



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

**Regd. Office:** 5th Floor, Tower C,  
Building No 8, DLF Cybercity,  
Gurgaon - 122002, Haryana, India  
Tel (91) 124 389 6700/01  
Fax (91) 124 389 6710  
E-mail: cs@seilenergy.com

SEIL P2/MoEF&CC/Chennai/2024/004

28<sup>th</sup> November 2024

To  
The Regional Director,  
Regional Office (South Eastern Region),  
Ministry of Environment, Forests & Climate Change,  
1<sup>st</sup> & 2<sup>nd</sup> Floor, HEPC Building, No 34, Cathedral Garden Road,  
Nungambakkam,  
**Chennai- 600034**

**Sub.: Submission of Half Yearly EC Compliance Report of SEIL Energy India Limited Project-2 (Formerly Sembcorp Energy India Limited) for the period from April 2024 to September 2024**

Ref.: EC Letter No J 13012/76/2009 – IA.II (T) dated 30-09-2010, amended 18.05.2011

Dear Sir,

As per the provision of Environment Clearance, we hereby submit the half yearly EC compliance status report for the period of April 2024 to September 2024 of SEIL Energy India Limited Project-2 (Formerly known as Sembcorp Energy India Limited), Nellore.

Hope the above is in order.

Thanking you,

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

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

Encl: As above

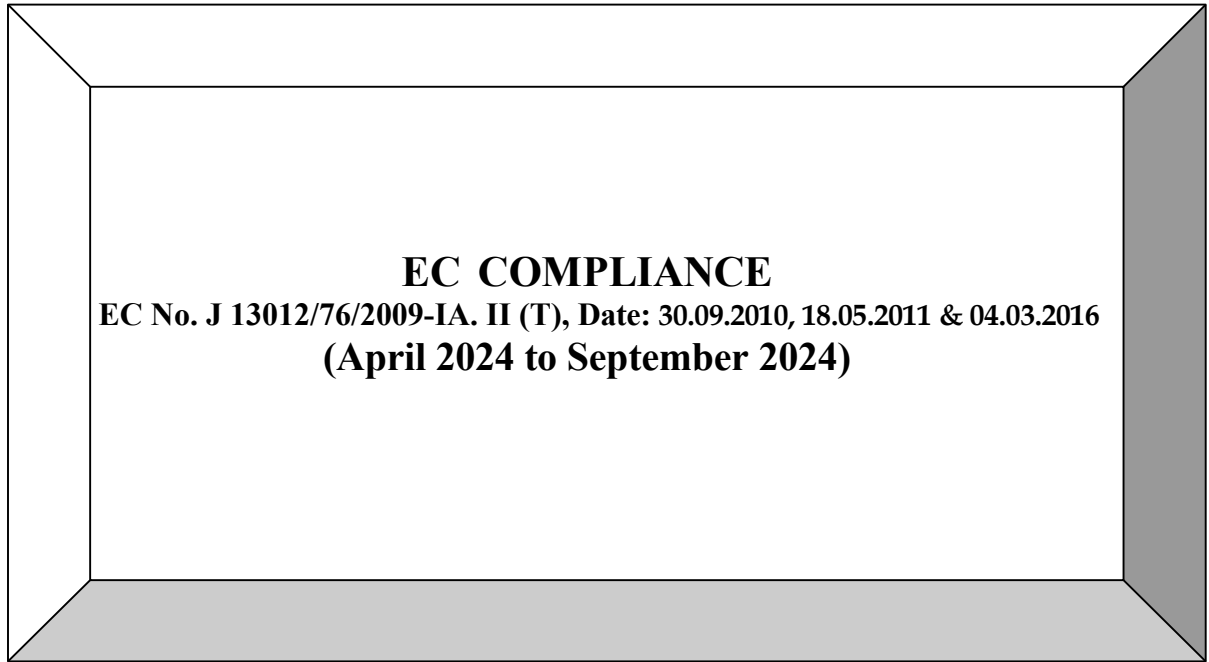
Copy To:

1. The Director, IA.I, MoEF&CC, New Delhi
2. The Additional Director/Scientist 'E', MoEF&CC, Sub-Office, Vijayawada
3. The Regional Officer (APPCB), Nellore

**M/s. SEIL Energy India Limited Project-2**  
(Formerly Known as M/s. Sembcorp Energy India Limited)  
Ananthavaram (V), Thotapalli Gudur (M),  
SPSR Nellore (Dist.), Andhra Pradesh.

**EC No. J 13012/76/2009-IA. II (T), Date: 30.09.2010, 18.05.2011 & 04.03.2016**

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**01. Background:**

SEIL Energy India Limited (SEIL) Project-2 [formerly known as Sembcorp Energy India Limited] is a leading independent thermal power plant situated in Nellore Dist. of Andhra Pradesh.

Currently, the SEIL P-2 consists of 2 x 660 MW is under operation since November 2016.

The location map is shown as **Figure-1**. The 10 km radius topographical map around the project is shown in **Figure-2**. The latitude & longitude of North South extremes of Site are 14.350849 & 80.151410 respectively.



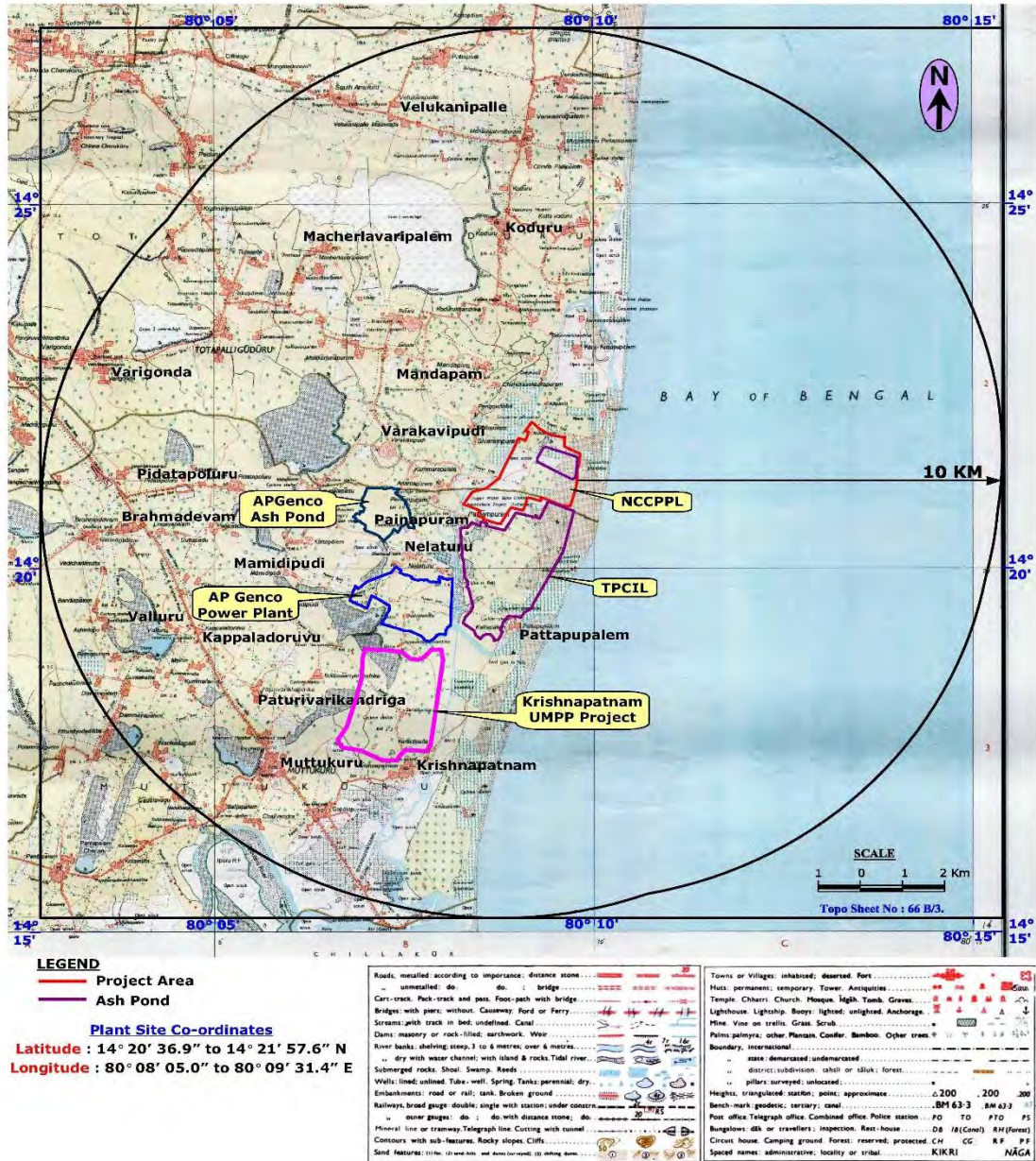
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Fig. - 1 (LOCATION MAP)



Fig. – 2 (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 & Forests, Govt. of India	MoEF Letter J-13012/76//2009-IA.II (T) dated 30/09/2010. The validity of EC is extended to 7 years by MoEF notification to start operations.  Accordingly, SEIL commenced its operations by Sept 2015, well within due date.
2	CRZ Clearance	Ministry of Environment & Forests, GOI	F.No. 11-44/2011-IA.III. Dated: 9 <sup>th</sup> April, 2012 and amendment on 1 <sup>st</sup> May 2014
3	Consent for Operation (CFO) for two units	AP Pollution Control Board, Hyderabad	Order No. APPCB/VJA/NLR/182/HO/CFO/2016 Dated: 14 <sup>th</sup> Dec 2021. <b>Valid till 28<sup>th</sup> February 2027.</b>



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**CONDITION WISE COMPLIANCE TO ACCORDED ENVIRONMENT CLEARANCE**

S No.	Condition	Compliance
<b>A-Specific Conditions</b>		
i	Environmental clearance is subject to obtaining CRZ clearance (as applicable) for permissible activities in CRZ area.	CRZ clearance obtained from MoEF (F No. 11- 44/2011– IA – III dated 9 <sup>th</sup> April 2012 and amendment on 1 <sup>st</sup> May 2014).
ii	In case source of fuel supply is to be changed at later stage for the proposed 2x660 MW units now proposed to be run on imported coal from Indonesia, the project proponent shall intimate the Ministry well in advance along with necessary requisite documents for its concurrence for following the change. In such a case the necessary for re-conducting public hearing may be decided by the Ministry in consultation with the Expert Appraisal Committee.	The said condition has been amended as to be read as “Imported” shall be now substituted as “Domestic Coal” and imported coal in the ratio 70:30 shall be used as fuel via EC Amendment Letter No. J. 13012/76/2009- I.A. II (T) issued by MoEF&CC dated 18.05.2011.
iii	The project proponent shall examine in detail the possibility to adopt NIOT technology of desalination plant using Low Temperature Thermal Desalination (LTTD) process. In case the same is not feasible detailed explanation shall be submitted to the Regional Office of the Ministry.	<b>Complied.</b> SEIL Project-2 (Formerly known as Sembcorp Energy India Limited) has installed RO process for desalination in the place of NIOT LTTD and the same was communicated.



S No.	Condition	Compliance
iv	<p>Local employable youth shall be identified and trained in skills relevant to the project for eventual employment in the project itself. The action taken report and details thereof to this effect shall be submitted to the Regional Office of the Ministry and the State Govt. Dept. concerned from time to time.</p>	<p><b>Complying.</b>            SEIL has supported the local community in various ways like Health, Education, Skill Development, Decarbonization &amp; Rural Development.            CSR Updates from April 2024 to September 2024 attached as <b>Annexure-I.</b></p>
v	<p>The project proponent shall establish at its own costs a Fish Landing Platform, Ice Plant etc. and shall accordingly submit to the Regional Office of the Ministry and the Fishery Department of the State Govt. a detailed plan and implementation schedule. The project proponent shall also prepare an action plan for implementation. Regarding providing sustainable fishing option for fishermen community in the area.</p>	<p>As per the Recommendations of 18<sup>th</sup> Meeting of Reconstituted Expert Appraisal Committee (EAC) dated 27<sup>th</sup> June, 2018, SEIL Project-2 (formerly known as Sembcorp Energy India Limited) have submitted the Socio-economic study and need based assessment study report to MoEF&amp;CC, APPCB on 16<sup>th</sup> April 2019 [Ref. No: SEIL Project-2/MoEF/New Delhi/EC/2019/78].</p>
vi	<p>An endowment of Fishermen Welfare Fund shall be created out of CSR component for specific activities to be finalized <b>within three months</b> for upliftment of the lives of fishing community in the region. Creation of facilities such as Fish Drying Platforms /Ice plant can as mentioned at clause (v) above can form a part of the scheme.</p>	<p>As per the Recommendations of 18<sup>th</sup> Meeting of Reconstituted Expert Appraisal Committee (EAC) dated 27<sup>th</sup> June, 2018, SEIL Project-2 (formerly known as Sembcorp Energy India Limited) have submitted the Socio-economic study and need based assessment study report to MoEF&amp;CC, APPCB on 16<sup>th</sup> April 2019 [Ref. No: SEIL Project-2/MoEF/New Delhi/EC/2019/78].</p>


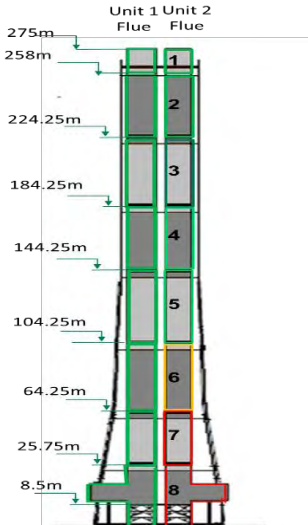


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S No.	Condition	Compliance
vii	The project proponent shall not hamper the vocation of the fishing community in the area and it shall be ensured that local fishing community shall be allowed to carry out their vocation.	As per the Recommendations of 18 <sup>th</sup> Meeting of Reconstituted Expert Appraisal Committee (EAC) dated 27 <sup>th</sup> June, 2018, SEIL Project-2 (formerly known as Sembcorp Energy India Limited) have submitted the Socio-economic study and need based assessment study report to MoEF&CC, APPCB on 16 <sup>th</sup> April 2019 [Ref. No: SEIL Project-2/MoEF/New Delhi/EC/2019/78].
viii	Existing Port facility in the region shall be utilized for import of coal instead of setting up individual jetty to avoid disruptions in coastal and inland ecology.	<b>Complied.</b>
ix	Possibility for setting up transit storage within plant site for temperature control of effluent before discharge to the sea shall be carried out and details submitted within three months of starting construction activities to the Ministry.	<b>Complying.</b> SEIL Project-2 (Formerly known as Sembcorp Energy India Limited) is monitoring the temperature of the Marine Outfall discharge and readings are within the limits specified by MoEF&CC and APPCB. Also pH, Temperature and TSS parameters of Marine Outfall discharge are connected to CPCB and APPCB online real time monitoring websites. Marine Outfall effluent analysis report attached as <b>Annexure-II</b> .
x	Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.	<b>Complied.</b>

S No.	Condition	Compliance
xi	No waste (effluent) shall be discharged into canal systems, backwaters, marshy areas and the sea (as applicable) without treatment.	<p><b>Complying.</b></p> <p>ETP &amp; STP effluent treated water is reused for green belt development and coal yard dust suppression.</p>  <p>ETP &amp; STP Effluent analysis reports attached as <b>Annexure-III &amp; Annexure-IV</b> respectively.</p> <p>Marine Outfall effluent analysis reports attached as <b>Annexure-II</b>.</p>
xii	The marshy areas in the vicinity (if any) shall not be disturbed.	<p><b>Complied.</b></p>
xiii	Intake shall be from deep sea to avoid aggregation of fish and other marine creatures.	<p><b>Complying.</b></p> 
xiv	It shall be ensured that no contamination of soil) ground and surface waters (canals & village pond) with sea water in and around the project sites takes place. Necessary preventive measures for spillage from pipelines, such as lining of guard pond used for the treatment of outfall before discharging into the sea, and surface 'RCC channels along the pipelines of outfall and intake should be adopted.	<p><b>Complying.</b></p>

S No.	Condition	Compliance
xv	Hydro-geological study of the area shall be reviewed annually and results submitted to the Ministry and concerned agency in the State Govt. In case adverse impact on ground water quantity and quality is observed, immediate mitigating steps to contain any adverse impact on ground water shall be undertaken	<p><b>Complying.</b></p> <p>Ground water is not being used at SEIL. Periodic hydrogeology studies are carried out for the site and surroundings. Hydrogeology Study is being reviewed annually and latest report submitted on 29<sup>th</sup> May 2024.</p>
xvi	A stack of 275 m height shall be provided with continuous online monitoring equipment for SO <sub>x</sub> , NO <sub>x</sub> and PM <sub>2.5</sub> and PM <sub>10</sub> . Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack shall also be monitored on periodic basis.	<p><b>Complied.</b></p> <p>Online Continuous Emission Monitoring System (CEMS) is in operation for monitoring PM, SO<sub>x</sub> &amp; NO<sub>x</sub>. Flue gas Exit Velocity, Mercury emissions are being monitored through MoEF&amp;CC approved third party and the reports of Stack Emission Monitoring are attached as <b>Annexure-V</b>. Stack height of 275m has been provided for wider dispersion of gaseous emissions.</p> <div style="display: flex; align-items: center;">   </div> <p>CEMS platform &amp; installation done at 103 m elevation.</p>


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xvii	Sulphur content in the imported coal shall not exceed 0.60%.	<b>Complying.</b>
xviii	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm <sup>3</sup> .	<b>Complying.</b> MoEF&CC approved third party reports of Stack Emissions Monitoring attached as <b>Annexure-V.</b>
xix	Provision for FGD shall be provided for future use as and when required.	<b>Noted.</b> As per the revised MoEF&CC Notification GSR No.243 (E) dated 05 <sup>th</sup> September 2022 (Environment (Protection) Act Second Amendment Rules and Minutes of Task force meeting dated 27.08.2021 for categorization of Power Plants by CPCB, SEIL Project-2 (formerly known as Sembcorp Energy India Limited) need to install FGD by 31 <sup>st</sup> December 2026 so as to comply SO <sub>x</sub> emission limit. EPC tender released currently and under evaluation for installation of FGD.
xx	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.	<b>Complying.</b> Bag filters along with Cyclone Separators, Dust suppression and Dry fog Dust suppression (DFDS) systems installed at coal handling area. 

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xxi	A detailed coal analysis from a reputed lab for all contracted coal sources for the project shall be submitted <b>within three months.</b>	<p><b>Complied.</b></p> <p>SEIL Project-2 (formerly known as Sembcorp Energy India Limited) Unit-1 &amp; Unit-2 commenced operation from Nov 2016 &amp; Feb 2017.</p> <p>Coal Analysis Lab test reports are attached as <b>Annexure-VI.</b></p>
xxii	Utilization of 100% Fly Ash generated shall be made from 4 <sup>th</sup> year of operation of the plant. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.	<p><b>Complying.</b></p> <p>SEIL Project-2 (formerly known as Sembcorp Energy India Limited) is achieving 100% fly ash utilization since November 2019.</p>  <p>Annual Fly Ash utilization for FY2023-24 vide letter No. SEIL P2/MoEF&amp;CC/Chennai/2024/001 dated 23<sup>rd</sup> May 2024 has been submitted to MoEF&amp;CC and CPCB.</p>

S No.	Condition	Compliance
xxiii	<p>Fly ash shall be collected in dry form and storage facility (silos) shall be provided. Unutilized fly ash shall be disposed-off in the ash pond in the form of high concentration 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.</p>	<p><b>Complying.</b></p> <p>Fly ash dry collection system is in place. Ash Water Recirculation system in operation and treated water is utilized for Coal Handling Plant dust suppression.</p> <p>Monitoring of Heavy metals in the Bottom ash and ash pond effluents is being carried out on quarterly basis by approved third party agency. Reports attached as <b>Annexure-VII &amp; Annexure-VIII</b> respectively.</p> <p>Piezometer Bore wells water level monitoring &amp; analysis is carried out on Quarterly basis. Reports attached as <b>Annexure-IX</b>.</p> 
xxiv	<p>Ash pond shall be lined with HDP/LDP lining or any other suitable impermeable media such that no leachate takes place at any point of time. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.</p>	<p><b>Complied.</b></p> 

S No.	Condition	Compliance
xxv	For disposal of Bottom Ash (if proposed to be undertaken) in abandoned mines it shall be ensured that the bottom and sides of the mined out areas are adequately lined with clay before Bottom Ash is filled up. The project proponent shall inform the State Pollution Control Board well in advance before undertaking the activity.	As per the new MoEF&CC guidelines released F.No. 22-13/2019-IA.III dated 28 <sup>th</sup> Aug 2019 on “Change in conditions stipulated in the Environmental Clearances of Thermal Power Plants and Coal Mines in line with the Fly Ash Notification and subsequent amendment”. No abandoned mines are available proximity to SEIL. However, SEIL is taking suitable measures to utilize bottom ash in accordance with the above guidelines.
xxvi	Closed cycle cooling system shall be provided. The effluents shall be treated as per the prescribed norms. COC of at least 1.25 shall be adopted.	<b>Complying.</b>
xxvii	Green Belt consisting of 3 tiers of plantations of native species around plant and at least 100 m width shall be raised. Wherever 100 m width is not feasible a 50 m width shall be raised and adequate justification shall be submitted to the Ministry. Tree density shall not less than 2500 per ha with survival rate not less than 75%.	<b>Complied.</b> An area of 352 acres green belt / green cover developed adopting scientific methods like establishment of mist chamber, drip & sprinkler system, vermicompost production & application of bio pesticides. SEIL is complying w.r.t tree density. Peripheral planting along inside of the compound wall has been completed with 3 tiers of plantation.

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xxviii	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 form the date of issue of this letter.	<b>Not Applicable</b>
xxix	An amount of Rs.27.3 Crores shall be earmarked as one time capital cost for CSR programme. Subsequently a recurring expenditure of Rs.5.5 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.	<p><b>Complying.</b></p> <p>CSR implementation reports are submitted along with six monthly reports.</p> <p><u>SEIL Project-2 (Formerly known as Sembcorp Energy India Limited) status:</u></p> <p>As part of the company's Corporate Social Responsibility initiative, company pays considerable attention to upliftment of local community by providing Education, community health programmes, social infrastructure environment and other developmental initiatives. The company has undertaken the following works:</p> <p>CSR Update from April 2024 to September 2024 attached as <b>Annexure-I</b>.</p>  

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S No.	Condition	Compliance
xxx	<p>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.</p> <p>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.</p>	<p><b>Complying.</b></p> <p>SEIL Energy India Limited strategically focusing on Health, Education and Skill Development Training Programmes across the community.</p>  <p>The first photograph shows a classroom setting with a whiteboard and a banner that reads 'MAKE INDIA CAPABLE YOUTH TRANSFORMATION CENTRE'. The second photograph shows an outdoor health and business center with a banner that reads 'HEALTH &amp; BUSINESS CENTRE'. The third photograph shows a group of women sitting on the floor in a circle, engaged in a community meeting or training session.</p>
xxxii	<p>It shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time.</p>	<p><b>Complying.</b></p>



S No.	Condition	Compliance
xxxii	<p>Criteria pollutant levels including NO<sub>x</sub>, RSPM, SO<sub>x</sub>, (from stack and ambient air) shall be regularly monitored and results displayed in your website and also at the main gate of power plant.</p>	<p><b>Complying.</b></p> <p>Main gate LED display provided. Continuously displaying the stack emissions &amp; ambient quality parameters.</p> <p>Company Website can be accessed by clicking on the below link.</p> <p><a href="https://seilenergy.com/AboutUs/Disclosure">https://seilenergy.com/AboutUs/Disclosure</a></p> 
xxxiii	<p>A Corporate Environmental Policy shall be formulated and after due approval of the Board of Directors of the Company shall be submitted to the Ministry. The policy shall specifically address issues of adherence to environmental clearance conditions stipulated for the power project and others including matters related to violations (if any) to the Board.</p>	<p>Environmental Policy is a part of the QHSE Policy.</p> <p>QHSE Policy is attached as <b>Annexure-X</b>.</p>

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<b>B-General Conditions</b>		
i	<p>The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant.</p> <p>There shall be no discharge outside the plant boundary except during monsoon. Arrangements shall be made that effluents and storm water do not get mixed.</p>	<p><b>Complying.</b></p> <p>Separate Storm Water drainage system constructed.</p> <p>ETP &amp; STP outlet water is reused for green belt development and coal yard dust suppression.</p> <p>ETP &amp; STP treated water analysis reports attached as <b>Annexure-III &amp; Annexure-IV</b> respectively.</p> <p>Marine Outfall effluent analysis report attached as <b>Annexure-II</b>.</p>
ii	<p>A sewage treatment plant shall be provided and the treated sewage shall be used for raising greenbelt/ plantation.</p>	<p><b>Complying.</b></p> <p>STP is fully operational and STP treated water is used for greenbelt development, Horticulture and fugitive dust suppression.</p> <p>STP treated water analysis reports are attached as <b>Annexure-IV</b>.</p> 

S No.	Condition	Compliance
iii	<p>A well designed rain water harvesting system shall be put in place within six months before commissioning of the plant; which shall comprises of rain water collection from the built up and open area in the plant premises. Central Groundwater Authority/Board shall be consulted for finalization of appropriate rainwater harvesting technology and details shall be furnished.</p>	<p><b>Complying.</b></p> <p>SEIL Project-2 (Formerly known as Sembcorp Energy India Limited) is not using any groundwater for its operations or non-plant operations.</p> <p>Rainwater harvesting technology study report is done through reputed consultant (Retd. CGWB Director). Report submitted to MoEF&amp;CC &amp; APPCB on 27<sup>th</sup> February 2020.</p> <p>Rainwater Harvesting Pits are in service.</p> 
iv	<p>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>	<p><b>Complying.</b></p> <p>Layout drawing of fire hydrants &amp; monitors submitted along with EC six monthly compliance report vide letter No. SGPL/ MoEF/Chennai/EC/15 dated 5<sup>th</sup> January 2018. Plant Layout Map attached as <b>Annexure-XI.</b></p> <p>Stockpile Dust Suppression sprinklers installed in all coal yards.</p>

S No.	Condition	Compliance
v	Storage facilities for auxiliary liquid fuel such as LDO and / HFO /LSHS shall be made in the plant area 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.	<p><b>Complying.</b></p> <p>Valid CCOE License attached as <b>Annexure-XII.</b></p> <p>Emergency Response Plan has been prepared and widely communicated among work force.</p>
vi	Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area has not been carried out particularly for heavy metals (Hg, Cr, As, Pb) and records maintained and submitted to the Regional Office of this ministry. The data so obtained should be compared with the base line data so as to ensure that the ground water quality is not adversely affected due to the project.	<p><b>Complying.</b></p> <p>Existing bore well data is monitored through approved reputed environmental consultant.</p> <p>Piezo wells are constructed and in service around ash pond. Ground Water levels monitoring is being carried out on quarterly basis.</p> <p>Piezometer Bore wells analysis reports attached as <b>Annexure-IX.</b></p>
vii	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	<p><b>Complied.</b></p>  

S No.	Condition	Compliance
Viii	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/ear muffs 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.	<b>Complying.</b> Quarterly Noise monitoring studies are carried out through MoEF&CC approved laboratory. Reports attached as <b>Annexure-XIII</b> .
ix	Regular monitoring of ground level concentration of SO <sub>2</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 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.	<b>Complying.</b> Ambient Air Quality Monitoring carried out by MoEF&CC approved Laboratory and Six-monthly reports submitted to APPCB. Reports attached as <b>Annexure-XIV</b> .
x	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, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Complied during construction phase.

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 SPSR Nellore (Dist.), Andhra Pradesh.


**EC No. J 13012/76/2009-IA. II (T), Date: 30.09.2010, 18.05.2011 & 04.03.2016**

S No.	Condition	Compliance
xi	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 Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> .	<b>Complied.</b> Environment clearance letter has been put up on SEIL website @ <a href="https://seilenergy.com/AboutUs/Disclosure">https://seilenergy.com/AboutUs/Disclosure</a>
xii	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad. / Municipal Corporation, urban local Body and the Local NOO, 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> Environment clearance letter has been put up on SEIL website @ <a href="https://seilenergy.com/AboutUs/Disclosure">https://seilenergy.com/AboutUs/Disclosure</a>
xiii	A dedicated Environment management Cell with suitable qualified personnel constituting of Marine Biologist and an ecologist shall be set-up under the control of a Senior Executive who will report directly to the Head of the Organization.	<b>Complying.</b> SEIL has established an Environment Management Cell with suitable qualified personnel under the supervision of Head-HSE who directly reports to the Station Head.




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S No.	Condition	Compliance
xiv	The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollution levels namely; SPM, RSPM, SO2, NOx (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><b>Complying.</b></p> <p>EC Six monthly compliance reports are being submitted. (Ref: SEIL P2/ MoEF&amp;CC/ Chennai/ 2024/003 dated 30<sup>th</sup> May 2024)</p> <p>The reports are uploaded on SEIL website @ <a href="https://seilenergy.com/AboutUs/Disclosure">https://seilenergy.com/AboutUs/Disclosure</a></p> 
xv	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well by e-mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB.	<p><b>Complying.</b></p> <p>EC Six monthly compliance reports are being submitted. (Ref: SEIL P2/ MoEF&amp;CC/ Chennai/ 2024/003 dated 30<sup>th</sup> May 2024)</p> <p>The reports are uploaded on SEIL website @ <a href="https://seilenergy.com/AboutUs/Disclosure">https://seilenergy.com/AboutUs/Disclosure</a></p>
xvi	The environment statement for each financial year ending 31st 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 by e-mail.	<p><b>Complying.</b></p> <p>(Environment Statement in Form-V submitted to APPCB vide letter No. SEIL P2/ APPCB/ BZA/2024/006 dated 27<sup>th</sup> September 2024)</p>

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**EC No. J 13012/76/2009-IA. II (T), Date: 30.09.2010, 18.05.2011 & 04.03.2016**

S No.	Condition	Compliance
xvii	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 environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same bye-mail to the Regional Office, Ministry of Environment and Forests.	<p><b>Complied.</b></p> <p>EC Six Monthly Compliance Reports are being submitted. (Ref: SEIL P2/ MoEF&amp;CC/ Chennai/ 2024/003 dated 30<sup>th</sup> May 2024)</p> <p>The reports are uploaded on SEIL website @ <a href="https://seilenergy.com/AboutUs/Disclosure">https://seilenergy.com/AboutUs/Disclosure</a></p>
xviii	Regional Office of the Ministry of Environment & 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 up-load the compliance status in their website and up-date the same from time to time at least six monthly basis. Criteria pollutants levels including NOx (from stack & ambient air) shall be displayed at the main gate of the power plant.	<p><b>Complied.</b></p>  <p>The reports were submitted to Ministry during project phase. EIA and EMP were already submitted.</p>

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S No.	Condition	Compliance
xix	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.	<b>Complying.</b> Funds were spent for implementation of Environment protection measures during the project stage. However, continuous recurring cost for Environment management (EQMS, AAQM, CEMS, Hydro-geology studies & Environment Monitoring etc.) during operation is allocated from Annual budget. Expenditure details attached as <b>Annexure-XV</b> .
xx	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 commissioning of plant.	<b>Complied.</b>
xxi	Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry at Bangalore / CPCB / SPCB who would be monitoring the compliance of environmental status.	<b>Complying.</b>
4	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>

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S No.	Condition	Compliance
5.	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 notification. The 2x660 MW project has already commenced operations since 2016.
6.	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>
7.	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 for compliance.</b>
8.	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>
9.	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>

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

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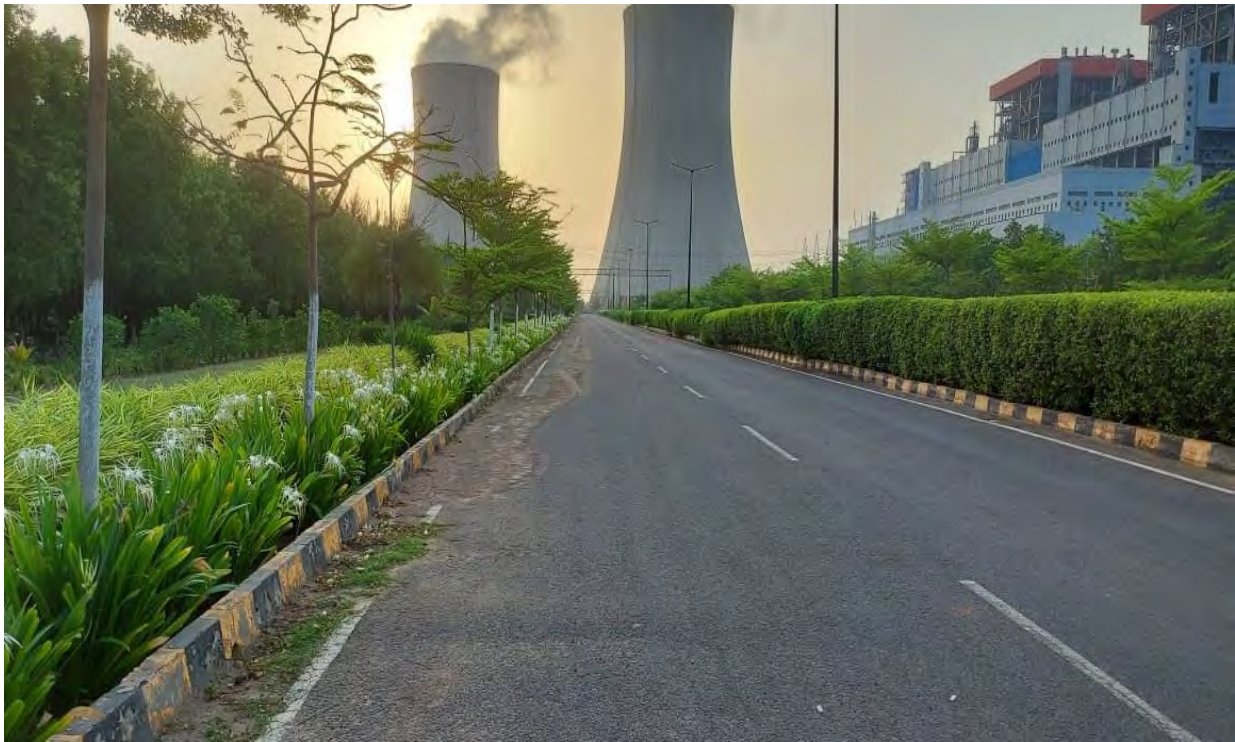
**GREEN COVER AROUND PERIPHERY**

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**GREEN COVER ALONG THE PLANT ROADS**

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*M/s. SEIL Energy India Limited Project-2*  
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**GREEN COVER ALONG PIPE RACK & INTERNAL ROADS**



**GREEN COVER INSIDE THE PLANT**

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**GREEN COVER ALONG MAIN PLANT ROAD**



**AVENUE PLANTATION**

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**EC No. J 13012/76/2009-IA. II (T), Date: 30.09.2010, 18.05.2011 & 04.03.2016**

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**GREEN COVER NEAR PLANT SERVICE BUILDING**



**GREEN COVER NEAR SERVICE BUILDING**

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**GREEN COVER IN NORTH EAST AREA**



**COAL YARD WATER SPRINKLING**

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

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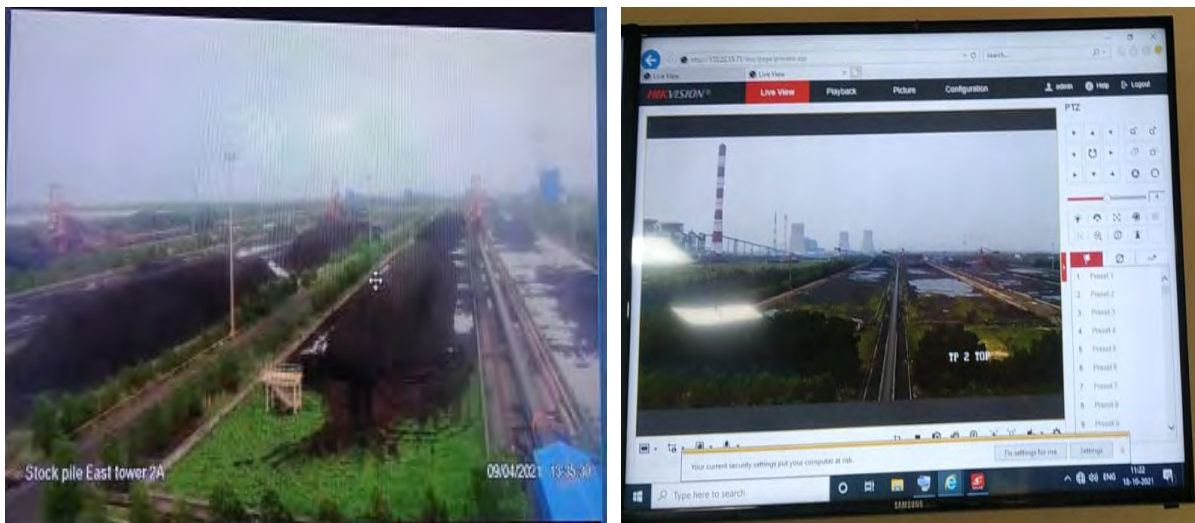
*M/s. SEIL Energy India Limited Project-2  
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**EC No. J 13012/76/2009-IA. II (T), Date: 30.09.2010, 18.05.2011 & 04.03.2016**

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**WIND BREAK PLANTATION AROUND COAL YARD**



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

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SPSR Nellore (Dist.), Andhra Pradesh.*

**EC No. J 13012/76/2009-IA. II (T), Date: 30.09.2010, 18.05.2011 & 04.03.2016**

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**DUST EXTRACTION SYSTEM AT TRANSFER POINTS**



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

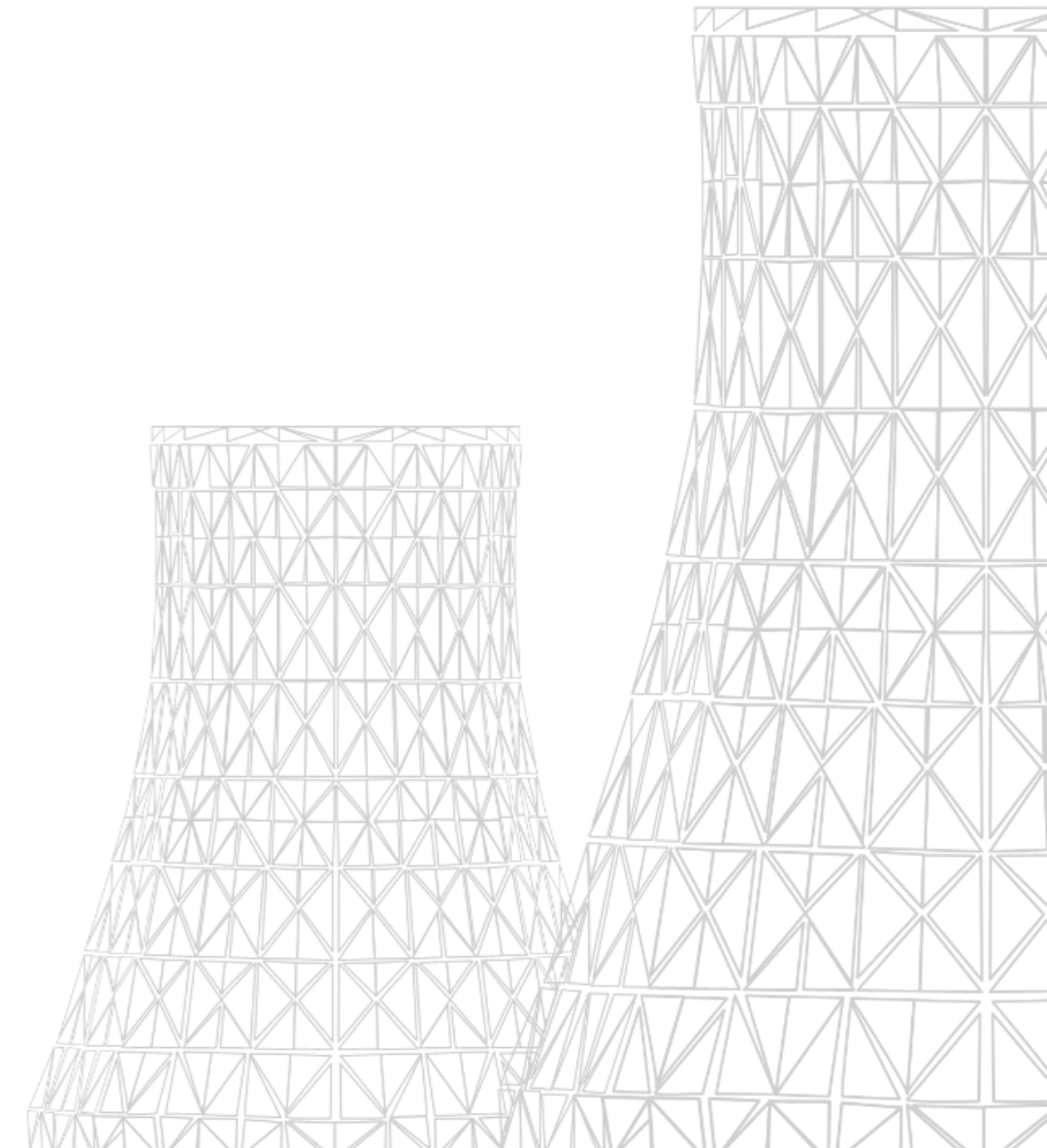
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ANNEXURE-I

# CSR Updates

HY-1 FY2024-25



# CSR Updates

For Q1 FY24 -25

(1/5)



HEALTH

➤ **Mobile Medical Unit (MMU):**

Consultation provided to 2332 villagers  
(Female-1236, Male-945, Female Child- 72, Male Child- 79 ).

➤ **Telemedicine Center:** Total beneficiaries:-1875

- General consultations-1715
- Specialty Consultations – 170
- Pharmacy -1715; Lab Investigations -443

Community Outreach

- Social Health Education Programmes beneficiaries- 378
- Non-Communicable Disease Screenings - 326 beneficiaries.





For Q1 FY24 -25



Education

➤ **Quality Education Intervention initiatives with Bala Raksha Bharath (Save the Children)**

- 2492 students in classes VI to IX in 20 schools are undergoing a learning improvement program
- Do it Yourself (DIY) designed for children of 6 to 8 grades has been provided in 20 schools for children to access the materials independently, allowing them to cultivate a deep understanding of scientific concepts through active learning

➤ **Transforming Preprimary Education in Anganwadi Centers (Plan India)**

- 392 sessions in teaching Telugu/English alphabet and Numbers. This includes teaching, slate work, and recitation of alphabets & numbers.
- 112 sessions are conducted in teaching and identification of different shapes. 119 sessions are conducted in storytelling.
- Many parents can identify positive changes happening in their children's lives respect to learning abilities
- Sessions with mothers, and fathers were conducted through home visits and were encouraged them to visit and participate in Anganwadi activities
- Renovation of Anganwadi Centers initiated and completed at One Center and others are in progress.



VISIT OF BOARD MEMBERS – QUALITY EDUCATION IN CLASS VI – IX IN 20 GOVERNMENT SCHOOLS

# CSR Updates For Q1FY24 -25

(3/5)

## Glimpses- Education



### Transforming Preprimary Education



Teaching kids at Anganwadi Centre.

### Visit of Board members to Anganwadi Center



### Children enrolment drive in Anganwadi's and Training Programme for mothers



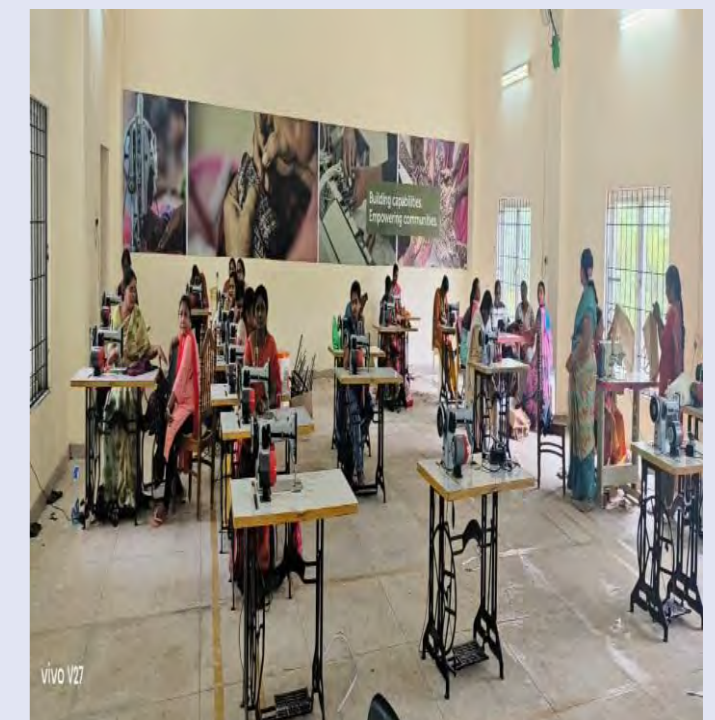
### Skill Development

#### ➤ Training Program on Jute Bag Stitching

- 35 Women are undergoing the Jute Bag stitching program at SEDC

#### ➤ Youth Empowerment Through Make India Capable

- Head Held High (HHH)- Youth empowerment Training & Counselling Salipeta center.
- 30 Numbers youth completed counseling and training
- 92 families benefitted through social security schemes (Ayushman Bharat, Esham Yojana, ATM Insurance) entitlements
- Placements were offered for 28 number youths in various organizations





DECARBONISATION  
&  
OTHERS

### World Environment Day Plantation initiatives – 650 School Children

- Plantation at Pidathapoluru and Varakavipudi Government Schools –conducted on 5<sup>th</sup> June with support from Bala Raksha Bharath
- 50 Plants were planted on 6<sup>th</sup> June at MV Palem school, Shri Rajasekhar, Regional Officer, AP Pollution Control Board, was Chief Guest for Plantation. Senior members from SEIL were present on the occasion.



### World No Tobacco Day 2024 Awareness sessions conducted by the Health and Wellness Center

- 101 members of which 82 community members and 19 truck drivers participated.

#### The topics covered in the session are

1. Health Risks of Tobacco Use
2. Secondhand Smoke Exposure Risks
3. Smoking Cessation
4. Protecting youth and children from tobacco




Awareness to Bulker Drivers



# Carbon Capture Project – Status.



We supported IIT Chennai for research on “chemogel superabsorbent formulation for carbon capture”. IIT Chennai has been awarded the patent for the technology by the Patent Office, GoI and they have thanked SEIL for the support.



**Department of Chemical Engineering**  
**Indian Institute of Technology Madras, Chennai 600 036**

Dr. Jitendra S. Sangwai  
Professor

Phone: +91-44-2257-4825; Fax: +91-44-2257-4802  
[jts@iitm.ac.in](mailto:jts@iitm.ac.in); [jts@iitm.ac.in](mailto:jts@iitm.ac.in)

Date: 01/08/2024

To,  
The Head,  
Corporate Social Responsibility (CSR)  
SEIL Energy India Limited.

**Subject:** Grant of patent out of CSR project funded by SEIL Energy India Limited.

Dear Sir,

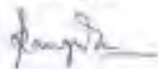
Greetings!

I am very happy to inform you that following patent has been granted. The patent is out of CSR project given by SEIL Energy India Limited on the project “Large-scale CO<sub>2</sub> capture from high sulfur flue gas exhaust from coal-fired plants” (Ref. CR2324138DCHSEIL008450).

Patent No:	544962
Application No:	202341086640
Filed and granted on:	Filed: 18 December 2023, Granted on 15 July 2024.
Title:	CHEMOGEL SUPERABSORBENT FORMULATION FOR CARBON CAPTURE
Inventors:	KUMAR, Yogendra; SANGWAI, Jitendra S.
Applicant:	INDIAN INSTITUTE OF TECHNOLOGY MADRAS (IIT Madras)
Our Ref No:	IITM-022700IN
IDF no.	2697

I am sincerely thankful for your CSR support for the above project.

Thank you.

  
(Dr. Jitendra S. Sangwai)




भारत सं. SL No. 044190543

**पेटेंट कार्यालय, भारत सरकार** | **The Patent Office, Government Of India**  
**पेटेंट प्रमाण पत्र** | **Patent Certificate**  
(पेटेंट नियमावली का नियम 74) | (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. : 544962

आवेदन सं. / Application No. : 202341086640

फाइल करने की तारीख / Date of Filing : 18/12/2023

पेटेंटी / Patentee : Indian Institute of Technology Madras (IIT Madras)

आविष्कारकों का नाम / Name of Inventor(s) : 1.KUMAR, Yogendra.2.SANGWAI, Jitendra S.

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित **CHEMOGEL SUPERABSORBENT FORMULATION FOR CARBON CAPTURE** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख दिसम्बर 2023 के अठारहवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदान किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled **CHEMOGEL SUPERABSORBENT FORMULATION FOR CARBON CAPTURE** as disclosed in the above mentioned application for the term of 20 years from the 18<sup>th</sup> day of December 2023 in accordance with the provisions of the Patents Act,1970.



  
Controller of Patents

अनुदान की तारीख : 15/07/2024  
Date of Grant : 15/07/2024

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, दिसम्बर 2025 के अठारहवें दिन को और उसके पचास त्रयोदश वर्ष में उनी दिन देय होगी।  
**Note** - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 18<sup>th</sup> day of December 2025 and on the same day in every year thereafter.



- SEIL bagged two awards in the India CSR & Sustainability Conclave 2024 conducted by Brands Global Media
- SEIL representatives received awards at the conclave on 27<sup>th</sup> August in two categories:
  - **Best Healthcare and Wellness Program**
  - **Best Environmentally Sustainable Program**
- SEIL's comprehensive healthcare initiatives include projects on Mobile Medical Units, Eye and Ear Screening, Health and wellness centers, Support to Public Health Centers and Charitable Health Institutions for Medical equipment.
- SEIL Environment sustainable measures such as On-grid, and off-grid Solar initiatives, Plantation, Solar Street lights, and Solar water pumps at the plantation sites, aided in winning the award

## Awards & Recognitions



Best Healthcare and Wellness Program  
provided by Shri MS Bitra, Social Worker, and Peepal Baba



Best Environmentally Sustainable Program  
Award provided by Shri Nikhil Pant and Gayatri Subramanian & Others

- SEIL Energy Contributes INR 50,00,000 to Flood Victims in Andhra Pradesh through Smart Andhra Pradesh Foundation. The contribution cheque was handed over to the Chief Minister of Andhra Pradesh by SEIL Senior Management Representatives



Support to  
Andhra Pradesh  
Floods



## Employee Engagement

- Employee teams have been formed with leads from senior management to volunteer for CSR projects and to strengthen, and support the implementation of CSR projects
- 15 teams with 63 team members were finalized for monitoring the CSR projects with 'Team Leads. Each team contains a minimum of 3 members.
- The teams have been oriented on CSR Projects and field visits are made by them.



# CSR Updates

For Q2 FY24 -25

(5/5)



HEALTH

➤ **Telemedicine Centers MV Palem & Salipeta:** Total beneficiaries:- 4524

- General consultations - 4114
- Specialty Consultations - 410
- Pharmacy - 4280; Lab Investigations - 2152

Community Outreach coverage

- Social Health Education Programme - 1176 beneficiaries
  - Non-Communicable Disease Screenings - 1314 beneficiaries.
- The Head O&M, SEIL Energy India Limited, inaugurated the Health and Wellness Center at Salipeta
- Medical equipment's Harmonic Scalpel, Laparoscopic Machine, Morcellator, Laser Machine received by Jaya Bharath Hospital



Inauguration of Health and Wellness Center at Salipeta



Specialist Gynaecologist inspecting the patient



Community Patient Screening programme



Community Health Awareness programme



### Education

#### Quality Education Intervention initiatives with Bala Raksha Bharath (Save the Children) in 20 Government Schools

- Two days training Programme (August 22<sup>nd</sup> and 23<sup>rd</sup>) conducted for the teachers from our 20 Project surrounding schools on Learning Improvement Programme( LIP) on the first day and on Child centric Pedagogy on day two.
- Around 60 teachers( 40 Teachers and 20 Headmasters ) from 20 schools attended the two-day training Programme
- Resource persons of Sarva Shiksha Abhiyan, AP Govt conducted the training. The Academic Monitoring officer of the District addressed the teachers and appreciated the initiative and support of SEIL Energy.
- Two days of School Complex Meetings were organized on 17<sup>th</sup> & 18<sup>th</sup> September at TP Gudur and Muthukuru, with teachers from 60 schools. Our 20 project intervention schools consisting of 60 teachers and four Mandal Education Officers were also part of these meetings and LIP progress was shared.
- Meetings were conducted with new School Management Committees, teachers, and parents of 10 schools in this month. The objectives of Project initiatives were explained to the forum for support and participation



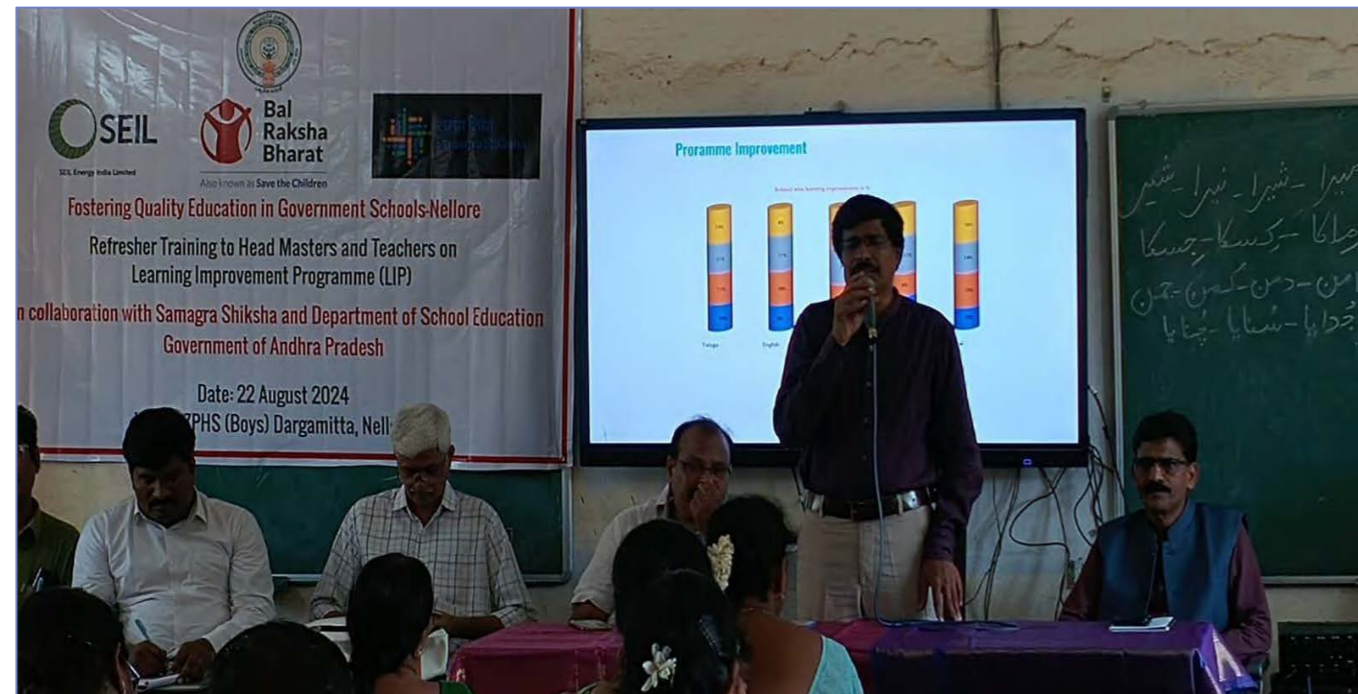
Sharing of the baseline vs midline assessment of learning outcomes



Teachers Training programme (School Complex)

# TEACHERS TRAINING PROGRAM BY BAL RAKSHA BHARAT

(7/7)



Teachers training programme on learning improvement programme Academic monitoring officer addressing the teachers

Sharing of the baseline vs midline assessment learning outcomes with teachers & resource persons

# TEACHERS AND SMCS TRAINING PROGRAM BY BALA RAKSHA BHARAT



(8/8)



Teachers training programme ( school complex )





## Education

### ➤ Transforming Preprimary Education in Anganwadi Centers (Plan India)

-Progress. Renovation of Anganwadi Centers initiated and completed at One Center and is under process in 4 Centers. Following are the updates for the month.

- 737 sessions in teaching /English alphabet. This includes education, slate work, and recitation
- 272 sessions were conducted to teach the Telugu alphabet.
- 282 sessions were conducted to teach the Numbers
- 271 Sessions were conducted on identifying shapes
- 821 mothers joined the mother group meetings conducted this month in 8 Anganwadi's
- 388 Community people joined the sensitization drives conducted in 8 Villages
- 1593 People ( 309 men & 1284 women) participated in the Playday Programme conducted at 8 Centers
- 53 sessions of training on Low-cost TLM to the parents and adults in the community with the participation of 511 members



Internal Painting of Anganwadi Center



Child-friendly ambiance development

# TRANSFORMATION OF PRE-PRIMARY EDUCATION (PLAN INDIA )

(10/10)



Mother group meetings



Community Sensitization drives



Playday celebrations in Anganwadi Centers

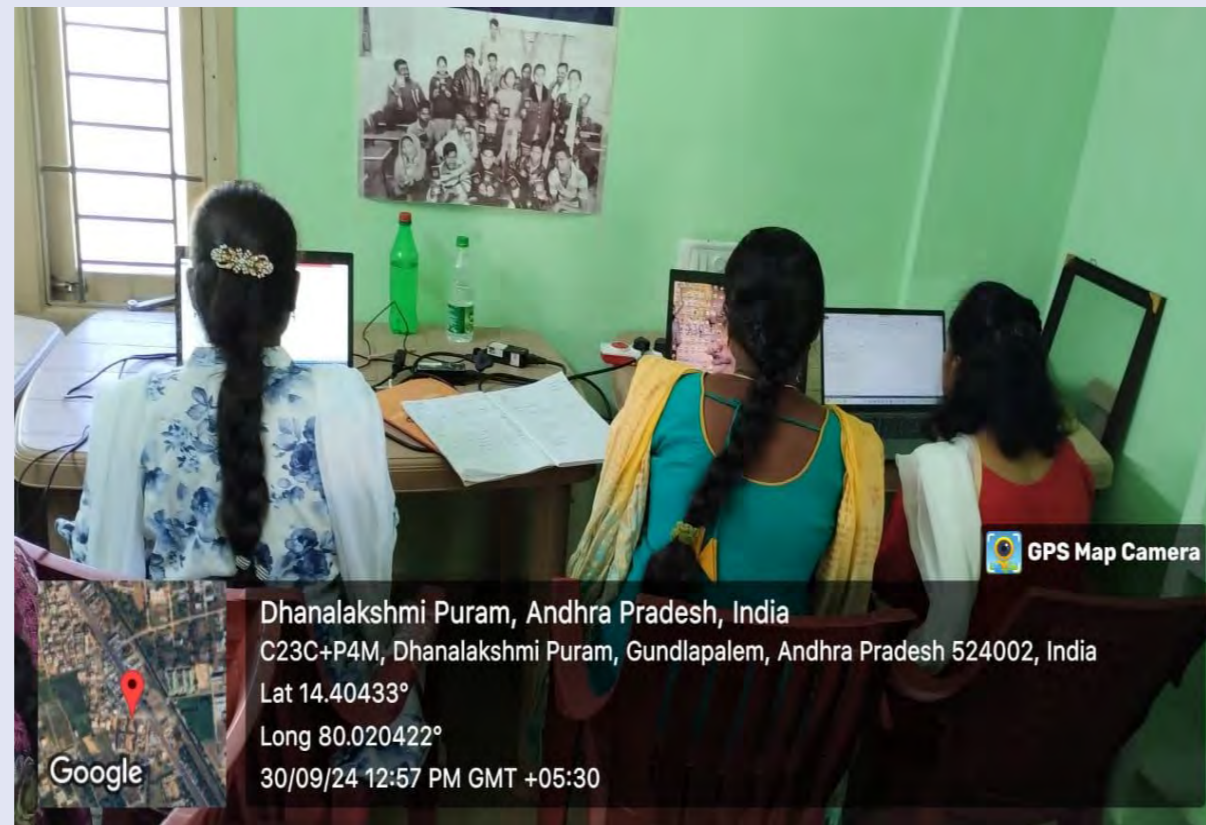


## ➤ Youth Empowerment Through Make India Capable

- Head Held High (HHH)- Youth empowerment Training & Counselling Salipeta center.
- 30 Number of youths completed training. 25 have joined the placement opportunities provided to them.
- 18 youths in the 2nd Batch. Completed training at Salipeta Center
- 25 Number of youth undergoing training at Dhanalakshmi Puram Center
- 25 Number of women are undergoing Entrepreneurship Training at South Amluru Centre



## Skill Development



Computer Training of the students



Classroom training of the students

# YOUTH EMPOWERMENT SKILL TRAINING – HEAD HELD HIGH



(12/12)



Skill training program on flower making, bag stitching, candle making





- Four Solar water pumps have been installed and are in operation at Vikram Simhapuri University premises
- 250 KWP solar on-grid installations completed at Three Charitable institutions (Jai Bharat Hospital, St Joseph Hospital & Dr. PV Ramachandra Reddy People's Poly Clinic)
- Module mounting structure, DC & AC Cabling, Earthing completed for three locations
- Feasibility DISCOM approved
- CEIG drawing approved for Jaya Bharat and St Joseph Hospital. Approval is in process for Dr Ramachandra Reddy Hospital
- LA installation and LT Panel Installation Completed
- Net metering and final meter installation are in progress



## DECARBONISATION & OTHERS



Solar Pump installation at Plantation Site



On-grid Solar installation at Charitable Hospital





## Rural Development

### Veterinary Camps – ASSET&W

- A Comprehensive ground study was conducted covering 333 Households in Six Panchayats of our project area
- Five Veterinary camps were conducted at Musunuri Varipalem, Mallikarjun Puram, Eduru Harijan Wada, Pynapuram, and Nelaturu.
- A total of 271 Farmers were registered in the camps. They were provided Suitable medicines, and mineral mixtures by veterinary Doctors after the examination in the Veterinary Camps
- Treatment provided to cattle 734, Buffaloes 1317, Sheep 914, Goats 267 and Poultry 2072
- Trevis Installed at Four Locations 1. Eduru Harijan Wada, Nelaturu Harijan Wada, Nelaturupalem, Mandapam



Government Animal Husbandry official addressing animal health camp



Inauguration of new travis at animal health camp

**Thank You**





# SPECTRA ENVIROTECH PVT LTD

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

## TEST REPORT

ANNEXURE-II

ISSUED TO: <b>M/s. SEIL ENERGY INDIA LIMITED PROJECT-2</b> (2x660 MW Coal Based Thermal Power Plant), Near Ananthavaram (V), Thotapalli Gudur (M), SPSR Nellore (Dist.) -524344.	
<b>Discipline: Chemical</b> <b>Group: Water</b> <b>Product: Marine Outfall Water</b> <b>Date of Sampling: 09.05.2024</b> <b>Sample Collected By: Ganesh</b>	<b>Sample Registration Date: 11.05.2024</b> <b>Analysis Starting Date: 11.05.2024</b> <b>Analysis Completed Date: 20.05.2024</b> <b>Issue Date: 20.05.2024</b> <b>Lab Ref: SEPL/ES/SEILEILP/05-24/0001</b>

## TEST RESULT

S. NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1	pH	IS:3025(Part-11)1983	--	7.7	6.5-8.5
2	Temperature Intake	--	°C	29.2	Shall not exceed 5°C above the Receiving temperature
3	Temperature Out Fall	--	°C	31.4	
4	Electric Conductivity	IS: 3025:1964	µs/cm	23568	--
5	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	18,614	--
6	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	42	100
7	Chemical Oxygen Demand	IS:3025(Part-58)-2006	mg/l	89	250
8	Biochemical Oxygen Demand (3 days at 27°C)	IS:3025(Part-44)-1993	mg/l	48	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	4201	--
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	4.0	--
14	Calcium as Ca	IS:3025(Part-40)-2012	mg/l	1,290	--
15	Magnesium as Mg	IS:3025(Part-46)-2012	mg/l	221	--
16	Sodium as Na	IS:3025(Part-45)1993	mg/l	766	--

K.S.Laj  
Verified by



Praveesh W.  
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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S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
17	Potassium as K	IS:3025(Part-45)1993	mg/l	289	--
18	Chloride as Cl	IS:3025(Part-32)-2012	mg/l	7,525	--
19	Sulphates as SO <sub>4</sub>	IS:3025(Part-24)-2012	mg/l	751	--
20	Nitrates as NO <sub>3</sub>	IS:3025(Part-34)-2012	mg/l	35.9	--
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	457	--
23	Iron as Fe	IS:3025(Part-53)-2012	mg/l	4.1	--
24	Fluoride as F	IS:3025(Part-60)-2012	mg/l	1.9	--
25	Copper as Cu	IS:3025(Part-42)-2012	mg/l	0.63	--
26	Manganese as Mn	IS:3025(Part-59)-2012	mg/l	0.47	--
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	0.44	--
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	0.001	--
37	Silica as SiO <sub>2</sub>	IS:3025(Part-35)-2019	mg/l	31.3	--

Note: IS- Indian Standard

K.S.Lal  
Verified by



P. Suresh W.  
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: <b>M/s. SEIL ENERGY INDIA LIMITED PROJECT-2</b> (2x660 MW Coal Based Thermal Power Plant), Near Ananthavaram (V), Thotapalli Gudur (M), SPSR Nellore (Dist.) -524344.	
<b>Discipline: Chemical</b> <b>Group: Water</b> <b>Product: Marine Outfall Water (Fish Bio-Assay Test)</b> <b>Date of Sampling: 09.05.2024</b> <b>Sample Collected By: Ganesh</b>	<b>Sample Registration Date: 11.05.2024</b> <b>Analysis Starting Date: 11.05.2024</b> <b>Analysis Completed Date: 20.05.2024</b> <b>Issue Date: 20.05.2024</b> <b>Lab Ref: SEPL/ES/SEILEILP/05-24/0002</b>

## TEST RESULT

TEST SPECIES	SOURCE OF ORGANISM	LENGTH & WEIGHT (For Fish)	REMARKS
Zebra Fish	Through vendors	1. Length 4.7 cm 2. Weight 3.9 gm	1. Fish were not fed <u>Yes</u> 2. Temperature range in aquarium 25°C

## REFERENCE TEST DATA

START DATE: 11.05.2024 END DATE: 20.05.2024
<b>COMMENTS:</b>
The test species were undergone toxicity for about 96 Hrs.  RESULT: 97% survival of fish was noticed

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

*K.S. Jay*  
Verified by



*Praveesh W.*  
Authorized by  
Managing Director

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## TEST REPORT

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<b>Discipline: Chemical</b> <b>Group: Water</b> <b>Product: Marine Outfall Water</b> <b>Date of Sampling: 22.08.2024</b> <b>Sample Collected By: Ganesh</b>	<b>Sample Registration Date: 23.08.2024</b> <b>Analysis Starting Date: 23.08.2024</b> <b>Analysis Completed Date: 29.08.2024</b> <b>Issue Date: 29.08.2024</b> <b>Lab Ref: SEPL/ES/SEILEILP/08-24/0001</b>

## TEST RESULT

S. NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1	pH	IS:3025(Part-11)1983	--	7.2	6.5-8.5
2	Temperature Intake	--	°C	28.6	Shall not exceed 5°C above the Receiving temperature
3	Temperature Out Fall	--	°C	30.3	
4	Electric Conductivity	IS: 3025:1964	µs/cm	24174	--
5	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	17,735	--
6	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	49	100
7	Chemical Oxygen Demand	IS:3025(Part-58)-2006	mg/l	81	250
8	Biochemical Oxygen Demand (3 days at 27°C)	IS:3025(Part-44)-1993	mg/l	54	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	4423	--
11	Total Alkalinity as CaCO <sub>3</sub>	IS:3025(Part-23)-2012	mg/l	664	--
12	P- Alkalinity as CaCO <sub>3</sub>	IS:3025(Part-13)-1964	mg/l	Nil	--
13	Turbidity	IS:3025(Part-10)-2012	NTU	4.8	--
14	Calcium as Ca	IS:3025(Part-40)-2012	mg/l	1,174	--
15	Magnesium as Mg	IS:3025(Part-46)-2012	mg/l	256	--
16	Sodium as Na	IS:3025(Part-45)1993	mg/l	574	--

K.S.Laj  
Verified by



P. Praveesh W.  
Authorized by  
Managing Director

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S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
17	Potassium as K	IS:3025(Part-45)1993	mg/l	275	--
18	Chloride as Cl	IS:3025(Part-32)-2012	mg/l	7,236	--
19	Sulphates as SO <sub>4</sub>	IS:3025(Part-24)-2012	mg/l	768	--
20	Nitrates as NO <sub>3</sub>	IS:3025(Part-34)-2012	mg/l	40.8	--
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	464	--
23	Iron as Fe	IS:3025(Part-53)-2012	mg/l	4.7	--
24	Fluoride as F	IS:3025(Part-60)-2012	mg/l	1.5	--
25	Copper as Cu	IS:3025(Part-42)-2012	mg/l	0.74	--
26	Manganese as Mn	IS:3025(Part-59)-2012	mg/l	0.53	--
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	0.47	--
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	0.001	--
37	Silica as SiO <sub>2</sub>	IS:3025(Part-35)-2019	mg/l	34.6	--

Note: IS- Indian Standard

K.S.Lal  
Verified by



P. Suresh W.  
Authorized by  
Managing Director

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Web : [www.spectraenviro.com](http://www.spectraenviro.com) | E-mail: [sepl.sjn@gmail.com](mailto:sepl.sjn@gmail.com) | [info@spectraenviro.com](mailto:info@spectraenviro.com)

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## TEST REPORT

ISSUED TO: <b>M/s. SEIL ENERGY INDIA LIMITED PROJECT-2</b> (2x660 MW Coal Based Thermal Power Plant), Near Ananthavaram (V), Thotapalli Gudur (M), SPSR Nellore (Dist.) -524344.	
<b>Discipline: Chemical</b> <b>Group: Water</b> <b>Product: Marine Outfall Water (Fish Bio-Assay Test)</b> <b>Date of Sampling: 22.08.2024</b> <b>Sample Collected By: Ganesh</b>	<b>Sample Registration Date: 23.08.2024</b> <b>Analysis Starting Date: 23.08.2024</b> <b>Analysis Completed Date: 29.08.2024</b> <b>Issue Date: 29.08.2024</b> <b>Lab Ref: SEPL/ES/SEILEILP/08-24/0002</b>

## TEST RESULT

TEST SPECIES	SOURCE OF ORGANISM	LENGTH & WEIGHT (For Fish)	REMARKS
Zebra Fish	Through vendors	1. Length 4.5 cm 2. Weight 3.8 gm	1. Fish were not fed <u>Yes</u> 2. Temperature range in aquarium 26°C

## REFERENCE TEST DATA

START DATE: 23.08.2024 END DATE: 29.08.2024
<b>COMMENTS:</b>
The test species were undergone toxicity for about 96 Hrs. RESULT: 98% survival of fish was noticed

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

K.S.Laj  
Verified by



*Praveesh W.*  
Authorized by  
Managing Director

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## TEST REPORT

ANNEXURE-III

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-2**

(2x660 MW Coal Based Thermal Power Plant),  
Near Ananthavaram (V), Thotapalli Gudur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline: Chemical**

**Group: Water**

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

**Date of Monitoring: 09.05.2024**

**Sample Collected By: Ganesh**

**Sample Registration Date: 11.05.2024**

**Analysis Starting Date: 11.05.2024**

**Analysis Completed Date: 20.05.2024**

**Issue Date: 20.05.2024**

**Lab Ref: SEPL/ES/SEILEILP/05-24/0002**

## TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARD
1.	pH	IS:3025(Part-11)1983	--	7.0	5.5-9.0
2.	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	289	2100
3.	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	45	200
4.	Chemical Oxygen Demand	IS:3025(Part-58)-1986	mg/l	40	250
5.	Biochemical Oxygen Demand (5 days at 20°C)	IS:3025(Part-44)-1993	mg/l	27	100
6.	Oil & Grease	IS:3025(Part-39)-1991	mg/l	<1.0	10

Note: IS- Indian Standard

K.S.Laj  
Verified by



P. Suresh W.  
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-2**

(2x660 MW Coal Based Thermal Power Plant),  
Near Ananthavaram (V), Thotapalli Gudur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline: Chemical**

**Group: Water**

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

**Date of Monitoring: 22.08.2024**

**Sample Collected By: Ganesh**

**Sample Registration Date: 23.08.2024**

**Analysis Starting Date: 23.08.2024**

**Analysis Completed Date: 28.08.2024**

**Issue Date: 28.08.2024**

**Lab Ref: SEPL/ES/SEILEILP/08-24/0002**

## TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARD
1.	pH	IS:3025(Part-11)1983	--	6.9	5.5-9.0
2.	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	372	2100
3.	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	68	200
4.	Chemical Oxygen Demand	IS:3025(Part-58)-1986	mg/l	43	250
5.	Biochemical Oxygen Demand (5 days at 20°C)	IS:3025(Part-44)-1993	mg/l	26	100
6.	Oil & Grease	IS:3025(Part-39)-1991	mg/l	<1.0	10

Note: IS- Indian Standard

*K.S. Raj*  
Verified by



*Praveesh W.*  
Authorized by  
Managing Director

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

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**TEST REPORT**

**ANNEXURE-IV**

REF.NO: UEA/SEIL/R2/0424

Date: 09-04-2024

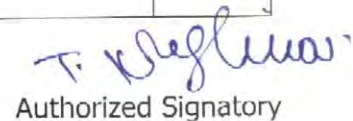
**WASTEWATER ANALYSIS**

Name of the Industry & Address : **M/s. SEIL Energy India Ltd. (Project-2),**  
Ananthavaram (V),  
TP Gudur (M),  
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet  
Date of collection : 02-04-2024  
Date of Analysis : 02-04-2024

S No	Parameter	Units	Method	Result
1	pH @ 25.0°C	---	APHA 23 <sup>rd</sup> Edition,2017, 4500 H+ B	7.38
2	Total Dissolved Solids	mg/L	APHA 23 <sup>rd</sup> Edition,2017, 2540 C	683
3	Total Suspended Solids	mg/L	APHA 23 <sup>rd</sup> Edition,2017, 2540 D	18.9
4	Chemical Oxygen Demand	mg/L	APHA 23 <sup>rd</sup> Edition,2017: 5220 B	15.9
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, Reaffirmed 2014	<4.0
6	Oil & Grease	mg/L	APHA 23 <sup>rd</sup> Edition,2017: 5520 C	0.58
7	Fecal Coliforms per 100ml	MPN/100 ml	IS:1622:1981	Absent
8	E - Coli forms	MPN/100 ml	IS:1622:1981	Absent

  
Analyst

  
Authorized Signatory



REF.NO: UEA/SEIL/R2/0524

## TEST REPORT

Date: 21-05-2024

### WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEIL Energy India Ltd. (Project-2),**  
Ananthavaram (V),  
TP Gudur (M),  
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet  
Date of collection : 14-05-2024  
Date of Analysis : 14-05-2024

S No	Parameter	Units	Method	Result
1	pH @ 25.0°C	---	APHA 23 <sup>rd</sup> Edition,2017, 4500 H+ B	7.55
2	Total Dissolved Solids	mg/L	APHA 23 <sup>rd</sup> Edition,2017, 2540 C	598
3	Total Suspended Solids	mg/L	APHA 23 <sup>rd</sup> Edition,2017, 2540 D	13.3
4	Chemical Oxygen Demand	mg/L	APHA 23 <sup>rd</sup> Edition,2017: 5220 B	17.7
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, Reaffirmed 2014	<4.0
6	Oil & Grease	mg/L	APHA 23 <sup>rd</sup> Edition,2017: 5520 C	0.65
7	Fecal Coliforms per 100ml	MPN/100 ml	IS:1622:1981	Absent
8	E - Coli forms	MPN/100 ml	IS:1622:1981	Absent

  
Analyst

  
Authorized Signatory



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Certified by ISO 9001:2015 and  
ISO 45001:2018

## TEST REPORT

REF.NO: UEA/SEIL/R2/0624

Date: 25-06-2024

### WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEIL Energy India Ltd. (Project-2),**  
Ananthavaram (V),  
TP Gudur (M),  
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet  
Date of collection : 18-06-2024  
Date of Analysis : 18-06-2024

S No	Parameter	Units	Method	Result
1	pH @ 25.0°C	---	APHA 23 <sup>rd</sup> Edition,2017, 4500 H+ B	7.48
2	Total Dissolved Solids	mg/L	APHA 23 <sup>rd</sup> Edition,2017, 2540 C	589
3	Total Suspended Solids	mg/L	APHA 23 <sup>rd</sup> Edition,2017, 2540 D	21.2
4	Chemical Oxygen Demand	mg/L	APHA 23 <sup>rd</sup> Edition,2017: 5220 B	16.3
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, Reaffirmed 2014	<4.0
6	Oil & Grease	mg/L	APHA 23 <sup>rd</sup> Edition,2017: 5520 C	0.81
7	Fecal Coliforms per 100ml	MPN/ 100 ml	IS:1622:1981	Absent
8	E - Coli forms	MPN/ 100 ml	IS:1622:1981	Absent

*NOM*  
Analyst

*T. Priglewa*  
Authorized Signatory

# 178, Ramakrishna Nagar, Opp. IOCL, Chengicherla, Hyderabad - 500 039.

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

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ISO 45001 : 2018

## TEST REPORT

REF.NO: UEA/SEIL/R2/0724

Date: 30-07-2024

### WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEIL Energy India Ltd. (Project-2),**  
Ananthavaram (V),  
TP Gudur (M),  
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet  
Date of collection : 23-07-2024  
Date of Analysis : 23-07-2024

S No	Parameter	Units	Method	Result
1	pH @ 25.0°C	---	APHA 23 <sup>rd</sup> Edition,2017, 4500 H+ B	7.14
2	Total Dissolved Solids	mg/L	APHA 23 <sup>rd</sup> Edition,2017, 2540 C	529
3	Total Suspended Solids	mg/L	APHA 23 <sup>rd</sup> Edition,2017, 2540 D	19.9
4	Chemical Oxygen Demand	mg/L	APHA 23 <sup>rd</sup> Edition,2017: 5220 B	14.2
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, Reaffirmed 2014	<4.0
6	Oil & Grease	mg/L	APHA 23 <sup>rd</sup> Edition,2017: 5520 C	0.65
7	Fecal Coliforms per 100ml	MPN/100 ml	IS:1622:1981	Absent
8	E - Coli forms	MPN/100 ml	IS:1622:1981	Absent

  
Analyst

  
Authorized Signatory

# 178, Ramakrishna Nagar, Opp. IOCL, Chengicherla, Hyderabad - 500 039.

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

WTP, STP, ETP & ZLD (Supply, O&M) | POLLUTION TESTING & ANALYSIS | ENV. AUDIT | OTHER ENV. SERVICES

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## TEST REPORT

REF.NO: UEA/SEIL/R2/0824

Date: 02-09-2024

### WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEIL Energy India Ltd. (Project-2),**  
Ananthavaram (V),  
TP Gudur (M),  
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet  
Date of collection : 27-08-2024  
Date of Analysis : 27-08-2024

S No	Parameter	Units	Method	Result
1	pH @ 25.0°C	---	APHA 23 <sup>rd</sup> Edition,2017, 4500 H+ B	7.09
2	Total Dissolved Solids	mg/L	APHA 23 <sup>rd</sup> Edition,2017, 2540 C	514
3	Total Suspended Solids	mg/L	APHA 23 <sup>rd</sup> Edition,2017, 2540 D	17.4
4	Chemical Oxygen Demand	mg/L	APHA 23 <sup>rd</sup> Edition,2017: 5220 B	12.4
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, Reaffirmed 2014	<4.0
6	Oil & Grease	mg/L	APHA 23 <sup>rd</sup> Edition,2017: 5520 C	0.5
7	Fecal Coliforms per 100ml	MPN/100 ml	IS:1622:1981	Absent
8	E - Coli forms	MPN/100 ml	IS:1622:1981	Absent

  
Analyst

  
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ISO 45001:2018

REF.NO: UEA/SEIL/R2/0924

## TEST REPORT

Date: 08-10-2024

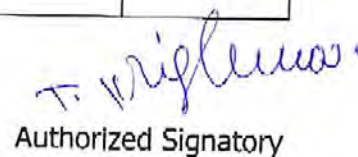
### WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEIL Energy India Ltd. (Project-2),  
Ananthavaram (V),  
TP Gudur (M),  
SPSR Nellore Dt., Andhra Pradesh.**

Sample Particulars : STP Outlet  
Date of collection : 24-09-2024  
Date of Analysis : 24-09-2024

S No	Parameter	Units	Method	Result
1	pH @ 25.0°C	---	APHA 23 <sup>rd</sup> Edition,2017, 4500 H+ B	7.05
2	Total Dissolved Solids	mg/L	APHA 23 <sup>rd</sup> Edition,2017, 2540 C	509
3	Total Suspended Solids	mg/L	APHA 23 <sup>rd</sup> Edition,2017, 2540 D	18.3
4	Chemical Oxygen Demand	mg/L	APHA 23 <sup>rd</sup> Edition,2017: 5220 B	13.2
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, Reaffirmed 2014	<4.0
6	Oil & Grease	mg/L	APHA 23 <sup>rd</sup> Edition,2017: 5520 C	0.8
7	Fecal Coliforms per 100ml	MPN/100 ml	IS:1622:1981	Absent
8	E - Coli forms	MPN/100 ml	IS:1622:1981	Absent

  
Analyst

  
Authorized Signatory

# 178, Ramakrishna Nagar, Opp. IOCL, Chengicherla, Hyderabad - 500 039.

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

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## TEST REPORT

ANNEXURE-V

ISSUED TO:

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

**Group: Atmospheric Pollution**

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

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

**Date of Monitoring: 09.05.2024**

**Sample Registration Date: 11.05.2024**

**Analysis Starting Date: 11.05.2024**

**Analysis Completed Date: 20.05.2024**

**Issue Date: 20.05.2024**

**Lab Ref: SEPL/ES/SEILEILP/05-24/0001**

## TEST RESULT

1. Time of Sampling ---- : 10:15 Hrs. to 11:10 Hrs.
2. Time Duration : 00:50 Hrs.
3. Ambient Temperature (°C) : 35.9
4. Flue gas Temperature (°C) : 147
5. Velocity of the flue gas (m/sec) : 24.58
6. C/s area of the duct (m<sup>3</sup>) : 44.17
7. Stack Diameter (m) : 7.5
8. Flue gas Flow Rate (Nm<sup>3</sup>/hr) : 3887843

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1.	Particulate Matter (PM)	IS 11255 (part-1)1985	mg/Nm <sup>3</sup>	< 50	40.6
2.	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (part-2)1985	mg/Nm <sup>3</sup>	-	879
3.	Oxides of Nitrogen (NO <sub>x</sub> )	IS 11255 (part-7)1985	mg/Nm <sup>3</sup>	350	241
4.	Carbon Monoxide (CO)	NSPS Test Method-10	ppm	-	1.7
5.	Mercury as Hg	State of California Air Resources Board, Method10A	mg/Nm <sup>3</sup>	0.03	< 0.01

### Instrument Details:

Instrument : Stack Monitoring Kit  
Make : Sree Scientific Equipment  
Model / SI No : Sem-150/220206  
Calibration Due : 28.02.2025

K.S.Laj  
Verified by



P. Suresh W.  
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-2**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Ananthavaram(V), Thotapalli Gudur (M),  
SPSR Nellore (Dist.) -524344.

**Group: Atmospheric Pollution**

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

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

**Date of Monitoring: 09.05.2024**

**Sample Registration Date: 11.05.2024**

**Analysis Starting Date: 11.05.2024**

**Analysis Completed Date: 20.05.2024**

**Issue Date: 20.05.2024**

**Lab Ref: SEPL/ES/SEILEILP/05-24/0002**

## TEST RESULT

1. Time of Sampling ---- : 11:25 Hrs. to 12:20 Hrs.
2. Time Duration : 00:55 Hrs.
3. Ambient Temperature (°C) : 35.1
4. Flue gas Temperature (°C) : 149
5. Velocity of the flue gas (m/sec) : 24.68
6. C/s area of the duct (m<sup>3</sup>) : 44.17
7. Stack Diameter (m) : 7.5
8. Flue gas Flow Rate (Nm<sup>3</sup>/hr) : 3873532

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1.	Particulate Matter (PM)	IS 11255 (part-1)1985	mg/Nm <sup>3</sup>	< 50	36.8
2.	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (part-2)1985	mg/Nm <sup>3</sup>	-	725
3.	Oxides of Nitrogen (NO <sub>x</sub> )	IS 11255 (part-7)1985	mg/Nm <sup>3</sup>	350	321
4.	Carbon Monoxide (CO)	NSPS Test Method-10	ppm	-	1.4
5.	Mercury as Hg	State of California Air Resources Board, Method10A	mg/Nm <sup>3</sup>	0.03	<0.01

### Instrument Details:

Instrument : Stack Monitoring Kit  
Make : Sree Scientific Equipment  
Model / SI No : Sem-150/220206  
Calibration Due : 28.02.2025

K.S.Laj  
Verified by



P. Suresh W.  
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Managing Director

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## TEST REPORT

ISSUED TO:

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

**Group: Atmospheric Pollution**

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

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

**Date of Monitoring: 22.08.2024**

**Sample Registration Date: 23.08.2024**

**Analysis Starting Date: 23.08.2024**

**Analysis Completed Date: 29.08.2024**

**Issue Date: 29.08.2024**

**Lab Ref: SEPL/ES/SEILEILP/08-24/0001**

## TEST RESULT

1. Time of Sampling ---- : 10:25 Hrs. to 11:15 Hrs.
2. Time Duration : 00:50 Hrs.
3. Ambient Temperature (°C) : 36.2
4. Flue gas Temperature (°C) : 148
5. Velocity of the flue gas (m/sec) : 24.88
6. C/s area of the duct (m<sup>3</sup>) : 44.17
7. Stack Diameter (m) : 7.5
8. Flue gas Flow Rate (Nm<sup>3</sup>/hr) : 3905334

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1.	Particulate Matter (PM)	IS 11255 (part-1)1985	mg/Nm <sup>3</sup>	< 50	38.4
2.	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (part-2)1985	mg/Nm <sup>3</sup>	-	745
3.	Oxides of Nitrogen (NO <sub>x</sub> )	IS 11255 (part-7)1985	mg/Nm <sup>3</sup>	350	326
4.	Carbon Monoxide (CO)	NSPS Test Method-10	ppm	-	1.3
5.	Mercury as Hg	State of California Air Resources Board, Method10A	mg/Nm <sup>3</sup>	0.03	< 0.01

### Instrument Details:

Instrument : Stack Monitoring Kit  
Make : Sree Scientific Equipment  
Model / SI No : Sem-150/220206  
Calibration Due : 28.02.2025

*K.S.Laj*  
Verified by



*Pavesh K.*  
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-2**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Ananthavaram (V), Thotapalli Gudur (M),  
SPSR Nellore (Dist.) -524344.

**Group: Atmospheric Pollution**

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

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

**Date of Monitoring: 22.08.2024**

**Sample Registration Date: 23.08.2024**

**Analysis Starting Date: 23.08.2024**

**Analysis Completed Date: 29.08.2024**

**Issue Date: 29.08.2024**

**Lab Ref: SEPL/ES/SEILEILP/08-24/0002**

## TEST RESULT

1. Time of Sampling ---- : 11:35 Hrs. to 12:30 Hrs.
2. Time Duration : 00:55 Hrs.
3. Ambient Temperature (°C) : 37.5
4. Flue gas Temperature (°C) : 148
5. Velocity of the flue gas (m/sec) : 24.65
6. C/s area of the duct (m<sup>3</sup>) : 44.17
7. Stack Diameter (m) : 7.5
8. Flue gas Flow Rate (Nm<sup>3</sup>/hr) : 3891023

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1.	Particulate Matter (PM)	IS 11255 (part-1)1985	mg/Nm <sup>3</sup>	< 50	40.2
2.	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (part-2)1985	mg/Nm <sup>3</sup>	-	782
3.	Oxides of Nitrogen (NO <sub>x</sub> )	IS 11255 (part-7)1985	mg/Nm <sup>3</sup>	350	275
4.	Carbon Monoxide (CO)	NSPS Test Method-10	ppm	-	1.6
5.	Mercury as Hg	State of California Air Resources Board, Method10A	mg/Nm <sup>3</sup>	0.03	<0.01

### Instrument Details:

Instrument : Stack Monitoring Kit  
Make : Sree Scientific Equipment  
Model / SI No : Sem-150/220206  
Calibration Due : 28.02.2025

K.S.Laj  
Verified by



P. Suresh W.  
Authorized by  
Managing Director

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

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## TEST REPORT

ANNEXURE-VI

ISSUED TO: <b>M/s. SEIL ENERGY INDIA LIMITED PROJECT-2</b> (2x660 MW Coal Based Thermal Power Plant), Near Ananthavaram (V), Thotapalli Gudur (M), SPSR Nellore (Dist.) -524344.	
<b>Discipline: Chemical</b> <b>Group: Water</b> <b>Product: Heavy Metal Analysis of Coal- MAY 2024</b> Sample Location: <b>Coal Feeder#1</b> Date of Monitoring: <b>09.05.2024</b> Sample Collected By: <b>Ganesh</b>	<b>Sample Registration Date: 11.05.2024</b> <b>Analysis Starting Date: 11.05.2024</b> <b>Analysis Completed Date: 20.05.2024</b> <b>Issue Date: 20.05.2024</b> <b>Lab Ref: SEPL/ES/SEILEILP/05-24/0001</b>

## TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	ppm	0.82	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	2.1	5.0
4	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	ppm	0.73	5.0

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

K.S.Laj  
Verified by



Praveesh W.  
Authorized by  
Managing Director

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

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

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## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-2**

(2x660 MW Coal Based Thermal Power Plant),  
Near Ananthavaram (V), Thotapalli Gudur (M),  
SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Water

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

Sample Location: Coal Feeder#1

Date of Monitoring: 22.08.2024

Sample Collected By: Ganesh

Sample Registration Date: 23.08.2024

Analysis Starting Date: 23.08.2024

Analysis Completed Date: 29.08.2024

Issue Date: 29.08.2024

Lab Ref: SEPL/ES/SEILEILP/08-24/0001

## TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	ppm	0.64	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	0.62	5.0

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

*K.S. Jay*  
Verified by



*Praveesh W.*  
Authorized by  
Managing Director

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

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## TEST REPORT

ANNEXURE-VII

ISSUED TO: <b>M/s. SEIL ENERGY INDIA LIMITED PROJECT-2</b> (2x660 MW Coal Based Thermal Power Plant), Near Ananthavaram (V), Thotapalli Gudur (M), SPSR Nellore (Dist.) -524344.	
Discipline: Chemical Group: Water Product: Heavy Metal Analysis of Fly Ash- MAY 2024 Date of Monitoring: 09.05.2024 Sample Collected By: Ganesh	Sample Registration Date: 11.05.2024 Analysis Starting Date: 11.05.2024 Analysis Completed Date: 20.05.2024 Issue Date: 20.05.2024 Lab Ref: SEPL/ES/SEILEILP/05-24/0001

## TEST RESULT

S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	Ppm	0.76	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	0.78	5.0
4	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	Ppm	0.42	5.0

Note: USEPA- United States Environmental Protection Agency

K.S.Laj  
Verified by



Praveesh W.  
Authorized by  
Managing Director

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

Web : [www.spectraenviro.com](http://www.spectraenviro.com) | E-mail: [sepl.sjn@gmail.com](mailto:sepl.sjn@gmail.com) | [info@spectraenviro.com](mailto:info@spectraenviro.com)

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







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## TEST REPORT

ISSUED TO: <b>M/s. SEIL ENERGY INDIA LIMITED PROJECT-2</b> (2x660 MW Coal Based Thermal Power Plant), Near Ananthavaram (V), Thotapalli Gudur (M), SPSR Nellore (Dist.) -524344.	
Discipline: Chemical Group: Water Product: Heavy Metal Analysis of Bottom Ash- MAY 2024 Date of Monitoring: 09.05.2024 Sample Collected By: Ganesh	Sample Registration Date: 11.05.2024 Analysis Starting Date: 11.05.2024 Analysis Completed Date: 20.05.2024 Issue Date: 20.05.2024 Lab Ref: SEPL/ES/SEILEILP/05-24/0002

## TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1.	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	Ppm	0.56	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	0.41	5.0
4.	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	ppm	0.69	5.0

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

K.S.Laj  
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Managing Director

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

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

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





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

## TEST REPORT

ISSUED TO: <b>M/s. SEIL ENERGY INDIA LIMITED PROJECT-2</b> (2x660 MW Coal Based Thermal Power Plant), Near Ananthavaram (V), Thotapalli Gudur (M), SPSR Nellore (Dist.) -524344.	
<b>Discipline: Chemical</b>  <b>Group: Water</b> <b>Product: Heavy Metal Analysis of Fly Ash- AUGUST 2024</b> <b>Date of Monitoring: 22.08.2024</b> <b>Sample Collected By: Ganesh</b>	<b>Sample Registration Date: 23.08.2024</b> <b>Analysis Starting Date: 23.08.2024</b> <b>Analysis Completed Date: 28.08.2024</b> <b>Issue Date: 28.08.2024</b> <b>Lab Ref: SEPL/ES/SEILEILP/08-24/0001</b>

## TEST RESULT

S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	Ppm	0.44	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	0.62	5.0
4	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	Ppm	0.70	5.0

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

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Verified by



*Praveesh W.*  
Authorized by  
Managing Director

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## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-2**

(2x660 MW Coal Based Thermal Power Plant),  
Near Ananthavaram (V), Thotapalli Gudur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline: Chemical**

**Group: Water**

**Product: Heavy Metal Analysis of Bottom Ash- AUGUST 2024**

**Date of Monitoring: 22.08.2024**

**Sample Collected By: Ganesh**

**Sample Registration Date: 23.08.2024**

**Analysis Starting Date: 23.08.2024**

**Analysis Completed Date: 28.08.2024**

**Issue Date: 28.08.2024**

**Lab Ref: SEPL/ES/SEILEILP/08-24/0002**

## TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1.	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	ppm	0.66	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	0.48	5.0
4.	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	ppm	0.65	5.0

**USEPA-** United States Environmental Protection Agency

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Authorized by  
Managing Director

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

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## TEST REPORT

ANNEXURE-VIII

### ISSUED TO:

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

Discipline: Chemical

Group: Wastewater

Sample Location: **Ash Pond Effluent Water**

Date of Monitoring: 09.05.2024

Sample Collected By: Ganesh

Sample Registration Date: 11.05.2024

Analysis Starting Date: 11.05.2024

Analysis Completed Date: 20.05.2024

Issue Date: 20.05.2024

Lab Ref: SEPL/ES/SEILEILP/05-24/0001

## TEST RESULT

S.NO	TEST PARAMETERS	UNIT	TEST METHOD	RESULT	STANDARD
1.	pH	---	IS:3025(Part-11)1983	7.5	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	64	100
5.	Chemical Oxygen Demand (COD)	mg/l	IS:3025(Part-58)-2006	85	250
6.	Biochemical Oxygen Demand (BOD) (3 days at 27 °C)	mg/l	IS:3025(Part-44)-1993	65	100
7.	Oil & Grease	mg/l	IS:3025(Part-39)-1991	2.1	10
8.	Total Arsenic as As	mg/l	IS:3025(Part-37)-1988	<0.01	0.2
9.	Mercury as Hg	mg/l	IS:3025(Part-48)-1994	<0.001	0.01
10.	Lead as Pb	mg/l	IS:3025(Part-47)-1994	<0.01	2.0
11.	Cadmium as Cd	mg/l	IS:3025(Part-41)-1992	<0.001	2.0
12.	Hexavalent Chromium as Cr <sup>6+</sup>	mg/l	IS:3025(Part-52)-2003	<0.001	1.0

IS-Indian Standard

K.S.Laj  
Verified by



P. Suresh W.  
Authorized by  
Managing Director

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

Web : [www.spectraenviro.com](http://www.spectraenviro.com) | E-mail: [sepl.sjn@gmail.com](mailto:sepl.sjn@gmail.com) | [info@spectraenviro.com](mailto:info@spectraenviro.com)

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





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## TEST REPORT

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(2x660 MW Coal Based Thermal Power Plant),  
Near Ananthavaram (V), Thotapalli Gudur (M),  
SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Wastewater

Sample Location: **Ash Pond Effluent Water**

Date of Monitoring: 22.08.2024

Sample Collected By: Ganesh

Sample Registration Date: 23.08.2024

Analysis Starting Date: 23.08.2024

Analysis Completed Date: 29.08.2024

Issue Date: 29.08.2024

Lab Ref: SEPL/ES/SEILEILP/08-24/0001

## 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	78	100
5.	Chemical Oxygen Demand (COD)	mg/l	IS:3025(Part-58)-2006	61	250
6.	Biochemical Oxygen Demand (BOD) (3 days at 27 °C)	mg/l	IS:3025(Part-44)-1993	54	100
7.	Oil & Grease	mg/l	IS:3025(Part-39)-1991	2.4	10
8.	Total Arsenic as As	mg/l	IS:3025(Part-37)-1988	<0.01	0.2
9.	Mercury as Hg	mg/l	IS:3025(Part-48)-1994	<0.001	0.01
10.	Lead as Pb	mg/l	IS:3025(Part-47)-1994	<0.01	2.0
11.	Cadmium as Cd	mg/l	IS:3025(Part-41)-1992	<0.001	2.0
12.	Hexavalent Chromium as Cr <sup>6+</sup>	mg/l	IS:3025(Part-52)-2003	<0.001	1.0

IS-Indian Standard

K.S.Laj  
Verified by



P. Praveesh W.  
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

ANNEXURE-IX

ISSUED TO: <b>M/s. SEIL ENERGY INDIA LIMITED PROJECT-2</b> (2x660 MW Coal Based Thermal Power Plant), Near Ananthavaram (V), Thotapalli Gudur (M), SPSR Nellore (Dist.) -524344.	
<b>Discipline: Chemical</b> <b>Group: Water</b> <b>Product Water</b> <b>Location-1: Piezo Well No-1- Water – North East Side (PW-1)</b> <b>Location-2: Piezo Well No-2- Water– South East Side (PW-2)</b> <b>Date of Monitoring: 09.05.2024</b>	<b>Sample Registration Date: 11.05.2024</b> <b>Analysis Starting Date: 11.05.2024</b> <b>Analysis Completed Date: 20.05.2024</b> <b>Issue Date: 20.05.2024</b> <b>Lab Ref: SEPL/ES/SEILEILP/05-24/0001</b> <b>Sample Collected By: Ganesh</b>

## 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	7.2	7.9	6.5- 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.1	1.2	1.0	5.0
3	Turbidity	NTU	IS3025(P-10)1984	0.4	0.5	1.0	5.0
4	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,201	1,189	--	--
5	Temperature	°C	--	39.7	36.1	--	--
6	Total Suspended Solids	mg/l	IS3025(P-17)1984	32	49	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	578	568	500	2000
8	Total Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	177	162	200	600
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	156	185	200	600
10	Calcium as Ca	mg/l	IS3025(P-40)1991	45.5	31.1	75	200
11	Magnesium as Mg	mg/l	IS3025(P-40)1991	23.1	22.4	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	166	185	--	--
15	Magnesium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	82	111	--	--
16	Sodium as Na	mg/l	IS3025(P-45)1993	157	136	--	--
17	Potassium as K	mg/l	IS3025(P-45)1993	19	26	--	--
18	Chloride as Cl	mg/l	IS3025(P-32)1988	182	198	250	1000

K.S.Laj  
Verified by



Praveesh W.  
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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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	63.6	85.2	200	400
20	Nitrates as NO <sub>3</sub>	mg/l	IS3025(P-34)1988	25.4	39.7	45	No Relaxation
21	Chemical Oxygen Demand	mg/l	IS3025(P-58)2006	<5.0	<5.0	--	--
22	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	IS3025(P-44)1993	<3.0	<3.0	--	--
23	Iron as Fe	mg/l	IS3025(P-53)2003	0.01	0.02	<0.3	No Relaxation
24	Fluoride as F	mg/l	IS3025(P-60)2008	0.52	0.71	<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	4.3	4.6	--	--
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	17.7	22.5	--	--
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.Laj  
Verified by



Praveesh W.  
Authorized by  
Managing Director

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Web : [www.spectraenviro.com](http://www.spectraenviro.com) | E-mail: [sepl.sjn@gmail.com](mailto:sepl.sjn@gmail.com) | [info@spectraenviro.com](mailto:info@spectraenviro.com)

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## TEST REPORT

ISSUED TO: <b>M/s. SEIL ENERGY INDIA LIMITED PROJECT-2</b> (2x660 MW Coal Based Thermal Power Plant), Near Ananthavaram (V), Thotapalli Gudur (M), SPSR Nellore (Dist.) -524344.	
<b>Discipline: Chemical</b> <b>Group: Water</b> <b>Product Water</b> <b>Location-3: Piezo Well No-3- Water – South West Side (PW-3)</b> <b>Location-4: Piezo Well No-4-Water– North West Side (PW-4)</b> <b>Date of Monitoring: 09.05.2024</b>	<b>Sample Registration Date: 11.05.2024</b> <b>Analysis Starting Date: 11.05.2024</b> <b>Analysis Completed Date: 20.05.2024</b> <b>Issue Date: 20.05.2024</b> <b>Lab Ref: SEPL/ES/SEILEILP/05-24/0002</b> <b>Sample Collected By: Ganesh</b>

## TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				PW-3	PW-4	ACCEPTABLE	PERMISSIBLE
1	pH	--	IS3025(P-11)2021	7.6	7.3	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	0.2	0.1	1.0	5.0
4	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,391	1,324	--	--
5	Temperature	°C	--	39.6	21.5	--	--
6	Total Suspended Solids	mg/l	IS3025(P-17)1984	56	47	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	269	372	500	2000
8	Total Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	268	242	200	600
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	142	163	200	600
10	Calcium as Ca	mg/l	IS3025(P-40)1991	59	62	75	200
11	Magnesium as Mg	mg/l	IS3025(P-40)1991	19	22	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	153	144	--	--
15	Magnesium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	126	116	--	--
16	Sodium as Na	mg/l	IS3025(P-45)1993	139	141	--	--
17	Potassium as K	mg/l	IS3025(P-45)1993	33	68	--	--
18	Chloride as Cl	mg/l	IS3025(P-32)1988	152	140	250	1000

K.S.Laj  
Verified by



Praveesh W.  
Authorized by  
Managing Director

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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	68.0	55.2	200	400
20	Nitrates as NO <sub>3</sub>	mg/l	IS3025(P-34)1988	36.1	45.4	45	No Relaxation
21	Chemical Oxygen Demand	mg/l	IS3025(P-58)2006	<5.0	<5.0	--	--
22	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	IS3025(P-44)1993	<3.0	<3.0	--	--
23	Iron as Fe	mg/l	IS3025(P-53)2003	0.33	0.41	<0.3	No Relaxation
24	Fluoride as F	mg/l	IS3025(P-60)2008	0.69	0.76	<1.0	<1.5
25	Copper as Cu	mg/l	IS3025(P-42)1992	<0.01	<0.01	<0.05	<1.5
26	Manganese as Mn	mg/l	IS3025(P-59)2006	<0.1	<0.1	<0.1	<0.3
27	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	mg/l	IS3025(P-43)1992	<0.001	<0.001	<0.001	<0.002
28	Cadmium as Cd	mg/l	IS3025(P-41)1992	<0.001	<0.001	<0.003	No Relaxation
29	Mercury as Hg	mg/l	IS3025(P-48)1994	<0.001	<0.001	<0.001	No Relaxation
30	Selenium as Se	mg/l	IS3025(P-56)2003	<0.01	<0.01	<0.01	No Relaxation
31	Total Arsenic as As	mg/l	IS3025(P-37)1988	<0.01	<0.01	<0.01	<0.20
32	Cyanide as CN	mg/l	IS3025(P-27)1986	<0.01	<0.01	<0.05	No Relaxation
33	Lead as Pb	mg/l	IS3025(P-47)1994	<0.01	<0.01	<0.01	No Relaxation
34	Zinc as Zn	mg/l	IS3025(P-49)1994	<0.01	<0.01	<5.0	<15
35	Total Chromium as Cr <sup>+6</sup>	mg/l	IS3025(P-52)2003	<0.01	<0.01	<0.05	<1.0
36	Aluminium as Al	mg/l	IS3025(P-55)2003	<0.01	<0.01	0.5	1.0
37	Pesticides	mg/l	As per STP	<0.01	<0.01	--	No Relaxation
38	Dissolved Oxygen	mg/l	IS3025(P-38)1989	4.5	4.2	--	--
39	Oil & Grease	mg/l	IS3025(P-39)2021	<1.0	<1.0	--	--
40	Phosphates as PO <sub>4</sub>	mg/l	IS3025(P-31)1998	<0.01	<0.01	--	--
41	Percent Sodium	%	IS3025(P-45)1993	32.1	39.3	--	--
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.Laj  
Verified by



Praveesh W.  
Authorized by  
Managing Director

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





# SPECTRA ENVIROTECH PVT LTD

Accredited by MoEF & Accredited by NABL (TC-13099)

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

## TEST REPORT

ISSUED TO: <b>M/s. SEIL ENERGY INDIA LIMITED PROJECT-2</b> (2x660 MW Coal Based Thermal Power Plant), Near Ananthavaram (V), Thotapalli Gudur (M), SPSR Nellore (Dist.) -524344.	
<b>Discipline: Chemical</b> <b>Group: Water</b> <b>Product Water</b> <b>Location-5: Piezo Well No-5- Water –Near CAAQMS (PW-5)</b> <b>Date of Monitoring: 09.05.2024</b>	<b>Sample Registration Date: 11.05.2024</b> <b>Analysis Starting Date: 11.05.2024</b> <b>Analysis Completed Date: 20.05.2024</b> <b>Issue Date: 20.05.2024</b> <b>Lab Ref: SEPL/ES/SEILEILP/05-24/0003</b> <b>Sample Collected By: Ganesh</b>

## TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	STANDARDS AS PER IS:10500		
				PW-5	ACCEPTABLE	PERMISSIBLE
1	pH	--	IS3025(P-11)2021	7.2	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	0.1	1.0	5.0
4	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,478	--	--
5	Temperature	°C	--	33.3	--	--
6	Total Suspended Solids	mg/l	IS3025(P-17)1984	63	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	569	500	2000
8	Total Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	248	200	600
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	247	200	600
10	Calcium as Ca	mg/l	IS3025(P-40)1991	56	75	200
11	Magnesium as Mg	mg/l	IS3025(P-40)1991	34	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	<0.1	0.5	1.0
14	Calcium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	166	--	--
15	Magnesium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	114	--	--
16	Sodium as Na	mg/l	IS3025(P-45)1993	142	--	--
17	Potassium as K	mg/l	IS3025(P-45)1993	85	--	--
18	Chloride as Cl	mg/l	IS3025(P-32)1988	195	250	1000

K.S.Laj  
Verified by



Praveesh W.  
Authorized by  
Managing Director

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

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





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S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS	STANDARDS AS PER IS:10500	
				PW-5	ACCEPTABLE	PERMISSIBLE
19	Sulphates as SO <sub>4</sub>	mg/l	IS3025(P-24)1986	45.6	200	400
20	Nitrates as NO <sub>3</sub>	mg/l	IS3025(P-34)1988	35.5	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	0.35	<0.3	No Relaxation
24	Fluoride as F	mg/l	IS3025(P-60)2008	0.42	<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	4.3	--	--
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	29.7	--	--
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	--	--

K.S.Laj  
Verified by



Praveesh W.  
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Managing Director

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Web : [www.spectraenviro.com](http://www.spectraenviro.com) | E-mail: [sepl.sjn@gmail.com](mailto:sepl.sjn@gmail.com) | [info@spectraenviro.com](mailto:info@spectraenviro.com)  
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## TEST REPORT

ISSUED TO: <b>M/S. SEIL ENERGY INDIA LIMITED PROJECT-2</b> (2x660 MW Coal Based Thermal Power Plant), Near Ananthavaram (V), Thotapalli Gudur (M), SPSR Nellore (Dist.) -524344.	
<b>Discipline: Chemical</b> <b>Group: Water</b> <b>Product: Water</b> <b>Location-1: Piezo Well No-1- Water – North East Side (PW-1)</b> <b>Location-2: Piezo Well No-2-Water– South East Side (PW-2)</b> <b>Date of Monitoring: 22.08.2024</b>	<b>Sample Registration Date: 23.08.2024</b> <b>Analysis Starting Date: 23.08.2024</b> <b>Analysis Completed Date: 29.08.2024</b> <b>Issue Date: 29.08.2024</b> <b>Lab Ref: SEPL/ES/SEILEILP/08-24/0001</b> <b>Sample Collected By: Ganesh</b>

## 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	7.6	7.4	6.5- 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.1	1.0	1.0	5.0
3	Turbidity	NTU	IS3025(P-10)1984	0.2	0.3	1.0	5.0
4	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,212	1,178	--	--
5	Temperature	°C	--	32.9	31.9	--	--
6	Total Suspended Solids	mg/l	IS3025(P-17)1984	36	42	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	562	498	500	2000
8	Total Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	174	164	200	600
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	132	168	200	600
10	Calcium as Ca	mg/l	IS3025(P-40)1991	49.3	36.8	75	200
11	Magnesium as Mg	mg/l	IS3025(P-40)1991	26.3	22.3	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	168	175	--	--
15	Magnesium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	89	96	--	--
16	Sodium as Na	mg/l	IS3025(P-45)1993	163	131	--	--
17	Potassium as K	mg/l	IS3025(P-45)1993	24	21	--	--
18	Chloride as Cl	mg/l	IS3025(P-32)1988	171	152	250	1000

K.S.Laj  
Verified by



Praveesh W.  
Authorized by  
Managing Director

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

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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	59.5	76.4	200	400
20	Nitrates as NO <sub>3</sub>	mg/l	IS3025(P-34)1988	28.4	35.8	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	0.02	0.03	<0.3	No Relaxation
24	Fluoride as F	mg/l	IS3025(P-60)2008	0.62	0.76	<1.0	<1.5
25	Copper as Cu	mg/l	IS3025(P-42)1992	<0.01	<0.01	<0.05	<1.5
26	Manganese as Mn	mg/l	IS3025(P-59)2006	<0.1	<0.1	<0.1	<0.3
27	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	mg/l	IS3025(P-43)1992	<0.001	<0.001	<0.001	<0.002
28	Cadmium as Cd	mg/l	IS3025(P-41)1992	<0.001	<0.001	<0.003	No Relaxation
29	Mercury as Hg	mg/l	IS3025(P-48)1994	<0.001	<0.001	<0.001	No Relaxation
30	Selenium as Se	mg/l	IS3025(P-56)2003	<0.01	<0.01	<0.01	No Relaxation
31	Total Arsenic as As	mg/l	IS3025(P-37)1988	<0.01	<0.01	<0.01	<0.20
32	Cyanide as CN	mg/l	IS3025(P-27)1986	<0.01	<0.01	<0.05	No Relaxation
33	Lead as Pb	mg/l	IS3025(P-47)1994	<0.01	<0.01	<0.01	No Relaxation
34	Zinc as Zn	mg/l	IS3025(P-49)1994	<0.01	<0.01	<5.0	<15
35	Total Chromium as Cr <sup>6+</sup>	mg/l	IS3025(P-52)2003	<0.01	<0.01	<0.05	<1.0
36	Aluminium as Al	mg/l	IS3025(P-55)2003	<0.01	<0.01	0.5	1.0
37	Pesticides	mg/l	As per STP	<0.01	<0.01	--	No Relaxation
38	Dissolved Oxygen	mg/l	IS3025(P-38)1989	4.7	4.3	--	--
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	19.6	24.8	--	--
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.Laj  
Verified by



P. Praveesh W.  
Authorized by  
Managing Director

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





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## TEST REPORT

ISSUED TO: <b>M/S. SEIL ENERGY INDIA LIMITED PROJECT-2</b> (2x660 MW Coal Based Thermal Power Plant), Near Ananthavaram (V), Thotapalli Gudur (M), SPSR Nellore (Dist.) -524344.	
<b>Discipline: Chemical</b> <b>Group: Water</b> <b>Product: Water</b> <b>Location-3: Piezo Well No-3- Water – South West Side (PW-3)</b> <b>Location-4: Piezo Well No-4-Water– North West Side (PW-4)</b> <b>Date of Monitoring: 22.08.2024</b>	<b>Sample Registration Date: 23.08.2024</b> <b>Analysis Starting Date: 23.08.2024</b> <b>Analysis Completed Date: 29.08.2024</b> <b>Issue Date: 29.08.2024</b> <b>Lab Ref: SEPL/ES/SEILEILP/08-24/0002</b> <b>Sample Collected By: Ganesh</b>

## TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				PW-3	PW-4	ACCEPTABLE	PERMISSIBLE
1	pH	--	IS3025(P-11)2021	7.4	7.2	6.5- 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.0	1.1	1.0	5.0
3	Turbidity	NTU	IS3025(P-10)1984	0.1	0.2	1.0	5.0
4	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,395	1,327	--	--
5	Temperature	°C	--	33.4	26.3	--	--
6	Total Suspended Solids	mg/l	IS3025(P-17)1984	57	42	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	224	176	500	2000
8	Total Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	255	247	200	600
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	167	152	200	600
10	Calcium as Ca	mg/l	IS3025(P-40)1991	52	68	75	200
11	Magnesium as Mg	mg/l	IS3025(P-40)1991	24	26	30	100
12	Free Residual Chlorine	mg/l	IS3025(P-26)1986	<0.1	<0.1	0.2	No Relaxation
13	Boron as B	mg/l	IS3025(P-57)2021	<0.1	<0.1	0.5	1.0
14	Calcium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	156	147	--	--
15	Magnesium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	122	118	--	--
16	Sodium as Na	mg/l	IS3025(P-45)1993	131	146	--	--
17	Potassium as K	mg/l	IS3025(P-45)1993	30	62	--	--
18	Chloride as Cl	mg/l	IS3025(P-32)1988	137	126	250	1000

K.S.Laj  
Verified by



P. Suresh W.  
Authorized by  
Managing Director

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**Web :** www.spectraenviro.com | **E-mail:** sepl.sjn@gmail.com | info@spectraenviro.com  
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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	45.6	42.7	200	400
20	Nitrates as NO <sub>3</sub>	mg/l	IS3025(P-34)1988	38.7	47.8	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	0.37	0.46	<0.3	No Relaxation
24	Fluoride as F	mg/l	IS3025(P-60)2008	0.65	0.71	<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	4.8	4.4	--	--
39	Oil & Grease	mg/l	IS3025(P-39)2021	<1.0	<1.0	--	--
40	Phosphates as PO <sub>4</sub>	mg/l	IS3025(P-31)1998	<0.01	<0.01	--	--
41	Percent Sodium	%	IS3025(P-45)1993	36.3	32.9	--	--
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	--	--

K.S.Laj  
Verified by



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Authorized by  
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<b>Discipline: Chemical</b> <b>Group: Water</b> <b>Product Water</b> <b>Location-5: Piezo Well No-5- Water – Near CAAQMS (PW-5)</b> <b>Date of Monitoring: 22.08.2024</b>	<b>Sample Registration Date: 23.08.2024</b> <b>Analysis Starting Date: 23.08.2024</b> <b>Analysis Completed Date: 29.08.2024</b> <b>Issue Date: 29.08.2024</b> <b>Lab Ref: SEPL/ES/SEILEILP/08-24/0003</b> <b>Sample Collected By: Ganesh</b>

## 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	7.4	6.5- 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.1	1.0	5.0
3	Turbidity	NTU	IS3025(P-10)1984	0.2	1.0	5.0
4	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,471	--	--
5	Temperature	°C	--	36.3	--	--
6	Total Suspended Solids	mg/l	IS3025(P-17)1984	68	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	574	500	2000
8	Total Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	262	200	600
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	231	200	600
10	Calcium as Ca	mg/l	IS3025(P-40)1991	51	75	200
11	Magnesium as Mg	mg/l	IS3025(P-40)1991	24	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	<0.1	0.5	1.0
14	Calcium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	153	--	--
15	Magnesium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	111	--	--
16	Sodium as Na	mg/l	IS3025(P-45)1993	147	--	--
17	Potassium as K	mg/l	IS3025(P-45)1993	80	--	--
18	Chloride as Cl	mg/l	IS3025(P-32)1988	191	250	1000

K.S.Laj  
Verified by



Praveesh W.  
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

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	42.6	200	400
20	Nitrates as NO <sub>3</sub>	mg/l	IS3025(P-34)1988	32.8	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	0.48	<0.3	No Relaxation
24	Fluoride as F	mg/l	IS3025(P-60)2008	0.44	<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	4.1	--	--
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	22.3	--	--
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	--	--

K.S.Laj  
Verified by



P. Praveesh W.  
Authorized by  
Managing Director

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





# 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.

A handwritten signature in blue ink, appearing to read 'Raghav Trivedi', is written over a faint, light blue circular stamp or watermark.

May 23rd, 2023

Raghav Trivedi  
Chief Executive Officer





भारत सरकार

Government of India

वाणि और उ ाग म ालय

Ministry of Commerce & Industry

पेटोलियम तथा वि ोटक सुर ा संगठन (पैसो)

Petroleum & Explosives Safety Organisation (PESO)

डोर न. ७-२०-१३, किरलामपुडी लेआउट

विशाखाप नम- 530017

Door No. 7-20-13,

Kirlampudi Layout,

Visakhapatnam - 530017

ANNEXURE-XII

E-mail : [dyccevizag@explosives.gov.in](mailto:dyccevizag@explosives.gov.in)

Phone/Fax No : 0891-2722257

सं. ा/No. : P/HQ/AP/15/4066 (P340586)

दिनांक /Dated : 01/01/2024

सेवा म.  
/To,

M/s. SEIL Energy India Limited Project-2,  
Ananthavaram Village, Varkavipudi Panchayat, TP G,  
Ananthavaram,  
Taluka: Thotapalligudur,  
District: NELLORE,  
State: Andhra Pradesh  
PIN: 524344

विषय /Sub : Survey No, 85, NA, Sivaramapuram, Thotapalligudur, Taluka: Thotapalligudur, District: NELLORE, State: Andhra Pradesh, PIN: 524344 म. ाथत वि ान पेटोलियम वर्ग B,C अधि ापन में अनुं सं P/HQ/AP/15/4066 (P340586) के नवीकरण के संदर्भ में । Existing Petroleum Class B,C Installation at Survey No, 85, NA, Sivaramapuram, Thotapalligudur, Taluka: Thotapalligudur, District: NELLORE, State: Andhra Pradesh, PIN: 524344 - Licence No. P/HQ/AP/15/4066 (P340586) - Renewal regarding.

महोदय  
/Sir(s),

कृपया आपके प ामांक OIN1554492 दिनांक 22/12/2023 का अवलोकन करें ।  
Please refer to your letter No.: OIN1554492, dated 22/12/2023

अनुं सं P/HQ/AP/15/4066 (P340586) दिनांक 11/11/2022 को दिनांक 31/12/2028 तक नवीनीकृत कर इस प के साथ अग्रषित की जा रही है ।

Licence No. P/HQ/AP/15/4066 (P340586) dated 11/11/2022 is forwarded herewith duly renewed upto 31/12/2028.

कृपया पेटोलियम नियम 2002 के अधीन बनाए गए नियम 148 में दी गई ाक्रिया का कडाई से पालन करें । अनुं के नवीकरण हेतु समं द ावेजों को अनुं की वैधता समा होने की तिथि से कम से कम 30 दिन पूर्व कार्यालय को ाषित करें ।

Please follow the procedure strictly as laid down in rule 148 of the Petroleum Rules, 2002 and submit complete documents for the Renewal of the licence so as to reach this office on or before the date on which Licence expires.

कृपया पावती दें।

Please acknowledge the receipt.

भवदीय /Yours faithfully,

((एस. के. भोले)

(S. K. Bhole)

वि ोटक नियं क

Controller of Explosives

कृते उप मु वि ोटक नियं क

For Dy. Chief Controller of Explosives

विशाखाप नम/Visakhapatnam

**Note:-This is system generated document does not require signature.**

(अधिक जानकारी जैसे आवेदन की ाथति, शुं तथा अ विवरण के लिए हमारी वेबसाइट : <http://peso.gov.in> देखें)

(For more information regarding status, fees and other details please visit our website: <http://peso.gov.in>)

प XV  
( प्रथम अनुसूची का अनुसूचि 6 दे.खए)  
FORM XV  
(see Article 6 of the First Schedule)

**अधिकापनों म.पेट्रोलियम के आयात और भंडारकरण के लिए अनुमति  
LICENCE TO IMPORT AND STORE PETROLEUM IN AN INSTALLATION**

अनुमति सं. (Licence No.): **P/HQ/AP/15/4066(P340586)**

फीस . पए (Fee Rs.) **77500/-** per year

**M/s. SEIL Energy India Limited Project-2, Ananthavaram Village, Varkavipudi Panchayat, TP G, Ananthavaram, Taluka: Thotapalligudur, District: NELLORE, State: Andhra Pradesh, PIN: 524344** को केवल इसमें यथा विनिर्दिष्ट वर्ग और मात्राओंमें पेट्रोलियम **6500.00 KL** आयात करने के लिए और उसका, नीचे वर्णित और अनुमोदित नक्शा सं. **P/HQ/AP/15/4066(P340586)** तारीख **01/12/2023** जो कि इससे उपाब हैं, में दिखाए गए स्थान पर भंडारकरण के लिए पेट्रोलियम अधिनियम, 1934 के उपबंधों या उसके अधीन बनाए गए नियमों तथा इस अनुमति की अतिरिक्त शर्त के अधीन रहते हुए, यह अनुमति अनुद की जाती हैं।

Licence is hereby granted to **M/s. SEIL Energy India Limited Project-2, Ananthavaram Village, Varkavipudi Panchayat, TP G, Ananthavaram, Taluka: Thotapalligudur, District: NELLORE, State: Andhra Pradesh, PIN: 524344** valid only for the importation and storage of **6500.00 KL** Petroleum of the class and quantities as herein specified and storage thereof in the place described below and shown on the approved plan No **P/HQ/AP/15/4066(P340586)** dated **01/12/2023** attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

यह अनुमति 31st day of December **2028** तक प्रवृत्त रहेगी।

The Licence shall remain in force till the 31st day of December **2028**

पेट्रोलियम का विवरण /Description of Petroleum	अनुमति मात्रा (किलोलीटरों में) /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	NIL
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	500.00 KL
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	6000.00 KL
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C, otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	6500.00 KL

**August 25, 2015**

For Chief Controller of Explosives  
HQ, Nagpur

- 1). Amendment dated - 28/12/2016
- 2). Amendment dated - 11/11/2022

**अनुमति परिसरों का विवरण और अवस्थान  
DESCRIPTION AND LOCATION OF THE LICENSED PREMISES**

अनुमति परिसर जिसकी विषयसीमाएं अतिरिक्त विषयों संलग्न अनुमोदित नक्शों में दिखाई गई हैं **Survey No: 85, NA, Sivaramapuram, Thotapalligudur, Taluka: Thotapalligudur, District: NELLORE, State: Andhra Pradesh, PIN: 524344** स्थान पर अवस्थित है तथा उसमें निम्न लिखित **As per approved drawing attached to the licence.** संलग्न लिखित हैं।

The licensed premises, the layout, boundaries and other particulars of which are shown in the attached approved plan are situated at **Survey No: 85, NA, Sivaramapuram, Thotapalligudur, Taluka: Thotapalligudur, District: NELLORE, State: Andhra Pradesh, PIN: 524344** and consists of **As per approved drawing attached to the licence.** together with connected facilities.

**Note:-This is system generated document does not require signature.**

अनु सं T-(Licence No.) P/HQ/AP/15/4066 (P340586)

**नवीनीकरण के पंक्तिन के लिए थान**  
**SPACE FOR ENDORSEMENT OF RENEWALS**

पेट्रोलियम अधिनियम, १९३४ के उपबन्धों या उनके अधीन बनाए गए नियमों या इस अनुच्छेद की शर्तों का उल्लंघन न होने की दशा में यह अनुच्छेद फ़िस में बिना किसी छूट के दस वर्ष तक नवीकृत की जा सकेगी।  
This licence shall be renewable without any concession in fee for ten years in the absence of contravention of any provisions of the Petroleum Act, 1934 or of the rules framed thereunder or of any of the conditions of this licence.

	नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry of license	अनुदानन अधिकारी के हस्ताक्षर और स्टा Signature and office stamp of the licencing authority.
1).	30/11/2015	31/12/2018	Sd/- Dr. R. K. Rathore Jt. Chief Controller of Explosives For Dy. Chief Controller of Explosives Visakhapatnam
2).	12/12/2018	31/12/2023	Sd/- J. Sarkar Dy. Chief Controller of Explosives Visakhapatnam
3).	01/01/2024	31/12/2028	S. K. Bhole Controller of Explosives For Dy. Chief Controller of Explosives Visakhapatnam

यदि अनुच्छेद परिसर इसमें उपाबद्ध विवरण और शर्तों के अनुरूप नहीं पाए जाते हैं और जिन नियमों और शर्तों के अधीन यह अनुच्छेद मंजूर की गई है उनमें से किसी का उल्लंघन होने की दशा में यह अनुच्छेद रद्द की जा सकती है और अनुच्छेद धारी प्रथम अपराध के लिए साधारण कारावास से, जो एक मास तक हो सकता है, या जुर्माने से, जो एक हजार रुपये तक हो सकता है, या दोनों से, और दोषक पा तवर्ती अपराध के लिए साधारण कारावास से जो तीन मास तक हो सकता है, या जुर्माने से, जो पांच हजार रुपये तक हो सकता है, या दोनों से, दंडनीय होगा।

This licence is liable to be cancelled if the licensed premises are not found conforming to the description given on the approved plan attached hereto and contravention of any of the rules and conditions under which this licence is granted and the holder of this licence is also punishable for the first offence with simple imprisonment which may be extend to one month, or with fine which may extend to one thousand rupees, or with both and for every subsequent offence with simple imprisonment which may extend to three months, or with fine which may extend to five thousand rupees or with both.

**Note:-This is system generated document does not require signature.**



# SPECTRA ENVIROTECH PVT LTD

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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-2**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Ananthavaram (V), Thotapalli Gudur (M),  
SPSR Nellore (Dist.)-524344.

**Group:** Atmospheric Pollution  
**Product:** Noise Monitoring (24 Hrs.)- May 2024  
**Sampling Location-1:** Main Gate

**Sample Registration Date:** 11.05.2024  
**Issue Date:** 20.05.2024  
**Lab Ref:** SEPL/ES/SEILEILP/05-24/0001

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	09.05.2024	00:00	42.5
2		01:00	39.6
3		02:00	35.8
4		03:00	33.2
5		04:00	36.8
6		05:00	41.4
7		06:00	59.3
8		07:00	42.5
9		08:00	38.7
10		09:00	52.4
11		10:00	55.1
12		11:00	57.6
13		12:00	53.8
14		13:00	54.1
15		14:00	51.5
16		15:00	50.9
17		16:00	48.8
18		17:00	52.7
19		18:00	47.0
20		19:00	55.4
21		20:00	44.7
22		21:00	46.6
23		22:00	43.3
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 : 11180097640  
Calibration Due : 28.02.2025

K.S.Laj  
Verified by



P. Suresh K.  
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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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

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

**Group:** Atmospheric Pollution  
**Product:** Noise Monitoring (24 Hrs.)- MAY 2024  
**Sampling Location-2:** BTG Area

**Sample Registration Date:** 11.05.2024  
**Issue Date:** 20.05.2024  
**Lab Ref:** SEPL/ES/SEILEILP/05-24/0002

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	09.05.2024	00:00	31.3
2		01:00	39.5
3		02:00	35.7
4		03:00	41.9
5		04:00	46.2
6		05:00	30.1
7		06:00	46.6
8		07:00	53.8
9		08:00	48.2
10		09:00	57.5
11		10:00	52.9
12		11:00	48.1
13		12:00	55.4
14		13:00	44.7
15		14:00	51.6
16		15:00	49.2
17		16:00	45.3
18		17:00	56.8
19		18:00	47.6
20		19:00	41.9
21		20:00	48.4
22		21:00	46.1
23		22:00	41.0
24		23:00	35.7

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

**Instrument Details:** Sound Level Meter

Make/Model : Standard/SC-05  
Serial No : 200525272  
Calibration Due : 28.02.2025

*K.S. Jay*  
Verified by



*Praveesh W.*  
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-2**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Ananthavaram (V), Thotapalli Gudur (M),  
SPSR Nellore (Dist.) -524344.

**Group:** Atmospheric Pollution  
**Product:** Noise Monitoring (24 Hrs.)- MAY 2024  
**Sampling Location-3:** Coal Handling Plant

**Sample Registration Date:** 11.05.2024  
**Issue Date:** 20.05.2024  
**Lab Ref:** SEPL/ES/SEILEILP/05-24/0003

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	09.05.2024	00:00	33.7
2		01:00	31.5
3		02:00	40.9
4		03:00	39.6
5		04:00	36.3
6		05:00	37.2
7		06:00	49.5
8		07:00	56.4
9		08:00	47.1
10		09:00	44.6
11		10:00	41.8
12		11:00	59.3
13		12:00	54.9
14		13:00	44.2
15		14:00	55.4
16		15:00	51.5
17		16:00	45.9
18		17:00	41.8
19		18:00	46.3
20		19:00	44.1
21		20:00	47.0
22		21:00	49.5
23		22:00	54.2
24		23:00	41.6

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

**Instrument Details:** Sound Level Meter

Make/Model : Lutron /SL-34001  
Serial No : Q6352440  
Calibration Due : 28.02.2025

*K.S. Jay*  
Verified by



*Praveesh W.*  
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-13099)

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

## TEST REPORT

ISSUED TO:

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

**Group:** Atmospheric Pollution  
**Product:** Noise Monitoring (24 Hrs.)- MAY 2024  
**Sampling Location-4:** Varakavipudi Village

**Sample Registration Date:** 11.05.2024  
**Issue Date:** 20.05.2024  
**Lab Ref:** SEPL/ES/SEILEILP/05-24/0004

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	09.05.2024	00:00	28.6
2		01:00	32.3
3		02:00	39.2
4		03:00	36.4
5		04:00	27.7
6		05:00	31.8
7		06:00	32.6
8		07:00	35.2
9		08:00	44.5
10		09:00	49.1
11		10:00	42.4
12		11:00	48.3
13		12:00	45.0
14		13:00	41.2
15		14:00	50.5
16		15:00	45.9
17		16:00	47.6
18		17:00	40.8
19		18:00	44.4
20		19:00	38.6
21		20:00	31.3
22		21:00	35.8
23		22:00	43.4
24		23:00	39.1

**CPCB Standards (Residential Area)**

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

**Instrument Details:** Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097641

Calibration Due : 28.02.2025

*K.S. Jay*  
Verified by



*Praveesh W.*  
Authorized by  
Managing Director

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

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

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

## TEST REPORT

ISSUED TO:

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

**Group:** Atmospheric Pollution  
**Product:** Noise Monitoring (24 Hrs.)- MAY 2024  
**Sampling Location-5:** Sivaramapuram Village

**Sample Registration Date:** 11.05.2024  
**Issue Date:** 20.05.2024  
**Lab Ref:** SEPL/ES/SEILEILP/05-24/0005

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	09.05.2024	00:00	31.6
2		01:00	36.2
3		02:00	33.7
4		03:00	35.3
5		04:00	29.8
6		05:00	34.0
7		06:00	42.5
8		07:00	46.3
9		08:00	35.1
10		09:00	31.7
11		10:00	44.9
12		11:00	48.6
13		12:00	42.5
14		13:00	39.4
15		14:00	35.8
16		15:00	44.2
17		16:00	46.6
18		17:00	49.7
19		18:00	42.3
20		19:00	40.8
21		20:00	36.5
22		21:00	38.6
23		22:00	33.0
24		23:00	29.1

**CPCB Standards (Residential Area)**

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

**Instrument Details:** Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097642

Calibration Due : 28.02.2025

K.S.Laj  
Verified by



P. Suresh W.  
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-2**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Ananthavaram (V), Thotapalli Gudur (M),  
SPSR Nellore (Dist.) -524344.

**Group:** Atmospheric Pollution  
**Product:** Noise Monitoring (24 Hrs.)- MAY 2024  
**Sampling Location-6:** Chandrasekharapuram Village

**Sample Registration Date:** 11.05.2024  
**Issue Date:** 20.05.2024  
**Lab Ref:** SEPL/ES/SEILEILP/05-24/0006

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (0)
1	09.05.2024	00:00	30.8
2		01:00	31.6
3		02:00	34.2
4		03:00	32.7
5		04:00	35.4
6		05:00	37.9
7		06:00	35.3
8		07:00	44.1
9		08:00	49.2
10		09:00	44.4
11		10:00	51.9
12		11:00	47.1
13		12:00	43.6
14		13:00	40.4
15		14:00	37.0
16		15:00	39.1
17		16:00	47.5
18		17:00	45.7
19		18:00	48.8
20		19:00	40.3
21		20:00	39.4
22		21:00	41.9
23		22:00	37.2
24		23:00	33.7

**CPCB Standards (Residential Area)**

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

**Instrument Details:** Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097643

Calibration Due : 28.02.2025

*K.S. Jay*  
Verified by



*Pavesh K.*  
Authorized by  
Managing Director

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

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

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## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-2**

(2x660 MW Coal Based Thermal Power Plant),  
Near Ananthavaram (V), Thotapalli Gudur (M),  
SPSR Nellore (Dist.) -524344.

**Group:** Atmospheric Pollution

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

**Date of Sampling:** 09-05-2024

**Sample Registration Date:** 11.05.2024

**Issue Date:** 20.05.2024

**Lab Ref:** SEPL/ES/SEILEILP/05-24/0007

## TEST RESULT

Particulars	Main Gate dB (A)	BTG Area dB (A)	Coal Handling Plant dB (A)	Varakavipudi Village dB (A)	Sivaramapuram Village dB (A)	Chandra sekharapuram Village dB (A)
	Day Time: (6 AM-10 PM) < 75 dB (A), Night Time: (10 PM-6 AM) < 70 dB (A)			Day Time: (6 AM-10 PM) < 55 dB (A), Night Time: (10 PM-6 AM) < 45 dB (A)		
Minimum	33.2	30.1	31.5	27.7	29.1	30.8
Maximum	59.3	57.5	59.3	50.5	49.7	51.9
Average	46.7	45.6	45.5	39.6	38.6	40.3

K.S.Laj  
Verified by



Praveesh W.  
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





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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-2**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Ananthavaram (V), Thotapalli Gudur (M),  
SPSR Nellore (Dist.)-524344.

**Group:** Atmospheric Pollution  
**Product:** Noise Monitoring (24 Hrs.)- AUGUST 2024  
**Sampling Location-1:** Main Gate

**Sample Registration Date:** 23.08.2024  
**Issue Date:** 29.08.2024  
**Lab Ref:** SEPL/ES/SEILEILP/08-24/0001

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	22.08.2024	00:00	42.9
2		01:00	38.2
3		02:00	31.4
4		03:00	32.7
5		04:00	34.6
6		05:00	40.5
7		06:00	57.5
8		07:00	44.1
9		08:00	31.9
10		09:00	52.6
11		10:00	48.4
12		11:00	55.2
13		12:00	56.7
14		13:00	53.8
15		14:00	47.2
16		15:00	51.4
17		16:00	45.1
18		17:00	57.9
19		18:00	44.4
20		19:00	59.3
21		20:00	41.4
22		21:00	49.6
23		22:00	42.5
24		23:00	35.9

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

**Instrument Details:** Sound Level Meter

Make/Model : Metravi/SL-3010  
Serial No : 11180097640  
Calibration Due : 28.02.2025

*K.S. Jay*  
Verified by



*Praveesh W.S.*  
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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Environmental, Micro Biology, Analytical Testings & RO, ETP, STP's Engineering

## TEST REPORT

ISSUED TO:

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

**Group:** Atmospheric Pollution  
**Product:** Noise Monitoring (24 Hrs.)- AUGUST 2024  
**Sampling Location-2:** BTG Area

**Sample Registration Date:** 23.08.2024  
**Issue Date:** 29.08.2024  
**Lab Ref:** SEPL/ES/SEILEILP/08-24/0002

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	22.08.2024	00:00	37.5
2		01:00	34.9
3		02:00	32.4
4		03:00	35.7
5		04:00	36.8
6		05:00	33.1
7		06:00	41.9
8		07:00	50.5
9		08:00	45.7
10		09:00	52.4
11		10:00	50.6
12		11:00	47.2
13		12:00	53.8
14		13:00	46.1
15		14:00	54.9
16		15:00	47.5
17		16:00	43.2
18		17:00	55.7
19		18:00	48.1
20		19:00	44.6
21		20:00	46.2
22		21:00	45.7
23		22:00	40.9
24		23:00	39.7

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

**Instrument Details:** Sound Level Meter

Make/Model : Standard/SC-05  
Serial No : 200525272  
Calibration Due : 28.02.2025

K.S.Laj  
Verified by



Praveesh W.  
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-2**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Ananthavaram (V), Thotapalli Gudur (M),  
SPSR Nellore (Dist.) -524344.

**Group:** Atmospheric Pollution  
**Product:** Noise Monitoring (24 Hrs.)- AUGUST 2024  
**Sampling Location-3:** Coal Handling Plant

**Sample Registration Date:** 23.08.2024  
**Issue Date:** 29.08.2024  
**Lab Ref:** SEPL/ES/SEILEILP/08-24/0003

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	22.08.2024	00:00	32.9
2		01:00	37.3
3		02:00	46.4
4		03:00	38.1
5		04:00	35.6
6		05:00	32.7
7		06:00	48.9
8		07:00	52.1
9		08:00	45.4
10		09:00	43.9
11		10:00	40.5
12		11:00	56.6
13		12:00	51.1
14		13:00	46.7
15		14:00	52.3
16		15:00	56.2
17		16:00	49.7
18		17:00	43.4
19		18:00	47.6
20		19:00	47.8
21		20:00	44.2
22		21:00	48.9
23		22:00	51.6
24		23:00	44.4

**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 : Lutron /SL-34001  
Serial No : Q6352440  
Calibration Due : 28.02.2025

*K.S.Laj*  
Verified by



*Praveesh W.S.*  
Authorized by  
Managing Director

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

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

## TEST REPORT

ISSUED TO:

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

**Group:** Atmospheric Pollution

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

**Sampling Location-4:** Varakavipudi Village

**Sample Registration Date:** 23.08.2024

**Issue Date:** 29.08.2024

**Lab Ref:** SEPL/ES/SEILEILP/08-24/0004

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	22.08.2024	00:00	28.4
2		01:00	34.9
3		02:00	35.4
4		03:00	32.1
5		04:00	29.5
6		05:00	30.6
7		06:00	38.4
8		07:00	32.6
9		08:00	42.5
10		09:00	47.2
11		10:00	40.3
12		11:00	45.7
13		12:00	49.2
14		13:00	44.4
15		14:00	52.7
16		15:00	48.3
17		16:00	46.1
18		17:00	43.5
19		18:00	41.2
20		19:00	39.4
21		20:00	32.2
22		21:00	34.5
23		22:00	40.6
24		23:00	35.6

**CPCB Standards (Residential Area)**

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

**Instrument Details:** Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097641

Calibration Due : 28.02.2025

*K.S.Laj*  
Verified by



*Praveesh W.*  
Authorized by  
Managing Director

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

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

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

## TEST REPORT

ISSUED TO:

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

**Group:** Atmospheric Pollution  
**Product:** Noise Monitoring (24 Hrs.)- AUGUST 2024  
**Sampling Location-5:** Sivaramapuram Village

**Sample Registration Date:** 23.08.2024  
**Issue Date:** 29.08.2024  
**Lab Ref:** SEPL/ES/SEILEILP/08-24/0005

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	22.08.2024	00:00	30.4
2		01:00	34.6
3		02:00	31.2
4		03:00	33.7
5		04:00	28.3
6		05:00	32.5
7		06:00	42.9
8		07:00	46.6
9		08:00	38.5
10		09:00	33.2
11		10:00	41.4
12		11:00	46.1
13		12:00	44.7
14		13:00	38.2
15		14:00	33.7
16		15:00	45.5
17		16:00	47.3
18		17:00	46.4
19		18:00	44.2
20		19:00	41.1
21		20:00	39.4
22		21:00	37.9
23		22:00	33.1
24		23:00	28.5

**CPCB Standards (Residential Area)**

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

**Instrument Details:** Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097642

Calibration Due : 28.02.2025

*K.S.Laj*  
Verified by



*Praveesh W.*  
Authorized by  
Managing Director

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

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

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

## TEST REPORT

ISSUED TO:

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

**Group:** Atmospheric Pollution

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

**Sampling Location-6:** Chandrasekharapuram Village

**Sample Registration Date:** 23.08.2024

**Issue Date:** 29.08.2024

**Lab Ref:** SEPL/ES/SEILEILP/08-24/0006

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (0)
1	22.08.2024	00:00	31.6
2		01:00	30.7
3		02:00	28.6
4		03:00	30.4
5		04:00	29.2
6		05:00	30.1
7		06:00	38.9
8		07:00	40.3
9		08:00	47.4
10		09:00	42.2
11		10:00	53.5
12		11:00	48.3
13		12:00	45.1
14		13:00	41.8
15		14:00	37.4
16		15:00	34.2
17		16:00	48.6
18		17:00	44.3
19		18:00	48.1
20		19:00	43.2
21		20:00	37.4
22		21:00	46.5
23		22:00	35.7
24		23:00	28.9

**CPCB Standards (Residential Area)**

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

**Instrument Details:** Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097643

Calibration Due : 28.02.2025

*K.S.Laj*  
Verified by



*Praveesh W.*  
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-13099)

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

## TEST REPORT

ISSUED TO: <b>M/s. SEIL ENERGY INDIA LIMITED PROJECT-2</b> (2x660 MW Coal Based Thermal Power Plant), Near Ananthavaram (V), Thotapalli Gudur (M), SPSR Nellore (Dist.) -524344.	
<b>Group:</b> Atmospheric Pollution <b>Product:</b> Noise Monitoring (24 Hrs.)- AUGUST 2024 <b>Date of Sampling:</b> 22-08-2024	<b>Sample Registration Date:</b> 23.08.2024 <b>Issue Date:</b> 29.08.2024 <b>Lab Ref:</b> SEPL/ES/SEILEILP/08-24/0007

## TEST RESULT

Particulars	Main Gate dB (A)	BTG Area dB (A)	Coal Handling Plant dB (A)	Varakavipudi Village dB (A)	Sivaramapuram Village dB (A)	Chandra sekharapuram 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	31.4	32.4	32.7	28.4	28.3	28.6
Maximum	59.3	55.7	56.6	52.7	47.3	53.5
Average	45.6	44.3	45.5	39.3	38.3	39.2

K.S.Laj  
Verified by



Praveesh W.  
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

ANNEXURE-XIV

ISSUED TO:

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – APRIL 2024

Location-1: Fire Station (Plant Site)

Sample Registration Date: 27.04.2024

Issue Date: 02.05.2024

Lab Ref: SEPL/ES/SEILEILP/04-24/0001

Sample collected person details: S. Ganesh

## TEST RESULTS

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
04.04.2024	43.9	38.5	11.3	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
05.04.2024	35.1	31.8	15.9	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.04.2024	22.5	18.3	10.2	9.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.04.2024	36.7	34.6	17.4	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.04.2024	29.2	25.5	12.6	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.04.2024	34.8	32.7	19.7	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.04.2024	28.1	24.8	13.1	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.04.2024	33.6	27.4	16.5	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	22.5	18.3	10.2	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	43.9	38.5	19.7	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	33.0	29.2	14.6	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	42.9	38.0	19.4	9.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

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

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : AAQ510 MFC / 220723  
Make : SSE (Shree Scientific Equipment)  
Calibration Due: 28.02.2025

K.S. Jay  
Verified by



DA  
Authorized by  
Managing Director

LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035  
Web : www.spectraenviro.com | E-mail: sepl.sjn@gmail.com | info@spectraenviro.com  
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-2**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Ananthavaram (V), Thotapalli Gudur (M),  
SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – APRIL 2024

Location-2: Sivaramapuram village

Sample Registration Date: 27.04.2024

Issue Date: 02.05.2024

Lab Ref: SEPL/ES/SEILEILP/04-24/0002

Sample collected person details: S. Ganesh

## TEST RESULTS

Date Of Sampling	µg/m <sup>3</sup>				mg/m <sup>3</sup>	µg/m <sup>3</sup>				ng/m <sup>3</sup>		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
04.04.2024	32.6	29.1	15.9	10.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
05.04.2024	29.9	25.5	12.2	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.04.2024	35.3	31.8	19.5	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.04.2024	43.4	38.6	10.8	9.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.04.2024	34.2	27.7	9.4	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.04.2024	27.8	23.4	13.7	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.04.2024	31.7	26.9	14.3	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.04.2024	28.1	24.3	18.1	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>27.8</b>	<b>23.4</b>	<b>9.4</b>	<b>7.9</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Max</b>	<b>43.4</b>	<b>38.6</b>	<b>19.5</b>	<b>10.3</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Avg.</b>	<b>32.9</b>	<b>28.4</b>	<b>14.2</b>	<b>8.7</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>98 Percentile</b>	<b>42.3</b>	<b>37.6</b>	<b>19.3</b>	<b>10.1</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	2.0

### Instruments Details:

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

### Instruments Details:

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

K.S. Jay  
Verified by



DA  
Authorized by  
Managing Director

**LABORATORY** : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035  
**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-2**  
(2x660 MW Coal Based Thermal Power Plant),  
Near Ananthavaram (V), Thotapalli Gudur (M),  
SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – APRIL 2024

Location-3: Chandrasekharapuram Village

Sample Registration Date: 27.04.2024

Issue Date: 02.05.2024

Lab Ref: SEPL/ES/SEILEILP/04-24/0003

Sample collected person details: S. Ganesh

## TEST RESULTS

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
04.04.2024	25.4	21.1	9.2	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
05.04.2024	38.9	34.8	8.6	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.04.2024	31.2	28.5	7.4	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.04.2024	26.5	24.6	9.3	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.04.2024	39.7	36.4	8.1	9.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.04.2024	27.3	23.7	9.5	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.04.2024	33.1	27.9	8.8	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.04.2024	32.6	29.3	9.7	9.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>25.4</b>	<b>21.1</b>	<b>7.4</b>	<b>8.4</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Max</b>	<b>39.7</b>	<b>36.4</b>	<b>9.7</b>	<b>9.7</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Avg.</b>	<b>31.8</b>	<b>28.3</b>	<b>8.8</b>	<b>8.9</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>98 Percentile</b>	<b>39.6</b>	<b>36.2</b>	<b>9.7</b>	<b>9.6</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 / 220830  
Make : SSE (Shree Scientific Equipment)  
Calibration Due: 28.02.2025

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : AAQ510 MFC / 220723  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2025

K.S.Laj  
Verified by



DA  
Authorized by  
Managing Director

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

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: <b>M/s. SEIL ENERGY INDIA LIMITED PROJECT-2</b> (2x660 MW Coal Based Thermal Power Plant), Near Ananthavaram (V), Thotapalli Gudur (M), SPSR Nellore (Dist.) -524344.	
Discipline: Chemical	Sample Registration Date: 27.04.2024
Group: Atmospheric Pollution	Issue Date: 02.05.2024
Product: Ambient Air Quality Monitoring – APRIL 2024	Lab Ref: SEPL/ES/SEILEILP/04-24/0004
Location-4: Varakavipudi Village	Sample collected person details: S. Ganesh

## TEST RESULTS

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
04.04.2024	38.2	35.5	9.6	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
05.04.2024	35.6	28.9	8.2	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.04.2024	22.5	18.3	7.7	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.04.2024	36.7	27.4	8.5	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.04.2024	27.3	24.7	8.9	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.04.2024	29.8	19.8	9.4	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.04.2024	34.4	26.6	8.8	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.04.2024	23.1	17.2	9.1	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	22.5	17.2	7.7	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	38.2	35.5	9.6	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	31.0	24.8	8.8	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	38.0	34.6	9.6	9.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

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

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : AAQ510 MFC / 220723  
Make : SSE (Shree Scientific Equipment)  
Calibration Due: 28.02.2025

K.S. Iyengar  
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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## SUMMARY OF AMBIENT AIR QUALITY –APRIL 2024

Pollutants	Description	Unit	Fire Station (Plant)-1	Sivaramapuram Village-2	Chandra sekharapuram Village-3	Varakavipudi Village-4
PM <sub>10</sub>	Minimum	µg/m <sup>3</sup>	22.5	27.8	25.4	22.5
	Maximum		43.9	43.4	39.7	38.2
	Average		32.9	32.9	31.8	31.0
	98 Percentile		42.9	42.3	39.6	38.0
PM <sub>2.5</sub>	Minimum		18.3	23.4	21.1	17.2
	Maximum		38.5	38.6	36.4	35.5
	Average		29.2	28.4	28.3	24.8
	98 Percentile		38.0	37.6	36.2	34.6
SO <sub>2</sub>	Minimum		10.2	9.4	7.4	7.7
	Maximum		19.7	19.5	9.7	9.6
	Average		14.6	14.2	8.8	8.8
	98 Percentile		19.4	19.3	9.7	9.6
NO <sub>x</sub>	Minimum		7.5	7.9	8.4	7.3
	Maximum		9.9	10.3	9.7	9.2
	Average		8.7	8.7	8.9	8.4
	98 Percentile		9.8	10.1	9.6	9.1

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](http://www.spectraenviro.com) | E-mail: [sepl.sjn@gmail.com](mailto:sepl.sjn@gmail.com) | [info@spectraenviro.com](mailto:info@spectraenviro.com)  
Cell: 80199 55222, 111 | BRANCHES: VIJAYAWADA | HYDERABAD





# SPECTRA ENVIROTECH PVT LTD

Accredited by MoEF & Accredited by NABL (TC-13099)

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

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-2**

(2x660 MW Coal Based Thermal Power Plant),  
Near Ananthavaram (V), Thotapalli Gudur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline:** Chemical

**Group:** Atmospheric Pollution

**Product:** Ambient Air Quality Monitoring – MAY 2024

**Location-1:** Fire Station (Plant Site)

**Sample Registration Date:** 01.06.2024

**Issue Date:** 07.06.2024

**Lab Ref:** SEPL/ES/SEILEILP/05-24/0001

**Sample collected person details:** S. Ganesh

## TEST RESULTS

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
02.05.2024	41.9	36.4	17.5	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
03.05.2024	28.5	25.8	11.3	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.05.2024	32.1	29.2	14.9	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
10.05.2024	39.6	37.6	18.6	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.05.2024	25.4	21.9	15.4	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
17.05.2024	33.8	28.3	10.2	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.05.2024	26.2	23.1	16.7	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
24.05.2024	37.7	37.5	13.8	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
30.05.2024	39.3	34.7	19.2	10.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
31.05.2024	31.4	29.3	12.1	9.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>25.4</b>	<b>21.9</b>	<b>10.2</b>	<b>7.6</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Max</b>	<b>41.9</b>	<b>37.6</b>	<b>19.2</b>	<b>10.1</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Avg.</b>	<b>33.6</b>	<b>30.4</b>	<b>15.0</b>	<b>9.0</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>98 Percentile</b>	<b>41.5</b>	<b>37.6</b>	<b>19.1</b>	<b>10.1</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

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

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : AAQ510 MFC / 220723  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2025

K.S.Laj  
Verified by



P. Praveesh W.  
Authorized by  
Managing Director

Form No : F-7.8-02

Issue No & Date 01& 20.06.2019

Amend. No & Dt.: 00 & 00

**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-13099)

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

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-2**

(2x660 MW Coal Based Thermal Power Plant),  
Near Ananthavaram (V), Thotapalli Gudur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline:** Chemical

**Group:** Atmospheric Pollution

**Product:** Ambient Air Quality Monitoring – MAY 2024

**Location-2:** Sivaramapuram village

**Sample Registration Date:** 01.06.2024

**Issue Date:** 07.06.2024

**Lab Ref:** SEPL/ES/SEILEILP/05-24/0002

**Sample collected person details:** S. Ganesh

## TEST RESULTS

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
02.05.2024	35.1	31.8	17.2	9.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
03.05.2024	42.6	37.6	12.6	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.05.2024	33.9	28.1	15.9	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
10.05.2024	41.3	39.4	11.3	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.05.2024	37.2	34.5	9.8	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
17.05.2024	29.5	25.9	16.4	8.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.05.2024	36.4	33.2	10.1	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
24.05.2024	28.8	26.7	19.7	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
30.05.2024	34.7	32.5	18.5	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
31.05.2024	40.3	38.4	13.5	9.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>28.8</b>	<b>25.9</b>	<b>9.8</b>	<b>7.1</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Max</b>	<b>42.6</b>	<b>39.4</b>	<b>19.7</b>	<b>9.8</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Avg.</b>	<b>36.0</b>	<b>32.8</b>	<b>14.5</b>	<b>8.6</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>98 Percentile</b>	<b>42.4</b>	<b>39.2</b>	<b>19.5</b>	<b>9.7</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	2.0

### Instruments Details:

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

### Instruments Detail:

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

K.S.Laj  
Verified by



Praveesh W.  
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-13099)

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

## TEST REPORT

ISSUED TO:

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

**Discipline:** Chemical

**Group:** Atmospheric Pollution

**Product:** Ambient Air Quality Monitoring – MAY 2024

**Location-3:** Chandrasekharapuram Village

**Sample Registration Date:** 01.06.2024

**Issue Date:** 07.06.2024

**Lab Ref:** SEPL/ES/SEILEILP/05-24/0003

**Sample collected person details:** S. Ganesh

## TEST RESULTS

Date Of Sampling	µg/m <sup>3</sup>				mg/m <sup>3</sup>	µg/m <sup>3</sup>				ng/m <sup>3</sup>		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
02.05.2024	29.3	27.9	9.8	8.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
03.05.2024	35.5	31.4	8.3	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.05.2024	24.4	22.7	7.6	9.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
10.05.2024	28.3	24.6	9.1	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.05.2024	37.6	36.2	8.7	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
17.05.2024	26.8	23.5	9.2	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.05.2024	36.4	28.1	8.5	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
24.05.2024	38.7	35.2	7.9	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
30.05.2024	32.1	29.8	10.4	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
31.05.2024	25.9	19.3	9.5	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>24.4</b>	<b>19.3</b>	<b>7.6</b>	<b>7.2</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Max</b>	<b>38.7</b>	<b>36.2</b>	<b>10.4</b>	<b>9.8</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Avg.</b>	<b>31.5</b>	<b>27.9</b>	<b>8.9</b>	<b>8.6</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>98 Percentile</b>	<b>38.5</b>	<b>36.0</b>	<b>10.3</b>	<b>9.7</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

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

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : AAQ510 MFC / 220723  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2025

K.S.Laj  
Verified by



Praveesh W.  
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-13099)

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

## TEST REPORT

### ISSUED TO:

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

**Discipline:** Chemical

**Group:** Atmospheric Pollution

**Product:** Ambient Air Quality Monitoring – MAY 2024

**Location-4:** Varakavipudi Village

**Sample Registration Date:** 01.06.2024

**Issue Date:** 07.06.2024

**Lab Ref:** SEPL/ES/SEILEILP/05-24/0004

**Sample collected person details:** S. Ganesh

## TEST RESULTS

Date Of Sampling	µg/m <sup>3</sup>				mg/m <sup>3</sup>	µg/m <sup>3</sup>				ng/m <sup>3</sup>		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
02.05.2024	35.7	37.4	9.1	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
03.05.2024	39.2	35.6	7.5	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.05.2024	28.6	26.9	7.9	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
10.05.2024	33.3	29.2	8.3	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.05.2024	24.5	18.7	8.6	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
17.05.2024	27.9	24.1	7.2	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.05.2024	36.4	32.8	8.7	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
24.05.2024	25.8	22.3	9.4	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
30.05.2024	33.1	30.9	10.4	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
31.05.2024	21.2	21.5	9.8	9.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>21.2</b>	<b>18.7</b>	<b>7.2</b>	<b>7.1</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Max</b>	<b>39.2</b>	<b>37.4</b>	<b>10.4</b>	<b>9.5</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Avg.</b>	<b>30.6</b>	<b>27.9</b>	<b>8.6</b>	<b>8.4</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>98 Percentile</b>	<b>38.7</b>	<b>37.1</b>	<b>10.2</b>	<b>9.5</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 : AAQ510 / 220830  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2025

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : AAQ510 MFC / 220723  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2025

K.S.Laj  
Verified by



P. Praveesh W.  
Authorized by  
Managing Director

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

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

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# SPECTRA ENVIROTECH PVT LTD

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

## SUMMARY OF AMBIENT AIR QUALITY –MAY 2024

Pollutants	Description	Unit	Fire Station (Plant)-1	Sivaramapuram Village-2	Chandra sekharapuram Village-3	Varakavipudi Village-4
PM <sub>10</sub>	Minimum	μg/m <sup>3</sup>	25.4	28.8	24.4	21.2
	Maximum		41.9	42.6	38.7	39.2
	Average		33.6	36.0	31.5	30.6
	98 Percentile		41.5	42.4	38.5	38.7
PM <sub>2.5</sub>	Minimum		21.9	25.9	19.3	18.7
	Maximum		37.6	39.4	36.2	37.4
	Average		30.4	32.8	27.9	27.9
	98 Percentile		37.6	39.2	36.0	37.1
SO <sub>2</sub>	Minimum		10.2	9.8	7.6	7.2
	Maximum		19.2	19.7	10.4	10.4
	Average		15.0	14.5	8.9	8.6
	98 Percentile		19.1	19.5	10.3	10.2
NO <sub>x</sub>	Minimum		7.6	7.1	7.2	7.1
	Maximum		10.1	9.8	9.8	9.5
	Average		9.0	8.6	8.6	8.4
	98 Percentile		10.1	9.7	9.7	9.5

K.S.Laj  
Verified by



Praveesh W.  
Authorized by  
Managing Director

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

Web : [www.spectraenviro.com](http://www.spectraenviro.com) | E-mail: [sepl.sjn@gmail.com](mailto:sepl.sjn@gmail.com) | [info@spectraenviro.com](mailto:info@spectraenviro.com)

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# SPECTRA ENVIROTECH PVT LTD

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

## TEST REPORT

ISSUED TO:

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

**Discipline:** Chemical

**Group:** Atmospheric Pollution

**Product:** Ambient Air Quality Monitoring – JUNE 2024

**Location-1:** Fire Station (Plant Site)

**Sample Registration Date:** 01.07.2024

**Issue Date:** 08.07.2024

**Lab Ref:** SEPL/ES/SEILEILP/06-24/0001

**Sample collected person details:** S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
06.06.2024	39.2	22.6	11.3	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
07.06.2024	41.9	24.4	13.5	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.06.2024	46.5	21.1	15.7	9.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.06.2024	38.1	25.7	12.2	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.06.2024	45.7	23.9	13.4	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.06.2024	47.6	22.5	10.9	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.06.2024	36.3	24.8	14.6	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.06.2024	44.4	21.2	12.1	9.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>36.3</b>	<b>21.1</b>	<b>10.9</b>	<b>7.2</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Max</b>	<b>47.6</b>	<b>25.7</b>	<b>15.7</b>	<b>9.7</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Avg.</b>	<b>42.5</b>	<b>23.3</b>	<b>13.0</b>	<b>8.6</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>98 Percentile</b>	39.2	22.6	11.3	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

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

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : AAQ510 MFC / 220723  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2025

K.S.Laj  
Verified by



Praveesh W.  
Authorized by  
Managing Director

Form No : F-7.8-02

Issue No & Date 01& 20.06.2019

Amend. No & Dt.: 00 & 00

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

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

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# SPECTRA ENVIROTECH PVT LTD

Accredited by MoEF & Accredited by NABL (TC-13099)

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

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-2**

(2x660 MW Coal Based Thermal Power Plant),  
Near Ananthavaram (V), Thotapalli Gudur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline:** Chemical

**Group:** Atmospheric Pollution

**Product:** Ambient Air Quality Monitoring – JUNE 2024

**Location-2:** Sivaramapuram village

**Sample Registration Date:** 01.07.2024

**Issue Date:** 08.07.2024

**Lab Ref:** SEPL/ES/SEILEILP/06-24/0002

**Sample collected person details:** S. Ganesh

## TEST RESULT

Date Of Sampling	µg/m <sup>3</sup>				mg/m <sup>3</sup>	µg/m <sup>3</sup>				ng/m <sup>3</sup>		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
06.06.2024	43.5	21.4	12.2	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
07.06.2024	39.2	24.7	14.5	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.06.2024	36.7	20.2	11.4	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.06.2024	48.4	23.6	15.7	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.06.2024	35.1	22.8	13.9	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.06.2024	44.3	23.5	10.3	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.06.2024	42.6	24.3	13.8	9.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.06.2024	37.8	25.9	11.1	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>35.1</b>	<b>20.2</b>	<b>10.3</b>	<b>8.1</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Max</b>	<b>48.4</b>	<b>25.9</b>	<b>15.7</b>	<b>9.6</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Avg.</b>	<b>41.0</b>	<b>23.3</b>	<b>12.9</b>	<b>8.8</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>98 Percentile</b>	<b>47.8</b>	<b>25.7</b>	<b>15.5</b>	<b>9.6</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	2.0

### Instruments Details:

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

### Instruments Detail:

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

K.S.Laj  
Verified by



Praveesh W.  
Authorized by  
Managing Director

Form No : F-7.8-02

Issue No & Date 01& 20.06.2019

Amend. No & Dt.: 00 & 00

**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-13099)

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

## TEST REPORT

ISSUED TO:

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

**Discipline:** Chemical

**Group:** Atmospheric Pollution

**Product:** Ambient Air Quality Monitoring – JUNE 2024

**Location-3:** Chandrasekharapuram Village

**Sample Registration Date:** 01.07.2024

**Issue Date:** 08.07.2024

**Lab Ref:** SEPL/ES/SEILEILP/06-24/0003

**Sample collected person details:** S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
06.06.2024	36.8	24.6	13.3	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
07.06.2024	44.2	20.2	15.6	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.06.2024	41.6	25.9	11.1	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.06.2024	38.7	23.5	14.5	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.06.2024	47.5	23.3	13.8	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.06.2024	45.1	21.7	12.7	9.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.06.2024	42.9	22.1	15.4	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.06.2024	39.4	21.5	13.4	9.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>36.8</b>	<b>20.2</b>	<b>11.1</b>	<b>7.5</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Max</b>	<b>47.5</b>	<b>25.9</b>	<b>15.6</b>	<b>9.7</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Avg.</b>	<b>42.0</b>	<b>23.0</b>	<b>13.7</b>	<b>8.6</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>98 Percentile</b>	<b>47.2</b>	<b>25.7</b>	<b>15.6</b>	<b>9.7</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	2.0

### Instruments Details:

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

### Instruments Detail:

Instrument : Respirable Dust sampler  
Model/SI NO : AAQ510 MFC / 220723  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2025

K.S.Laj  
Verified by



Praveesh W.  
Authorized by  
Managing Director

Form No : F-7.8-02

Issue No & Date 01& 20.06.2019

Amend. No & Dt.: 00 & 00

**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-13099)

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

## TEST REPORT

ISSUED TO:

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

**Discipline:** Chemical

**Group:** Atmospheric Pollution

**Product:** Ambient Air Quality Monitoring – JUNE 2024

**Location-4:** Varakavipudi Village

**Sample Registration Date:** 01.07.2024

**Issue Date:** 08.07.2024

**Lab Ref:** SEPL/ES/SEILEILP/06-24/0004

**Sample collected person details:** S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
06.06.2024	48.4	24.2	12.6	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
07.06.2024	46.6	22.8	14.5	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.06.2024	39.3	20.9	12.4	9.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.06.2024	42.5	23.5	13.7	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.06.2024	44.7	21.4	15.3	8.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.06.2024	35.8	23.7	11.2	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.06.2024	39.2	25.6	14.8	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.06.2024	43.1	21.3	13.9	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>35.8</b>	<b>20.9</b>	<b>11.2</b>	<b>7.3</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Max</b>	<b>48.4</b>	<b>25.6</b>	<b>15.3</b>	<b>9.7</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Avg.</b>	<b>42.5</b>	<b>22.9</b>	<b>13.6</b>	<b>8.5</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>98 Percentile</b>	<b>48.1</b>	<b>25.4</b>	<b>15.2</b>	<b>9.6</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	2.0

### Instruments Details:

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

### Instruments Detail:

Instrument : Respirable Dust sampler  
Model/SI NO : AAQ510 MFC / 220723  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2025

K.S. Jay  
Verified by



Praveesh W.  
Authorized by  
Managing Director

Form No : F-7.8-02

Issue No & Date 01& 20.06.2019

Amend. No & Dt.: 00 & 00

**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

## SUMMARY OF AMBIENT AIR QUALITY –JUNE 2024

Pollutants	Description	Unit	Fire Station (Plant)-1	Sivaramapuram Village-2	Chandra sekharapuram Village-3	Varakavipudi Village-4
PM <sub>10</sub>	Minimum	µg/m <sup>3</sup>	36.3	35.1	36.8	35.8
	Maximum		47.6	48.4	47.5	48.4
	Average		42.4	41.0	42.0	42.5
	98 Percentile		47.4	47.8	47.2	48.1
PM <sub>2.5</sub>	Minimum		21.1	20.2	20.2	20.9
	Maximum		25.7	25.9	25.9	25.6
	Average		23.3	23.3	23.0	22.9
	98 Percentile		25.6	25.7	25.7	25.4
SO <sub>2</sub>	Minimum		10.9	10.3	11.1	11.2
	Maximum		15.7	15.7	15.6	15.3
	Average		13.0	12.9	13.7	13.6
	98 Percentile		15.5	15.5	15.6	15.2
NO <sub>x</sub>	Minimum		7.2	8.1	7.5	7.3
	Maximum		9.7	9.6	9.7	9.7
	Average		8.6	8.8	8.6	8.5
	98 Percentile		9.7	9.6	9.7	9.6

K.S.Laj  
Verified by



Praveesh W.  
Authorized by  
Managing Director

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

Accredited by MoEF & Accredited by NABL (TC-13099)

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

## TEST REPORT

ISSUED TO: <b>M/s. SEIL ENERGY INDIA LIMITED PROJECT-2</b> (2x660 MW Coal Based Thermal Power Plant), Near Ananthavaram (V), Thotapalli Gudur (M), SPSR Nellore (Dist.) -524344.	
<b>Discipline:</b> Chemical <b>Group:</b> Atmospheric Pollution <b>Product:</b> Ambient Air Quality Monitoring – JULY 2024 <b>Location-1:</b> Fire Station (Plant Site)	<b>Sample Registration Date:</b> 27.07.2024 <b>Issue Date:</b> 31.07.2024 <b>Lab Ref:</b> SEPL/ES/SEILEILP/07-24/0001 <b>Sample collected person details:</b> S. Ganesh

## TEST RESULT

Date Of Sampling	µg/m <sup>3</sup>				mg/m <sup>3</sup>	µg/m <sup>3</sup>				ng/m <sup>3</sup>		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
04.07.2024	49.5	23.9	12.5	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
05.07.2024	45.2	24.3	14.2	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.07.2024	35.1	22.2	13.3	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.07.2024	37.3	24.5	10.1	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.07.2024	48.9	23.1	12.6	7.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.07.2024	42.1	21.4	13.7	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.07.2024	44.6	23.6	14.8	8.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.07.2024	36.2	22.8	11.4	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>35.1</b>	<b>21.4</b>	<b>10.1</b>	<b>7.3</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Max</b>	<b>49.5</b>	<b>24.5</b>	<b>14.8</b>	<b>9.2</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Avg.</b>	<b>42.4</b>	<b>23.2</b>	<b>12.8</b>	<b>8.4</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>98 Percentile</b>	<b>49.4</b>	<b>24.5</b>	<b>14.7</b>	<b>9.2</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 / 220830  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2025

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : AAQ510 MFC / 220723  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2025

K.S. Jay  
Verified by



P. Suresh W.  
Authorized by  
Managing Director

Form No : F-7.8-02

Issue No & Date 01& 20.06.2019

Amend. No & Dt.: 00 & 00

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

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

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# SPECTRA ENVIROTECH PVT LTD

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

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-2**

(2x660 MW Coal Based Thermal Power Plant),

Near Ananthavaram (V), Thotapalli Gudur (M),

SPSR Nellore (Dist.) -524344.

**Discipline:** Chemical

**Group:** Atmospheric Pollution

**Product:** Ambient Air Quality Monitoring – JULY 2024

**Location-2:** Sivaramapuram village

**Sample Registration Date:** 27.07.2024

**Issue Date:** 31.07.2024

**Lab Ref:** SEPL/ES/SEILEILP/07-24/0002

**Sample collected person details:** S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
04.07.2024	41.2	20.5	12.2	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
05.07.2024	38.4	24.7	14.5	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.07.2024	31.3	25.2	11.4	9.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.07.2024	45.7	21.6	15.7	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.07.2024	36.3	25.8	13.9	8.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.07.2024	42.1	23.5	10.3	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.07.2024	48.8	22.3	13.8	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.07.2024	35.6	25.9	11.1	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>31.3</b>	<b>20.5</b>	<b>10.3</b>	<b>8.1</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Max</b>	<b>48.8</b>	<b>25.9</b>	<b>15.7</b>	<b>9.6</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Avg.</b>	<b>39.9</b>	<b>23.7</b>	<b>12.9</b>	<b>8.8</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>98 Percentile</b>	<b>48.4</b>	<b>25.9</b>	<b>15.5</b>	<b>9.6</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	2.0

### Instruments Details:

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

### Instruments Detail:

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

K.S. Jay  
Verified by



Praveesh W.  
Authorized by  
Managing Director

Form No : F-7.8-02

Issue No & Date 01& 20.06.2019

Amend. No & Dt.: 00 & 00

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

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# SPECTRA ENVIROTECH PVT LTD

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

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-2**

(2x660 MW Coal Based Thermal Power Plant),

Near Ananthavaram (V), Thotapalli Gudur (M),

SPSR Nellore (Dist.) -524344.

**Discipline:** Chemical

**Group:** Atmospheric Pollution

**Product:** Ambient Air Quality Monitoring – JULY 2024

**Location-3:** Chandrasekharapuram Village

**Sample Registration Date:** 27.07.2024

**Issue Date:** 31.07.2024

**Lab Ref:** SEPL/ES/SEILEILP/07-24/0003

**Sample collected person details:** S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
04.07.2024	45.1	21.9	18.6	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
05.07.2024	36.5	23.4	15.4	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.07.2024	46.8	22.2	11.7	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.07.2024	39.7	20.6	14.5	7.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.07.2024	44.2	24.1	13.3	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.07.2024	47.4	21.7	12.2	9.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.07.2024	41.1	23.3	15.8	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.07.2024	38.6	24.5	16.3	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>36.5</b>	<b>20.6</b>	<b>11.7</b>	<b>7.5</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Max</b>	<b>47.4</b>	<b>24.5</b>	<b>18.6</b>	<b>9.7</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Avg.</b>	<b>42.4</b>	<b>22.7</b>	<b>14.7</b>	<b>8.5</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>98 Percentile</b>	<b>47.3</b>	<b>24.4</b>	<b>18.3</b>	<b>9.6</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	2.0

### Instruments Details:

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

### Instruments Detail:

Instrument : Respirable Dust sampler  
Model/SI NO : AAQ510 MFC / 220723  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2025

K.S. Jay  
Verified by



Praveesh W.  
Authorized by  
Managing Director

Form No : F-7.8-02

Issue No & Date 01& 20.06.2019

Amend. No & Dt.: 00 & 00

**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-13099)

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

## TEST REPORT

ISSUED TO:

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

**Discipline:** Chemical

**Group:** Atmospheric Pollution

**Product:** Ambient Air Quality Monitoring – JULY 2024

**Location-4:** Varakavipudi Village

**Sample Registration Date:** 27.07.2024

**Issue Date:** 31.07.2024

**Lab Ref:** SEPL/ES/SEILEILP/07-24/0004

**Sample collected person details:** S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
04.07.2024	44.6	23.2	10.9	8.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
05.07.2024	41.2	21.9	11.2	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.07.2024	35.4	23.4	13.7	9.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.07.2024	47.5	24.5	17.4	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.07.2024	40.8	22.1	14.5	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.07.2024	39.3	25.8	13.8	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.07.2024	44.1	20.3	11.3	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.07.2024	45.7	23.6	15.1	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>35.4</b>	<b>20.3</b>	<b>10.9</b>	<b>7.6</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Max</b>	<b>47.5</b>	<b>25.8</b>	<b>17.4</b>	<b>9.3</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Avg.</b>	<b>42.3</b>	<b>23.1</b>	<b>13.5</b>	<b>8.8</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>98 Percentile</b>	<b>47.2</b>	<b>25.6</b>	<b>17.1</b>	<b>9.3</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	2.0

### Instruments Details:

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

### Instruments Detail:

Instrument : Respirable Dust sampler  
Model/SI NO : AAQ510 MFC / 220723  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2025

K.S. Jay  
Verified by



Praveesh W.  
Authorized by  
Managing Director

Form No : F-7.8-02

Issue No & Date 01& 20.06.2019

Amend. No & Dt.: 00 & 00

**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-13099)

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

## SUMMARY OF AMBIENT AIR QUALITY –JULY 2024

Pollutants	Description	Unit	Fire Station (Plant)-1	Sivaramapuram Village-2	Chandra sekharapuram Village-3	Varakavipudi Village-4
PM <sub>10</sub>	Minimum	μg/m <sup>3</sup>	35.1	31.3	36.5	35.4
	Maximum		49.5	48.8	47.4	47.5
	Average		42.3	39.9	42.4	42.3
	98 Percentile		49.4	48.4	47.3	47.2
PM <sub>2.5</sub>	Minimum		21.4	20.5	20.6	20.3
	Maximum		24.5	25.9	24.5	25.8
	Average		23.2	23.7	22.7	23.1
	98 Percentile		24.5	25.9	24.4	25.6
SO <sub>2</sub>	Minimum		10.1	10.3	11.7	10.9
	Maximum		14.8	15.7	18.6	17.4
	Average		12.8	12.9	14.7	13.5
	98 Percentile		14.7	15.5	18.3	17.1
NO <sub>x</sub>	Minimum		7.3	8.1	7.5	7.6
	Maximum		9.2	9.6	9.7	9.3
	Average		8.4	8.8	8.5	8.8
	98 Percentile		9.2	9.6	9.6	9.3

K.S.Laj  
Verified by



Praveesh W.  
Authorized by  
Managing Director

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

Web : [www.spectraenviro.com](http://www.spectraenviro.com) | E-mail: [sepl.sjn@gmail.com](mailto:sepl.sjn@gmail.com) | [info@spectraenviro.com](mailto:info@spectraenviro.com)

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# SPECTRA ENVIROTECH PVT LTD

Accredited by MoEF & Accredited by NABL (TC-13099)

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

## TEST REPORT

ISSUED TO:

**M/S. SEIL ENERGY INDIA LIMITED PROJECT-2**

(2x660 MW Coal Based Thermal Power Plant),  
Near Ananthavaram (V), Thotapalli Gudur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline:** Chemical

**Group:** Atmospheric Pollution

**Product:** Ambient Air Quality Monitoring – AUGUST 2024

**Location-1:** Fire Station (Plant Site)

**Sample Registration Date:** 02.09.2024

**Issue Date:** 09.09.2024

**Lab Ref:** SEPL/ES/SEILEILP/08-24/0001

**Sample collected person details:** S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
01.08.2024	43.6	22.3	12.3	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
02.08.2024	38.5	23.1	10.4	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.08.2024	31.2	20.1	13.6	9.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.08.2024	35.3	22.6	15.7	8.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.08.2024	37.4	23.7	12.8	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.08.2024	30.2	21.7	13.6	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.08.2024	46.8	24.5	15.7	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.08.2024	35.7	20.9	14.7	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.08.2024	37.3	21.7	12.3	9.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
30.08.2024	43.6	25.7	11.7	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>30.2</b>	<b>20.1</b>	<b>10.4</b>	<b>7.3</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Max</b>	<b>46.8</b>	<b>25.7</b>	<b>15.7</b>	<b>9.7</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Avg.</b>	<b>38.0</b>	<b>22.6</b>	<b>13.3</b>	<b>8.8</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>98 Percentile</b>	<b>46.2</b>	<b>25.5</b>	<b>15.7</b>	<b>9.7</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

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

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : AAQ510 MFC / 220723  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2025

K.S. Iyengar  
Verified by



P. Praveesh W.  
Authorized by  
Managing Director

Form No : F-7.8-02

Issue No & Date 01& 20.06.2019

Amend. No & Dt.: 00 & 00

**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-13099)

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

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-2**

(2x660 MW Coal Based Thermal Power Plant),  
Near Ananthavaram (V), Thotapalli Gudur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline:** Chemical

**Group:** Atmospheric Pollution

**Product:** Ambient Air Quality Monitoring – AUGUST 2024

**Location-2:** Sivaramapuram village

**Sample Registration Date:** 02.09.2024

**Issue Date:** 09.09.2024

**Lab Ref:** SEPL/ES/SEILEILP/08-24/0002

**Sample collected person details:** S. Ganesh

## TEST RESULT

Date Of Sampling	µg/m <sup>3</sup>				mg/m <sup>3</sup>	µg/m <sup>3</sup>				ng/m <sup>3</sup>		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
01.08.2024	39.5	22.4	15.9	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
02.08.2024	42.7	20.3	11.4	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.08.2024	49.8	24.5	14.5	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.08.2024	45.7	23.6	13.6	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.08.2024	38.2	20.5	12.7	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.08.2024	36.1	21.2	13.6	9.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.08.2024	39.8	24.7	11.2	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.08.2024	48.7	22.6	15.7	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.08.2024	37.4	21.7	13.1	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
30.08.2024	43.6	23.4	14.5	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>36.1</b>	<b>20.3</b>	<b>11.2</b>	<b>7.2</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Max</b>	<b>49.8</b>	<b>24.7</b>	<b>15.9</b>	<b>9.9</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Avg.</b>	<b>42.2</b>	<b>22.5</b>	<b>13.6</b>	<b>8.5</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>98 Percentile</b>	<b>49.6</b>	<b>24.7</b>	<b>15.9</b>	<b>9.8</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	2.0

### Instruments Details:

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

### Instruments Details:

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

K.S.Laj  
Verified by



P. Praveesh W.  
Authorized by  
Managing Director

Form No : F-7.8-02

Issue No & Date 01& 20.06.2019

Amend. No & Dt.: 00 & 00

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

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

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# SPECTRA ENVIROTECH PVT LTD

Accredited by MoEF & Accredited by NABL (TC-13099)

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

## TEST REPORT

ISSUED TO:

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

**Discipline:** Chemical

**Group:** Atmospheric Pollution

**Product:** Ambient Air Quality Monitoring – AUGUST 2024

**Location-3:** Chandrasekharapuram Village

**Sample Registration Date:** 02.09.2024

**Issue Date:** 09.09.2024

**Lab Ref:** SEPL/ES/SEILEILP/08-24/0003

**Sample collected person details:** S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
01.08.2024	39.8	23.6	15.2	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
02.08.2024	36.3	25.4	11.4	7.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.08.2024	41.7	20.2	14.6	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.08.2024	45.7	23.7	11.7	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.08.2024	39.6	21.5	13.7	8.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.08.2024	40.2	24.8	10.8	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.08.2024	37.5	20.3	12.4	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.08.2024	44.3	22.4	14.7	9.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.08.2024	48.7	23.2	13.6	7.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
30.08.2024	41.2	24.7	11.7	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>36.3</b>	<b>20.2</b>	<b>10.8</b>	<b>7.7</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Max</b>	<b>48.7</b>	<b>25.4</b>	<b>15.2</b>	<b>9.3</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Avg.</b>	<b>41.5</b>	<b>23.0</b>	<b>13.0</b>	<b>8.5</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>98 Percentile</b>	<b>48.2</b>	<b>25.3</b>	<b>15.1</b>	<b>9.3</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	2.0

### Instruments Details:

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

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : AAQ510 MFC / 220723  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2025

*K.S. Jay*  
Verified by



*Praveesh M.*  
Authorized by  
Managing Director

Form No : F-7.8-02

Issue No & Date 01& 20.06.2019

Amend. No & Dt.: 00 & 00

**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-13099)

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

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-2**

(2x660 MW Coal Based Thermal Power Plant),

Near Ananthavaram (V), Thotapalli Gudur (M),

SPSR Nellore (Dist.) -524344.

**Discipline:** Chemical

**Group:** Atmospheric Pollution

**Product:** Ambient Air Quality Monitoring – AUGUST 2024

**Location-4:** Varakavipudi Village

**Sample Registration Date:** 02.09.2024

**Issue Date:** 09.09.2024

**Lab Ref:** SEPL/ES/SEILEILP/08-24/0004

**Sample collected person details:** S. Ganesh

## TEST RESULT

Date Of Sampling	µg/m <sup>3</sup>				mg/m <sup>3</sup>	µg/m <sup>3</sup>				ng/m <sup>3</sup>		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
01.08.2024	39.4	21.2	12.4	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
02.08.2024	45.7	23.2	14.3	9.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.08.2024	52.3	21.7	11.5	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.08.2024	47.1	25.6	13.9	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.08.2024	55.3	22.7	12.7	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.08.2024	48.9	24.6	15.1	7.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.08.2024	41.7	20.8	12.7	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.08.2024	46.3	22.7	11.2	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.08.2024	40.2	25.1	10.9	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
30.08.2024	48.8	24.9	14.6	9.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>39.4</b>	<b>20.8</b>	<b>10.9</b>	<b>7.5</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Max</b>	<b>55.3</b>	<b>25.6</b>	<b>15.1</b>	<b>9.4</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Avg.</b>	<b>46.6</b>	<b>23.3</b>	<b>12.9</b>	<b>8.4</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>98 Percentile</b>	<b>54.8</b>	<b>25.5</b>	<b>15.0</b>	<b>9.3</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	2.0

### Instruments Details:

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

### Instruments Detail:

Instrument : Respirable Dust sampler  
Model/SI NO : AAQ510 MFC / 220723  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2025

K.S.Laj  
Verified by



Praveesh W.  
Authorized by  
Managing Director

Form No : F-7.8-02

Issue No & Date 01& 20.06.2019

Amend. No & Dt.: 00 & 00

**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-13099)

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

## SUMMARY OF AMBIENT AIR QUALITY –AUGUST 2024

Pollutants	Description	Unit	Fire Station (Plant)-1	Sivaramapuram Village-2	Chandra sekharapuram Village-3	Varakavipudi Village-4
PM <sub>10</sub>	Minimum	μg/m <sup>3</sup>	30.2	36.1	36.3	39.4
	Maximum		46.8	49.8	48.7	55.3
	Average		38.0	42.2	41.5	46.6
	98 Percentile		46.2	49.6	48.2	54.8
PM <sub>2.5</sub>	Minimum		20.1	20.3	20.2	20.8
	Maximum		25.7	24.7	25.4	25.6
	Average		22.6	22.5	23.0	23.3
	98 Percentile		25.5	24.7	25.3	25.5
SO <sub>2</sub>	Minimum		10.4	11.2	10.8	10.9
	Maximum		15.7	15.9	15.2	15.1
	Average		13.3	13.6	13.0	12.9
	98 Percentile		15.7	15.9	15.1	15.0
NO <sub>x</sub>	Minimum		7.3	7.2	7.7	7.5
	Maximum		9.7	9.9	9.3	9.4
	Average		8.8	8.5	8.5	8.4
	98 Percentile		9.7	9.8	9.3	9.3

K.S.Laj  
Verified by



Praveesh W.  
Authorized by  
Managing Director

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

Web : [www.spectraenviro.com](http://www.spectraenviro.com) | E-mail: [sepl.sjn@gmail.com](mailto:sepl.sjn@gmail.com) | [info@spectraenviro.com](mailto:info@spectraenviro.com)

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# SPECTRA ENVIROTECH PVT LTD

Accredited by MoEF & Accredited by NABL (TC-13099)

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

## TEST REPORT

ISSUED TO:

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

**Discipline:** Chemical

**Group:** Atmospheric Pollution

**Product:** Ambient Air Quality Monitoring – SEPTEMBER 2024

**Location-1:** Fire Station (Plant Site)

**Sample Registration Date:** 28.09.2024

**Issue Date:** 05.09.2024

**Lab Ref:** SEPL/ES/SEILEILP/09-24/0001

**Sample collected person details:** S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
05.09.2024	49.6	23.6	15.6	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
06.09.2024	36.5	25.9	13.8	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.09.2024	42.8	24.2	12.7	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.09.2024	46.2	20.1	14.9	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.09.2024	38.1	24.8	13.2	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.09.2024	45.7	22.3	14.1	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.09.2024	41.3	23.5	15.4	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.09.2024	37.4	21.7	13.5	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>36.5</b>	<b>20.1</b>	<b>12.7</b>	<b>7.9</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Max</b>	<b>49.6</b>	<b>25.9</b>	<b>15.6</b>	<b>9.9</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Avg.</b>	<b>42.2</b>	<b>23.3</b>	<b>14.2</b>	<b>8.8</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>98 Percentile</b>	<b>49.1</b>	<b>25.7</b>	<b>15.6</b>	<b>9.8</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

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

### Instruments Details:

Instrument : Respirable Dust sampler  
Model/SI NO : AAQ510 MFC / 220723  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2025

K.S.Laj  
Verified by



P. Praveesh W.  
Authorized by  
Managing Director

Form No : F-7.8-02

Issue No & Date 01& 20.06.2019

Amend. No & Dt.: 00 & 00

**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-13099)

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

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-2**

(2x660 MW Coal Based Thermal Power Plant),  
Near Ananthavaram (V), Thotapalli Gudur (M),  
SPSR Nellore (Dist.) -524344.

**Discipline:** Chemical

**Group:** Atmospheric Pollution

**Product:** Ambient Air Quality Monitoring – SEPTEMBER 2024

**Location-2:** Sivaramapuram village

**Sample Registration Date:** 28.09.2024

**Issue Date:** 05.09.2024

**Lab Ref:** SEPL/ES/SEILEILP/09-24/0002

**Sample collected person details:** S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
05.09.2024	44.2	22.5	11.9	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
06.09.2024	47.6	23.6	13.4	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.09.2024	39.4	22.7	15.8	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.09.2024	37.1	24.2	12.9	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.09.2024	46.3	21.4	14.6	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.09.2024	48.8	23.8	12.3	9.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.09.2024	41.5	22.1	13.1	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.09.2024	38.7	23.3	14.7	7.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>37.1</b>	<b>21.4</b>	<b>11.9</b>	<b>7.2</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Max</b>	<b>48.8</b>	<b>24.2</b>	<b>15.8</b>	<b>9.4</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Avg.</b>	<b>43.0</b>	<b>23.0</b>	<b>13.6</b>	<b>8.3</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>98 Percentile</b>	<b>48.6</b>	<b>24.1</b>	<b>15.6</b>	<b>9.4</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	2.0

### Instruments Details:

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

### Instruments Detail:

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

K.S. Jay  
Verified by



Praveesh W.  
Authorized by  
Managing Director

Form No : F-7.8-02

Issue No & Date 01& 20.06.2019

Amend. No & Dt.: 00 & 00

**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-13099)

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

## TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-2  
(2x660 MW Coal Based Thermal Power Plant),  
Near Ananthavaram (V), Thotapalli Gudur (M),  
SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – SEPTEMBER 2024

Location-3: Chandrasekharapuram Village

Sample Registration Date: 28.09.2024

Issue Date: 05.09.2024

Lab Ref: SEPL/ES/SEILEILP/09-24/0003

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	µg/m <sup>3</sup>				mg/m <sup>3</sup>	µg/m <sup>3</sup>				ng/m <sup>3</sup>		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
05.09.2024	46.5	25.3	13.1	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
06.09.2024	41.6	21.9	10.7	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.09.2024	40.9	23.4	12.5	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.09.2024	44.1	21.7	14.7	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.09.2024	42.2	24.6	11.6	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.09.2024	43.4	23.8	12.8	9.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.09.2024	38.3	23.1	13.2	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.09.2024	45.7	25.5	15.4	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>38.3</b>	<b>21.7</b>	<b>10.7</b>	<b>7.4</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Max</b>	<b>46.5</b>	<b>25.5</b>	<b>15.4</b>	<b>9.7</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Avg.</b>	<b>42.8</b>	<b>23.7</b>	<b>13.0</b>	<b>8.5</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>98 Percentile</b>	<b>46.4</b>	<b>25.5</b>	<b>15.3</b>	<b>9.7</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	2.0

### Instruments Details:

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

### Instruments Detail:

Instrument : Respirable Dust sampler  
Model/SI NO : AAQ510 MFC / 220723  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2025

K.S. Jay  
Verified by



P. Suresh K.  
Authorized by  
Managing Director

Form No : F-7.8-02

Issue No & Date 01& 20.06.2019

Amend. No & Dt.: 00 & 00

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-13099)

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

## TEST REPORT

ISSUED TO:

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

**Discipline:** Chemical

**Group:** Atmospheric Pollution

**Product:** Ambient Air Quality Monitoring – SEPTEMBER 2024

**Location-4:** Varakavipudi Village

**Sample Registration Date:** 28.09.2024

**Issue Date:** 05.09.2024

**Lab Ref:** SEPL/ES/SEILEILP/09-24/0004

**Sample collected person details:** S. Ganesh

## TEST RESULTS

Date Of Sampling	µg/m <sup>3</sup>				mg/m <sup>3</sup>	µg/m <sup>3</sup>				ng/m <sup>3</sup>		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
05.09.2024	43.7	22.3	14.5	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
06.09.2024	46.2	23.4	11.1	9.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.09.2024	37.4	21.1	13.4	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.09.2024	45.5	24.6	12.9	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.09.2024	44.1	23.5	14.2	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.09.2024	46.2	22.7	13.3	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.09.2024	42.8	24.9	13.5	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.09.2024	38.6	20.8	12.8	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>37.4</b>	<b>20.8</b>	<b>11.1</b>	<b>7.1</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Max</b>	<b>46.2</b>	<b>24.9</b>	<b>14.5</b>	<b>9.8</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Avg.</b>	<b>43.1</b>	<b>22.9</b>	<b>13.2</b>	<b>8.4</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>98 Percentile</b>	<b>46.2</b>	<b>24.9</b>	<b>14.5</b>	<b>9.7</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	2.0

### Instruments Details:

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

### Instruments Detail:

Instrument : Respirable Dust sampler  
Model/SI NO : AAQ510 MFC / 220723  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2025

K.S.Laj  
Verified by



P. Suresh W.  
Authorized by  
Managing Director

Form No : F-7.8-02

Issue No & Date 01& 20.06.2019

Amend. No & Dt.: 00 & 00

**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-13099)

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

## SUMMARY OF AMBIENT AIR QUALITY –SEPTEMBER 2024

Pollutants	Description	Unit	Fire Station (Plant)-1	Sivaramapuram Village-2	Chandra sekharapuram Village-3	Varakavipudi Village-4
PM <sub>10</sub>	Minimum	μg/m <sup>3</sup>	36.5	37.1	38.3	37.4
	Maximum		49.6	48.8	46.5	46.2
	Average		42.2	43.0	42.8	43.1
	98 Percentile		49.1	48.6	46.4	46.2
PM <sub>2.5</sub>	Minimum		20.1	21.4	21.7	20.8
	Maximum		25.9	24.2	25.5	24.9
	Average		23.3	23.0	23.7	22.9
	98 Percentile		25.7	24.1	25.5	24.9
SO <sub>2</sub>	Minimum		12.7	11.9	10.7	11.1
	Maximum		15.6	15.8	15.4	14.5
	Average		14.2	13.6	13.0	13.2
	98 Percentile		15.6	15.6	15.3	14.5
NO <sub>x</sub>	Minimum		7.9	7.2	7.4	7.1
	Maximum		9.9	9.4	9.7	9.8
	Average		8.8	8.3	8.5	8.4
	98 Percentile		9.8	9.4	9.7	9.7

K.S.Laj  
Verified by



Praveesh W.  
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



SEIL Project-2 Environment Expenditure			
S.No	Area	Particulars	Expenses in Rs.
1	CHP	Operations (CHP)	₹ 7,816,153
2		Mechanical Maintnenace	₹ 1,234,340
3		Electrical Maintnenace	₹ 818,500
4		Coal Yard Sprinklers	₹ 2,720,000
5		DFDS System	₹ 386,000
6	AHP	Operations	₹ 6,324,205
7		Mechanical Maintnenace	₹ 1,214,200
8		Electrical Maintnenace	₹ 211,654
9		C&I Maintnenance	₹ 3,800,000
10	Others	Green Belt	₹ 6,924,139
11		Fly Ash	₹ 1,200,000
12		Haz Waste disposal	₹ 164,341