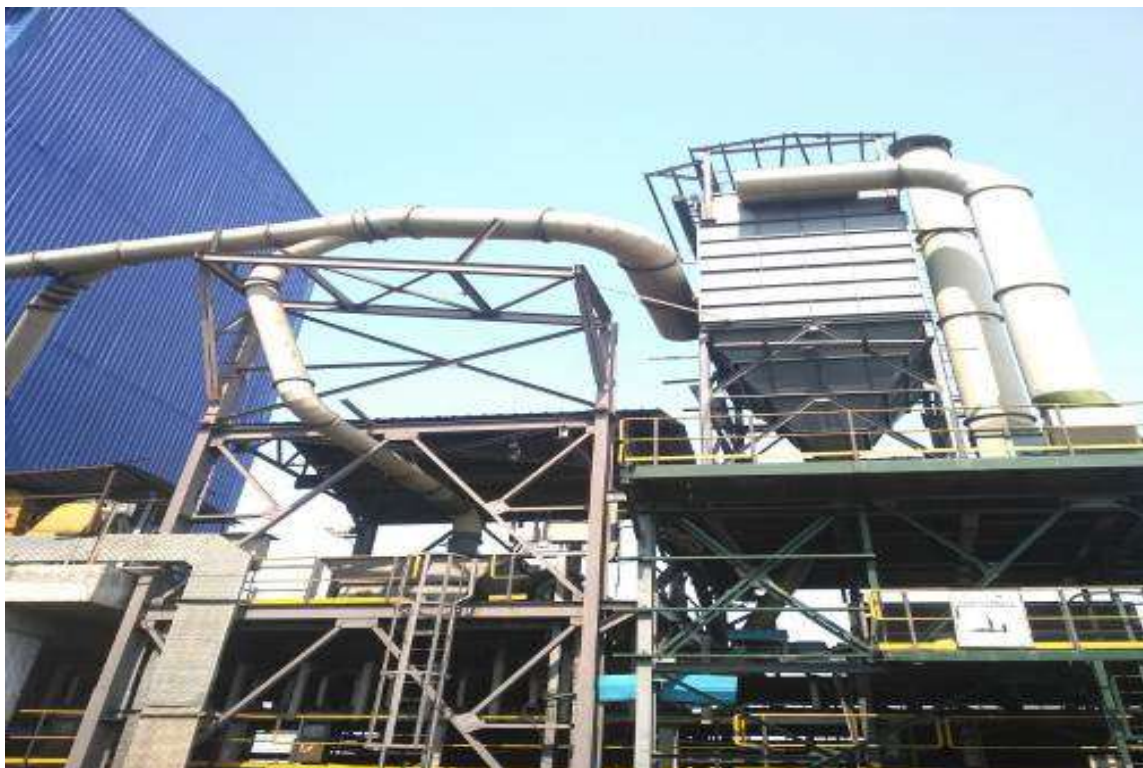
### **CONTINUOUS MONITORING OF DUST SUPPRESSION SYSTEM AT COAL YARD USING PTZ CAMERAS**



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

EC No. J 13012/02/2009-IA. II (T), Date: 04.11.2009 & 02.03.2015

### DUST EXTRACTION SYSTEM AT TRANSFER POINTS



### MAIN GATE DISPLAY BOARD - AMBIENT AIR QUALITY & EMISSIONS DATA DISPLAY







# SPECTRA ENVIROTECH PVT LTD

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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.

**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







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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: 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 ( $^{\circ}$  C) : 33.1
4. Flue gas Temperature ( $^{\circ}$  C) : 143
5. Velocity of the flue gas (m/sec) : 25.12
6. C/s area of the duct ( $m^3$ ) : 33.20
7. Stack Diameter (m) : 6.5
8. Flue gas Flow Rate ( $Nm^3/Hr$ ) : 3002342

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1.	Particulate Matter (PM)	IS 11255 (part-1)1985	mg/ $Nm^3$	<50	32.2
2.	Sulphur Dioxide ( $SO_2$ )	IS 11255 (part-2)1985	mg/ $Nm^3$	-	738
3.	Oxides of Nitrogen ( $NO_x$ )	IS 11255 (part-7)1985	mg/ $Nm^3$	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/ $Nm^3$	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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## TEST REPORT

## ANNEXURE-II

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- May 2023**

**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/05-23/0001**

## TEST RESULT

S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1	Arsenic as As	USEPA-3050B Dec-1996 (Rev.2)	Ppm	0.32	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	0.45	5.0
4	Lead as Pb	USEPA-3050B Dec-1996 (Rev.2)	Ppm	0.32	5.0

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

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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: Heavy Metal Analysis of Bottom Ash- May 2023**

**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	STANDARDS
1.	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	Ppm	0.32	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	0.57	5.0
4.	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	ppm	0.44	5.0

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

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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

## 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: 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: 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**

**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	6.8	7.3	6.5- 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.2	1.2	1.0	5.0
3	Turbidity	NTU	IS3025(P-10)1984	0.3	0.5	1.0	5.0
4	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,044	1,245	--	--
5	Temperature	°C	--	25.2	26.2	--	--
6	Total Suspended Solids	mg/l	IS3025(P-17)1984	25	27	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	723	872	500	2000
8	Total Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	230	253	200	600
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	163	181	200	600
10	Calcium as Ca	mg/l	IS3025(P-40)1991	46.4	52.2	75	200
11	Magnesium as Mg	mg/l	IS3025(P-40)1991	25.3	26.4	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	142	153	--	--
15	Magnesium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	95	101	--	--
16	Sodium as Na	mg/l	IS3025(P-45)1993	106	108	--	--
17	Potassium as K	mg/l	IS3025(P-45)1993	12	11	--	--
18	Chloride as Cl	mg/l	IS3025(P-32)1988	163	184	250	1000

K.S.L.g  
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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	72.1	84.1	200	400
20	Nitrates as NO <sub>3</sub>	mg/l	IS3025(P-34)1988	28.2	28.3	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	0.07	0.12	<0.3	No Relaxation
24	Fluoride as F	mg/l	IS3025(P-60)2008	0.65	0.75	<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	4.6	5.9	--	--
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	30.8	--	--
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	--	--

K.S.L.g  
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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 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: 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**

**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	7.5	7.3	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	0.4	0.3	1.0	5.0
4	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,204	1,251	--	--
5	Temperature	°C	--	26.2	25.3	--	--
6	Total Suspended Solids	mg/l	IS3025(P-17)1984	24	34	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	842	882	500	2000
8	Total Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	255	235	200	600
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	182	207	200	600
10	Calcium as Ca	mg/l	IS3025(P-40)1991	61	64	75	200
11	Magnesium as Mg	mg/l	IS3025(P-40)1991	22	23	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	0.2	0.5	1.0
14	Calcium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	153	144	--	--
15	Magnesium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	105	92	--	--
16	Sodium as Na	mg/l	IS3025(P-45)1993	124	113	--	--
17	Potassium as K	mg/l	IS3025(P-45)1993	22	13	--	--
18	Chloride as Cl	mg/l	IS3025(P-32)1988	184	205	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	91.4	93.1	200	400
20	Nitrates as NO <sub>3</sub>	mg/l	IS3025(P-34)1988	25.1	24.3	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	0.18	0.12	<0.3	No Relaxation
24	Fluoride as F	mg/l	IS3025(P-60)2008	0.70	0.66	<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	5.4	5.7	--	--
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	31.2	30.9	--	--
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-5: Piezo Well No-5- Water – North West Side (PW-5)**

**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/05-23/0003**

**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	7.3	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	1,251	--	--
5	Temperature	°C	--	25.3	--	--
6	Total Suspended Solids	mg/l	IS3025(P-17)1984	34	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	882	500	2000
8	Total Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	235	200	600
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	207	200	600
10	Calcium as Ca	mg/l	IS3025(P-40)1991	64	75	200
11	Magnesium as Mg	mg/l	IS3025(P-40)1991	23	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	0.2	0.5	1.0
14	Calcium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	144	--	--
15	Magnesium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	92	--	--
16	Sodium as Na	mg/l	IS3025(P-45)1993	113	--	--
17	Potassium as K	mg/l	IS3025(P-45)1993	13	--	--
18	Chloride as Cl	mg/l	IS3025(P-32)1988	178	250	1000

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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	73.2	200	400
20	Nitrates as NO <sub>3</sub>	mg/l	IS3025(P-34)1988	26.4	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	0.18	<0.3	No Relaxation
24	Fluoride as F	mg/l	IS3025(P-60)2008	0.78	<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	5.0	--	--
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	30.2	--	--
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

## ANNEXURE-IV

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: 24.05.2023

Sample Collected By: Ganesh

Sample Registration Date & NO: 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/05-23/0001

## TEST RESULT

S.NO	TEST PARAMETERS	UNIT	TEST METHOD	RESULT	STANDARD
1.	pH	---	IS:3025(Part-11)1983	7.6	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	30	100
5.	Chemical Oxygen Demand (COD)	mg/l	IS:3025(Part-58)-2006	64	250
6.	Biochemical Oxygen Demand (BOD) (3 days at 27 °C)	mg/l	IS:3025(Part-44)-1993	23	100
7.	Oil & Grease	mg/l	IS:3025(Part-39)-1991	1.5	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

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## 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.

**Discipline: Chemical**

**Group: Water**

**Product: ETP INLET**

**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/05-23/0001**

## 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

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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: 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	100
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

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## 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.

**Discipline: Chemical**

**Group: Water**

**Product: Marine Outfall Water**

**Date of Sampling: 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/05-23/0001**

## TEST RESULT

S. NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1	pH	IS:3025(Part-11)1983	--	6.8	6.5-8.5
2	Temperature Intake	--	°C	25.2	Shall not exceed 5°C above the Receiving temperature
3	Temperature Out Fall	--	°C	27.5	
4	Electric Conductivity	IS: 3025:1964	µs/cm	28,357	--
5	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	19,765	--
6	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	68	100
7	Chemical Oxygen Demand	IS:3025(Part-58)-2006	mg/l	52	250
8	Biochemical Oxygen Demand (3 days at 27°C)	IS:3025(Part-44)-1993	mg/l	18	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	4,361	--
11	Total Alkalinity as CaCO <sub>3</sub>	IS:3025(Part-23)-2012	mg/l	757	--
12	P- Alkalinity as CaCO <sub>3</sub>	IS:3025(Part-13)-1964	mg/l	Nil	--
13	Turbidity	IS:3025(Part-10)-2012	NTU	2.8	--
14	Calcium as Ca	IS:3025(Part-40)-2012	mg/l	1,316	--
15	Magnesium as Mg	IS:3025(Part-46)-2012	mg/l	272	--
16	Sodium as Na	IS:3025(Part-45)1993	mg/l	678	--

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S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
17	Potassium as K	IS:3025(Part-45)-1993	mg/l	361	--
18	Chloride as Cl	IS:3025(Part-32)-2012	mg/l	7,134	--
19	Sulphates as SO <sub>4</sub>	IS:3025(Part-24)-2012	mg/l	780	--
20	Nitrates as NO <sub>3</sub>	IS:3025(Part-34)-2012	mg/l	40.1	--
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	512	--
23	Iron as Fe	IS:3025(Part-53)-2012	mg/l	1.1	--
24	Flouride as F	IS:3025(Part-60)-2012	mg/l	1.5	--
25	Copper as Cu	IS:3025(Part-42)-2012	mg/l	0.23	--
26	Manganese as Mn	IS:3025(Part-59)-2012	mg/l	0.25	--
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	0.28	--
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	27.3	--

Note: IS- Indian Standard

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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: Marine Outfall Water**

**Date of Sampling: 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

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: 25.05.2023

END DATE: 29.05.2023

### COMMENTS:

The test species was undergone toxicity for about 96 Hrs.  
RESULT: 97% survival of fish was noticed

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

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







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## TEST REPORT

## ANNEXURE-VII

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 INLET**

**Date of Monitoring: 24.05.2023**

**Sample Collected By: Ganesh**

**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

S. NO.	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS
1	pH	IS:3025(Part-11)1983	--	7.9
2	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	743
3	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	75
4	Chemical Oxygen Demand	IS:3025(Part-58)-1986	mg/l	234
5	Biochemical Oxygen Demand (5 days at 20°C)	IS:3025(Part-44)-1993	mg/l	43
6	Oil & Grease	IS:3025(Part-39)-1991	mg/l	1.8

**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

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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: STP OUTLET**

**Date of Monitoring: 24.05.2023**

**Sample Collected By: Ganesh**

**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

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARD
1.	pH	IS:3025(Part-11)1983	--	7.3	5.5-9.0
2.	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	172	2100
3.	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	30	100
4.	Chemical Oxygen Demand	IS:3025(Part-58)-1986	mg/l	67	250
5.	Biochemical Oxygen Demand (5 days at 20°C)	IS:3025(Part-44)-1993	mg/l	16	100
6.	Oil & Grease	IS:3025(Part-39)-1991	mg/l	<1.0	10

**Note: IS-Indian Standard**

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Managing Director

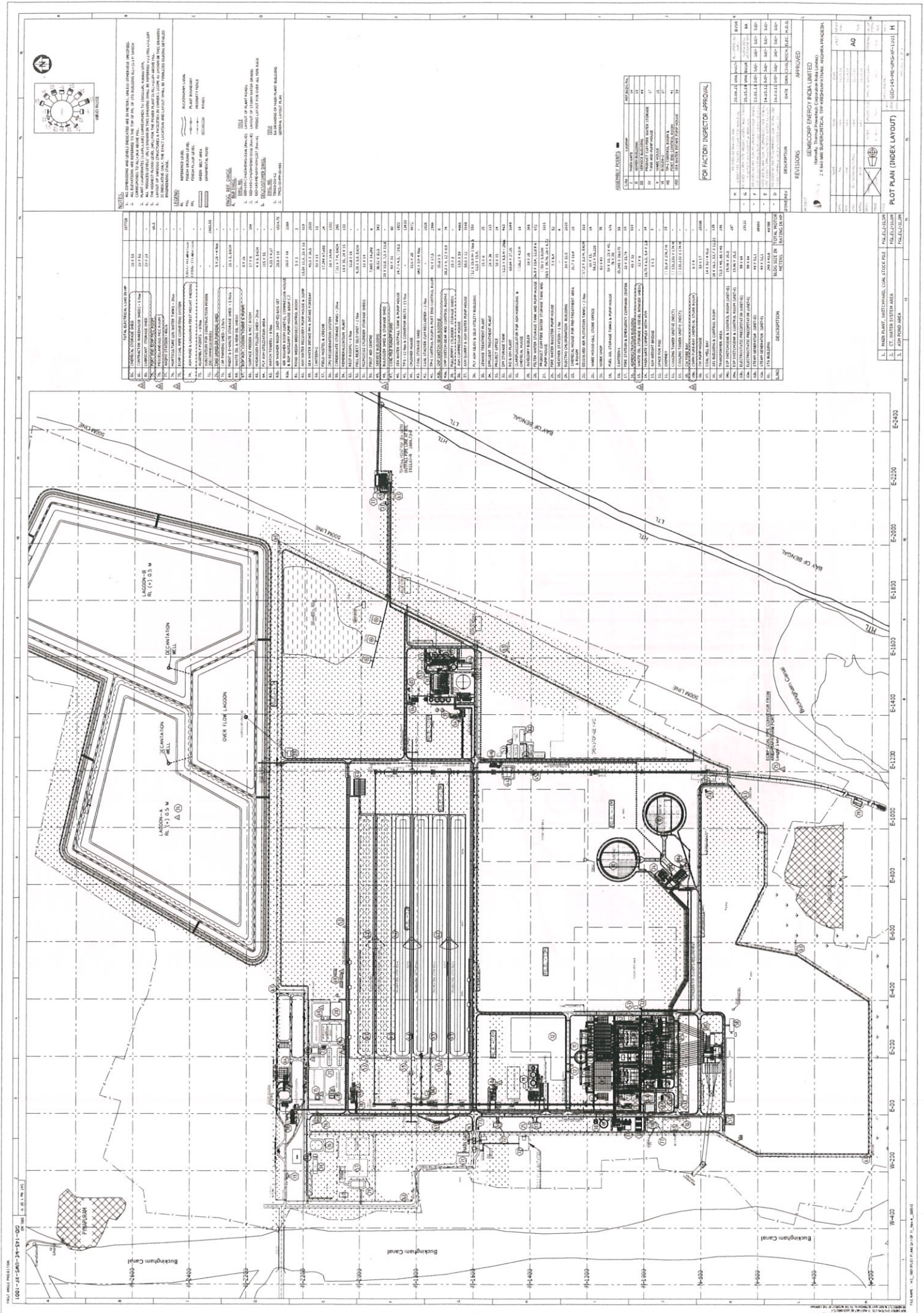
**LABORATORY :** Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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## TEST REPORT

## ANNEXURE-IX

### 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

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

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







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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. 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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## 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.

**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  
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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-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

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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.

**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

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

**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  
Verified by



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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







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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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Managing Director

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

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## TEST REPORT

ANNEXURE-X

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: Atmospheric Pollution Product: Ambient Air Location-1: Fire Station (Plant)	Sample Registration No :305/05/2023 Sample Registration Date:31.05.2023 Issue Date:05.06.2023 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



DBA  
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

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	21.2	19.7	7.3	6.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	37.9	27.9	8.5	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	31.6	23.2	7.8	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	37.7	27.7	8.4	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 / 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



DSA  
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: <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: Atmospheric Pollution Product: Ambient Air Location-3: Painampuram Village	Sample Registration No: 305/05/2023 Sample Registration Date: 31.05.2023 Issue Date: 05.06.2023 Lab Ref: SEPL/ES/SEILEILP/05-23/0003 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
01.05.2023	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	26.4	17.2	6.8	6.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	38.2	28.8	8.3	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	32.8	22.8	7.4	6.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	38.1	28.4	8.2	7.6	<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



DBA  
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.

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	24.6	22.5	7.4	6.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	38.2	27.6	8.5	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	31.1	22.4	7.5	6.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	37.7	27.2	8.5	7.5	<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 : 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- MAY 2023

Pollutants	Description	Unit	Fire Station (Plant)-1	Pattapupalem Village-2	Painampuram Village-3	Nelaturu Village-4
PM <sub>10</sub>	Minimum	$\mu\text{g}/\text{m}^3$	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  
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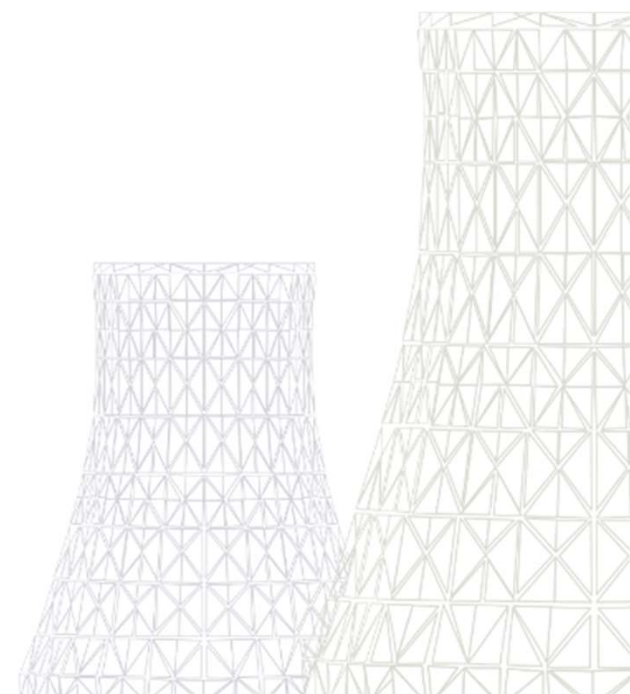






# CSR UPDATES

**SEIL Energy India Limited**  
**APR TO SEPT 2023**



## CSR Expenditure FY 2023 -24

Amount in INR Mn

S NO	Thematic Area	Half Yearly Expenditure (23-24)
1	Health	9.32
2	Education	10.56
3	Skill Development	1.50
4	Decarbonization	0.82
5	Rural Development	0.00
6	Admin Cost	-
Grand Total		22.19



## HEALTH

S No.	CSR Activity	Cumulative no. of beneficiaries
1	<b>Mobile Medical Unit (MMU)</b> - Consultation provided to 4544 villagers (Female-2427, Male-1605, Female Child-273, Male Child- 239 ).	4544 Patients
2	<b>Eye Screening Camps</b> - conducted Screening to 3025 Community members	3025 Community members
3	<b>Community Audiometry Screening</b> -.4644 screenings with provision of 260 hearing aids to the needed.	4644Screening and260Hearing aids to the needy
4	<b>RO Water Plant</b> -Isakadoruvu RO Plant shifted to New IVP site and started functioning . All Nine RO Plants in Community locations are being operated by providing safe drinking water to communities	94 Families
5	<b>Apollo Telemedicine Center</b> -Total beneficiaries : 3527, General consultations- 3527; Specialty Consultations - 165; Social Health Education Programmes -1107; Pharmacy -3659; Lab Investigations - 720 ; Non- Communicable Disease Screenings - 672 Beneficiaries.	3527Beneficiaries
6	<b>Medical equipment to PHC and ESI Hospital</b> - ECG, Medical Refrigerator Foetal Monitor, Fetal Monitor handed over to three PHCs( Muthukuru, Varigonda, Seetharam puram ) and one ESI	3200 Patients

## HEALTH - PHOTOS



EYE CHECKUP CAMPS



AUDIOMETRY CAMPS



MEDICAL EQUIPMENT TO HOSPITALS





HEALTH - PHOTOS



Telemedicine Center



Mobile Medical Van



Social Health Education and NCD Screening by ATNF



EDUCATION

S No.	CSR Activity	Cumulative no. of beneficiaries
1	Conveyance facility for around 240 no. of School Students to Government schools to prevent school Dropouts	240numbers students
2	Education Intervention in 10 Government Schools <ul style="list-style-type: none"> <li>Library Book kits each containing 87 books, 1 Bookshelf provided</li> <li>78 Teaching Learning (TLM) materials</li> <li>Painting of subject matter in school &amp; classrooms walls</li> <li>1200 School children benefited through this initiative</li> </ul>	1200School children



EDUCATION PROJECT - PHOTOS



VEHICLE SUPPORT



EDUCATION INTERVENTION IN GOVERNMENT SCHOOLS



## SKILL DEVELOPMENT

S No.	CSR Activity	Cumulative no. of beneficiaries
1	<b>IT Trainings:</b> <ul style="list-style-type: none"> <li>190 no's, training completed</li> <li>Data Entry Operator – 152 no's</li> <li>Web Designing – 38 no's</li> </ul> Training for 210 numbers for youth in IT Related courses is in progress <b>Training Programs at SEDC</b> <ul style="list-style-type: none"> <li>Advanced Tailoring : 78 women</li> <li>Self Employed Tailor( Jute Bag Stitching): 90 Women</li> </ul>	400numbers students and 168 Community women
2	Electrical and Fire Safety trainings organized for 37 no's Aqua farmers from surrounding villages	37 numbers farmers from community
3	Fire Safety training and 5S Awareness Programme conducted for the benefit of Apollo Tele Medicine Center staff	- NA-



SKILL DEVELOPMENT CENTER AND IT TRAININGS PHOTOS



SELF EMPLOYED TAILOR,ADVANCED TAILORING AND IT TRAININGS COURSES



SAFETY TRAINGS TO COMMUNITIES





S No.	CSR Activity	Cumulative no. of beneficiaries
1	<ul style="list-style-type: none"> <li>Development of 2nd phase of 40 acres and Maintenance of 1st phase of 40 acres are in progress</li> <li>SEIL has undertaken plantation in 25 acres of barren land at Simhapuri University in Phase-2 Harith remaining 15 acres will be taken up at PG Center, Kavali</li> <li>Employee Volunteering Plantation drive was initiated at Vikram Simhapuri University. Around 50 employees of SEIL, 30 Numbers Students of NCC, University staff participated in the Programme</li> </ul>	5500 Students and Teaching members in Phase-1& Phase-2 Projects
2	70 numbers of 30 W Solar Street lights installed in the Nelaturupalem village	792 Families
3	Vikram Simhapuri University, Nellore (100Kw), Indian Recross Society, Nellore (150Kw) Total 250 Kw of on grid Solar power installed on the institutions expected to save power bills of Rs. 25 lakhs every year	Around 450 students and 350 Numbers patients per day
4	Solar water heating systems installed at Indian Red cross Cancer Hospital(IRCS) -(4 no's) and VSU -(11 no's). Each Solar water heater has capacity of generating 500 lts of hot water. Total 15 number installed	Around 450 students and 350 Numbers patients per day
5	Six veterinary camps organized -2688 livestock were treated in these camps, benefiting 262 farmers.	2688 Livestock and 262 Farmers



**ON GRID SOLAR**

VIKRAM SIMHAPURI UNIVERSITY (VSU)



INDIAN REDCROSS SOCIETY







**SOLAR PROJECTS**



**PROJECT HARITH**





VETERINARY CAMPS





# THANK YOU



SEIL Project-1 Environment Expenditure			
S.No	Area	Particulars	Expenses in Rs.
1	<b>CHP</b>	Operations (CHP)	2,21,89,600
2		Mechanical Maintnenace	1,85,25,400
3		Electrical Maintnenace	10,30,500
4		Coal Yard Sprinklers	20,20,000
5		DFDS System	2,50,000
6	<b>AHP</b>	Operations	28,20,500
7		Mechanical Maintnenace	11,60,000
8		Electrical Maintnenace	28,80,600
9		C&I Maintenance	31,00,000
10	<b>Others</b>	Green Belt	90,82,000



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

## TEST REPORT

## ANNEXURE-XIII

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- May 2023**

**Sample Location: Coal Feeder#1**

**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/05-23/0001**

## TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	ppm	0.22	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	1.28	5.0
4	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	ppm	0.36	5.0

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

K.S.Lag  
Verified by



DA  
Authorized by  
Managing Director

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

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# SEIL ENERGY INDIA LIMITED

## QUALITY, OCCUPATIONAL HEALTH, SAFETY AND ENVIRONMENT POLICY

### QUALITY POLICY

SEIL Energy India Limited (SEIL) is committed to achieve and sustain world-class standard of quality in power generation and uninterrupted supply of power to customers by adopting, innovating, and continually improving the best industrial practices in Operation, Maintenance and Procurement at its power stations, while complying with all applicable standards and best practices.

### OCCUPATIONAL HEALTH, SAFETY AND ENVIRONMENT POLICY

SEIL considers HSE as its core value and is committed to:

- provide safe and healthy work environment and empower employees and stakeholders involved in its operations.
- provide a framework for setting HSE objectives to ensure zero harm and excellence in its operations and benchmark with the best of peer plants.
- ensure compliance to legal, regulatory, statutory norms, and standards pertaining to environment, occupational health, and safety.
- periodically assess and review the opportunities & risks and monitor HSE activities by providing adequate resources and mitigation measures.
- raise the HSE awareness and competency levels of employees and other stakeholders to deliver excellent HSE outcomes by providing necessary information, instructions, and supervision.
- the idea that all occupational illness, accidents, and environmental incidents are preventable.
- value Health, Safety, and Environment and at par with quality, operations, and cost.
- optimisation of use of natural resources, protect the environment and minimising emissions, effluents, and waste, thereby promoting sustainability.
- continually improve occupational Health, Wellbeing, Safety, and Environment Management Systems through systematic use of skills & technologies.
- foster a culture of active collaboration to achieve interdependent safety culture and wellbeing of stakeholders.
- Include compliance to safety systems and procedures as a condition of employment and include H&S performance for evaluation of employees and contractors.

This policy shall be widely communicated, reviewed periodically, and amended when necessary.

May 23rd, 2023

Raghav Trivedi  
Chief Executive Officer