



**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/2023/005  
27<sup>th</sup> November 2023

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 2023 to September 2023**

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 and EIA Notification 2006, we hereby submit the half yearly compliance status report for the period of April 2023 to September 2023 along with supporting documents to the conditions specified with respect to Environmental Clearance issued to SEIL Energy India Limited Project-2 (Formerly Sembcorp Energy India Limited), Nellore.

Hope the above is in order.

Thanking you,

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

**Pavan Kumar Rao V**  
Head HSE

**Encl:** As above

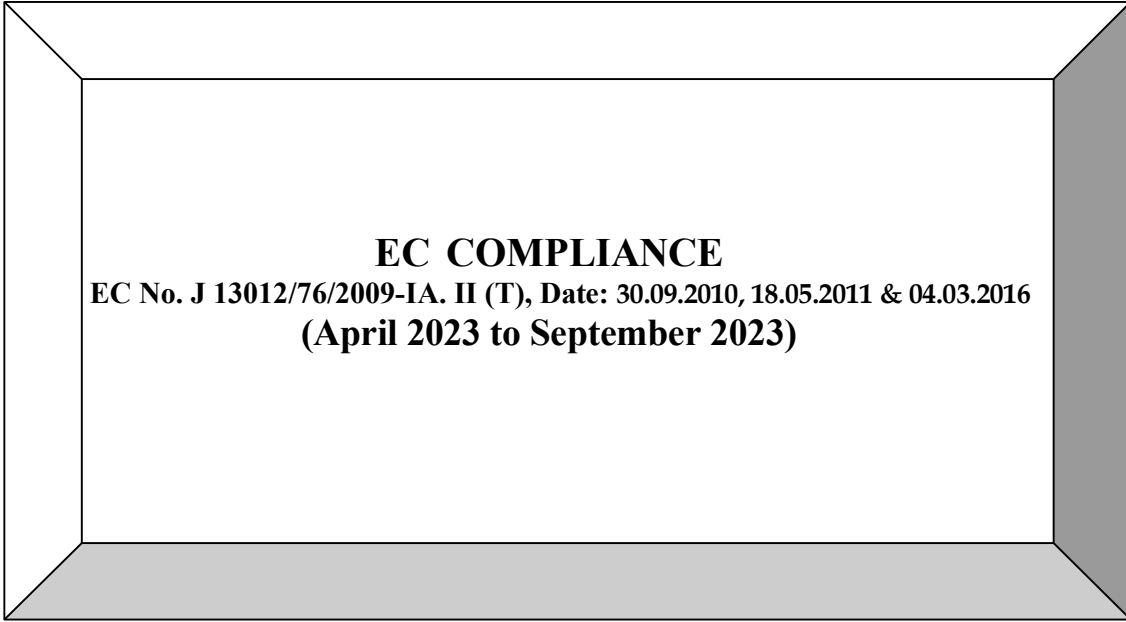
Copy To:

1. The Director, IA.I, MoEF&CC, New Delhi
2. The Joint Director (S), Scientist 'D', MoEF&CC, IRO, 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, at 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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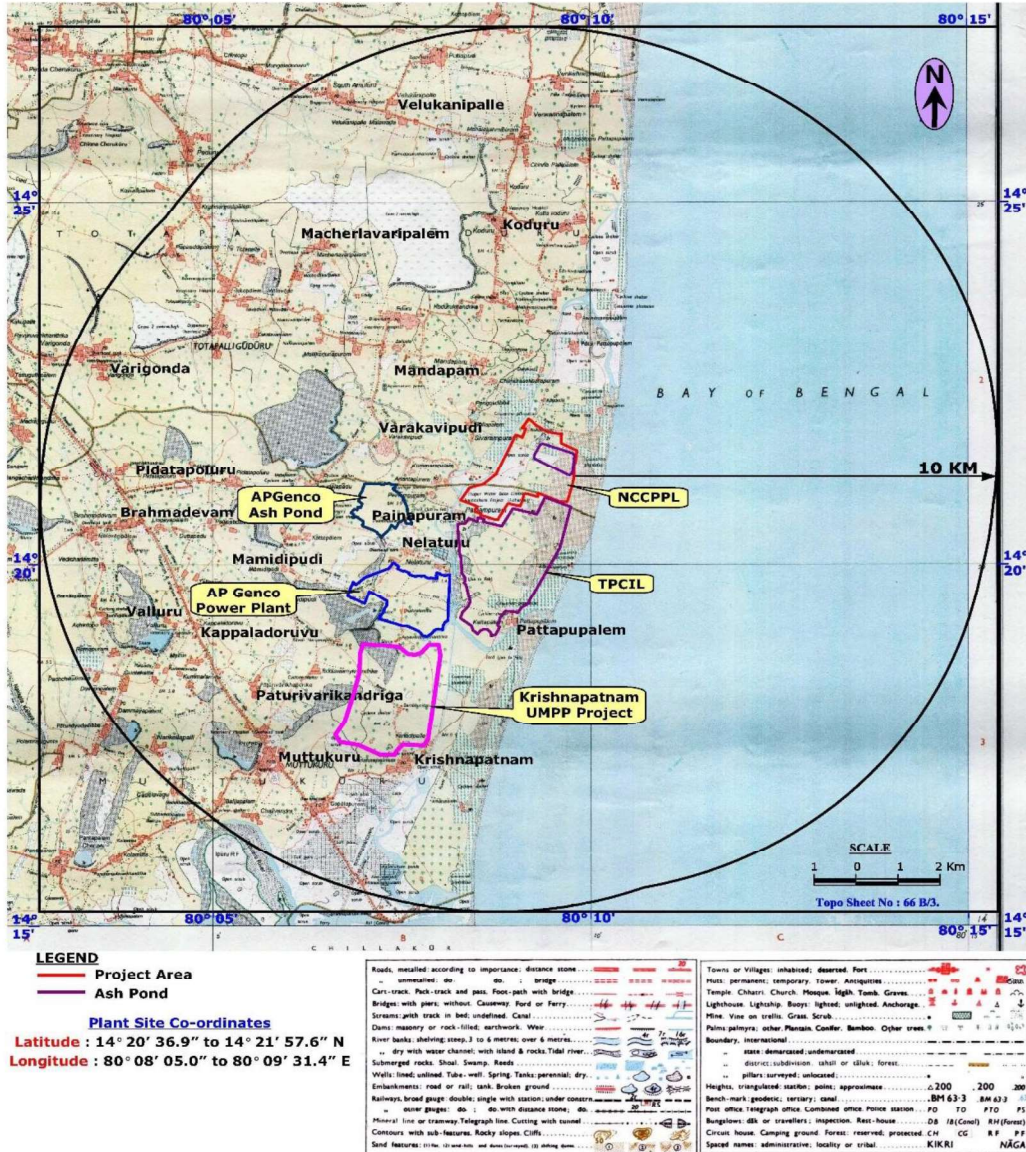
EC No. J 13012/76/2009-IA. II (T), Date: 30.09.2010, 18.05.2011 & 04.03.2016

Fig. - 1 (LOCATION MAP)



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Fig. – 2 (TOPOGRAPHICAL MAP OF 10 KM RADIUS AREA)



STUDY AREA MAP OF 10KM RADIUS

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**02. Statutory Approvals/Clearances:**

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

<b>S. No.</b>	<b>Authorization</b>	<b>Accorded By</b>	<b>Validity</b>
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>Renewed and is valid till 28<sup>th</sup> February 2027.</b>



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**CONDITION WISE COMPLIANCE TO ACCORDED ENVIRONMENT CLEARANCE**


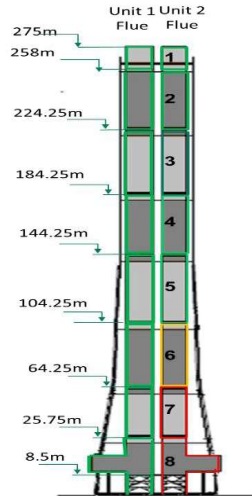
<b>S No.</b>	<b>Condition</b>	<b>Compliance</b>
<b>A-Specific Conditions</b>		
i	Environmental clearance is subject to obtaining CRZ clearance (as applicable) for permissible activities in CRZ area.	CRZ clearance obtained from MoEF (F No. 11- 44/2011– IA – III dated 9 <sup>th</sup> April 2012 and amendment 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.


<b>S No.</b>	<b>Condition</b>	<b>Compliance</b>
iv	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><b>Complying.</b></p> <p>During April 2023 to September 2023 Sembcorp has supported the local community in various ways like Health, Education, Skill Development, Decarbonization &amp; Rural Development. CSR Updates from April 2023 to September 2023 attached as <b>Annexure-I</b>.</p>
v	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.	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].
vi	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.	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].



<b>S No.</b>	<b>Condition</b>	<b>Compliance</b>
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>



<b>S No.</b>	<b>Condition</b>	<b>Compliance</b>
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.	<b>Complied.</b>
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.	<b>Complying.</b>



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 18<sup>th</sup> April 2023.</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 APPCB 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>


<b>S No.</b>	<b>Condition</b>	<b>Compliance</b>
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 and APPCB 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 Gayatri Power Limited- SGPL) 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 in progress 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 crusher unit. 

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S No.	Condition	Compliance
		
xxi	<p>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>	<p><b>Complied.</b>          SEIL Project-2 (formerly known as Sembcorp Energy India Limited) Unit-1 &amp; Unit-2 commenced operation from Nov 2016 &amp; Feb 2017.          Coal Analysis Lab test reports are attached as <b>Annexure-VI.</b></p>
xxii	<p>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>	<p><b>Complying.</b>          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 FY2022-23 vide letter No. SEIL P2/MoEF&amp;CC/Chennai/2023/002 dated 29<sup>th</sup> May 2023 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. No ash shall be disposed off in low lying area.</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> 

<b>S No.</b>	<b>Condition</b>	<b>Compliance</b>
xxiv	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><b>Complied.</b></p> 
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”, SEIL is taking suitable measures to utilize bottom ash in accordance with 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%.	<p><b>Complied.</b></p> <p>An area of 350 acres green belt / green cover developed adopting scientific methods like establishment of mist chamber, drip &amp; sprinkler system, vermicompost production &amp; application of bio pesticides.</p> <p>Peripheral planting along inside of the compound wall has been completed with 3 tiers of plantation.</p>

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<b>S No.</b>	<b>Condition</b>	<b>Compliance</b>
		 <p>The 'Compliance' column contains four photographs arranged vertically. The top photo shows a paved road with a yellow and black striped curb, bordered by a dense row of green plants and palm trees. The second photo shows a similar landscaped area with a paved path, green plants, and trees. The third photo shows a landscaped area with a paved path, green plants, and trees. The bottom photo shows a paved road with a yellow and black striped curb, bordered by a dense row of green plants and palm trees.</p>



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<b>S No.</b>	<b>Condition</b>	<b>Compliance</b>
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 2023 to September 2023 attached as <b>Annexure-I</b>.</p>

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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>
xxxi	<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 has been incorporated in 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> 

<b>S No.</b>	<b>Condition</b>	<b>Compliance</b>
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>  SEIL Project-2 (formerly known as Sembcorp Energy India Limited) is not using any groundwater for its operations or non-plant operations.  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.  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>  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>  Stockpile Dust Suppression sprinklers installed in all coal yards.</p>

<b>S No.</b>	<b>Condition</b>	<b>Compliance</b>
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 and other location of the plant. 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> 


<b>S No.</b>	<b>Condition</b>	<b>Compliance</b>
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.	<p><b>Complying.</b></p> <p>Quarterly Noise monitoring studies are carried out through MoEF&amp;CC approved laboratory.</p> <p>Reports attached as <b>Annexure-XIII.</b></p>
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.	<p><b>Complying.</b></p> <p>Ambient Air Quality Monitoring carried out by MoEF&amp;CC approved Laboratory and Six-monthly reports submitted to APPCB.</p> <p>Reports attached as <b>Annexure-XIV.</b></p>
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**


<b>S No.</b>	<b>Condition</b>	<b>Compliance</b>
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.



S No.	Condition	Compliance
xiv	<p>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, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.</p>	<p><b>Complying.</b>            EC Six monthly compliance reports are being submitted. (Ref: SEIL P2/ MoEF&amp;CC/ Chennai/ 2023/003 dated 30<sup>th</sup> May 2023)            The reports are uploaded on SEIL website @ <a href="https://seilenergy.com/AboutUs/Disclosure">https://seilenergy.com/AboutUs/Disclosure</a></p> 
xv	<p>The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (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>	<p><b>Complying.</b>            EC Six monthly compliance reports are being submitted. (Ref: SEIL P2/ MoEF&amp;CC/ Chennai/ 2023/003 dated 30<sup>th</sup> May 2023)            The reports are uploaded on SEIL website @ <a href="https://seilenergy.com/AboutUs/Disclosure">https://seilenergy.com/AboutUs/Disclosure</a></p>
xvi	<p>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>	<p><b>Complying.</b>            (Environment Statement in Form-V submitted to APPCB vide letter No. SEIL P2/ APPCB/ BZA/2023/006 dated 28<sup>th</sup> September 2023)</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	<p>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>	<p><b>Complied.</b>            EC Six Monthly Compliance Reports are being submitted. (Ref: SEIL P2/ MoEF&amp;CC/ Chennai/ 2023/003 dated 30<sup>th</sup> May 2023)            The reports are uploaded on SEIL website @ <a href="https://seilenergy.com/AboutUs/Disclosure">https://seilenergy.com/AboutUs/Disclosure</a></p>
xviii	<p>Regional Office of the Ministry of Environment &amp; 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 &amp; ambient air) shall be displayed at the main gate of the power plant.</p>	<p><b>Complied.</b></p>  <p>The reports were submitted to Ministry during project phase. EIA and EMP were already submitted.</p>

<b>S No.</b>	<b>Condition</b>	<b>Compliance</b>
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> Submitted Half Yearly Compliance reports including project progress photos and other details.
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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<b>S No.</b>	<b>Condition</b>	<b>Compliance</b>
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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*M/s. SEIL Energy India Limited Project-2*  
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**GREEN COVER AROUND PERIPHERY**

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**GREEN COVER ALONG THE PLANT ROADS**

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



**GREEN COVER INSIDE THE PLANT**

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*M/s. SEIL Energy India Limited Project-2*  
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**GREEN COVER ALONG MAIN PLANT ROAD**



**AVENUE PLANTATION**

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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**

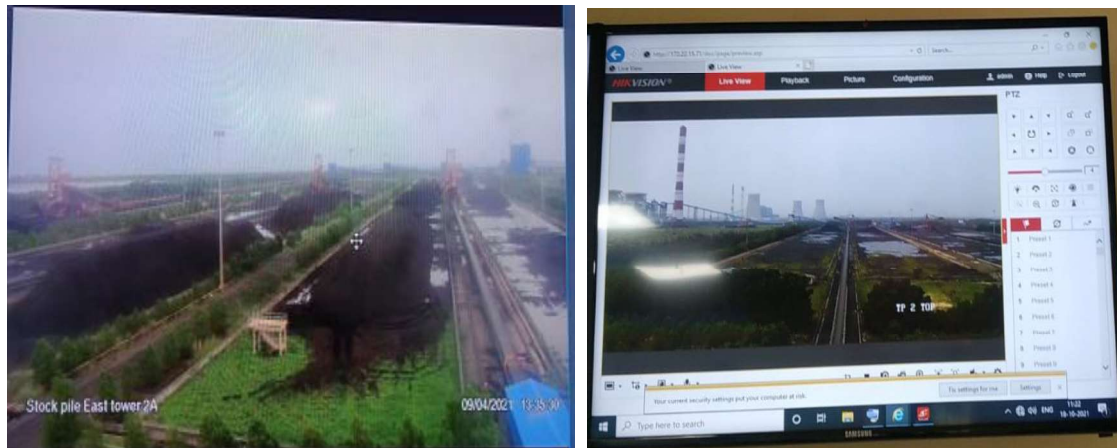
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**WIND BREAK PLANTATION AROUND COAL YARD**



**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**

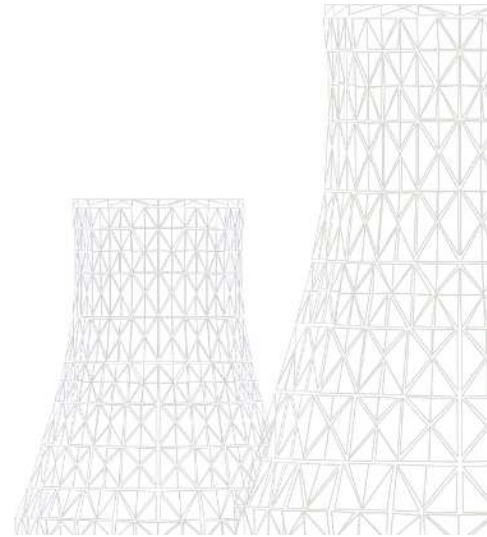
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# CSR UPDATES

SEIL ENERGY INDIA LIMITED

**APR 2023 TO SEPT 2023**





**CSR Expenditure FY 2023-24**

Amount in INR Mn

<b>S. NO</b>	<b>Thematic Area</b>	<b>Expenditure till Oct -23</b>
1	Health	9.32
2	Education	10.56
3	Skill Development	1.50
4	Decarbonization	0.82
5	Rural Development	0.00
6	Admin Cost	-
<b>Grand Total</b>		<b>22.19</b>





**HEALTH**

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

**HEALTH - PHOTOS**



**EYE CHECKUP CAMPS**



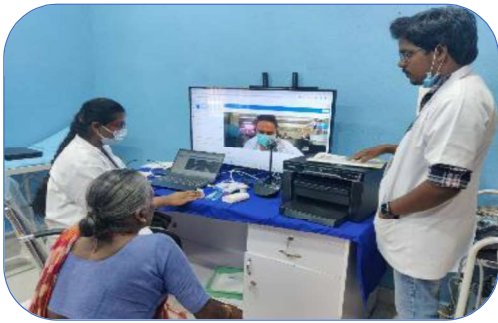
**AUDIOMETRY CAMPS**



**MEDICAL EQUIPMENT TO HOSPITALS**



HEALTH - PHOTOS



Telemedicine Center



Mobile Medical Van



Social Health Education and NCD Screening by ATNF





**EDUCATION**

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

EDUCATION PROJECT - PHOTOS



VEHICLE SUPPORT



EDUCATION INTERVENTION IN GOVERNMENT SCHOOLS





**SKILL DEVELOPMENT**

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



**SKILL DEVELOPMENT CENTER AND IT TRAININGS PHOTOS**



**SELF EMPLOYED TAILOR, ADVANCED TAILORING AND IT TRAININGS COURSES**

**SAFETY TRAININGS TO COMMUNITIES**





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



ON GRID SOLAR



VIKAM SIMHAPURI UNIVERSITY (VSU)



INDIAN REDCROSS SOCIETY





**SOLAR PROJECTS**



**PROJECT HARITH**



VETERINARY CAMPS





THANK YOU





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

## ANNEXURE-II

### TEST REPORT

ISSUED TO:

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

**Discipline: Chemical**

**Group: Water**

**Product: Marine Outfall Water**

**Date of Sampling: 25.05.2023**

**Sample Collected By: Ganesh**

**Sample Registration Date: 26.05.2023**

**Analysis Starting Date: 27.05.2023**

**Analysis Completed Date: 30.05.2023**

**Issue Date: 31.05.2023**

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

### TEST RESULT

S. NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1	pH	IS:3025(Part-11)1983	--	7.4	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	23,168	--
5	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	18,473	--
6	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	45	100
7	Chemical Oxygen Demand	IS:3025(Part-58)-2006	mg/l	39	250
8	Biochemical Oxygen Demand (3 days at 27°C)	IS:3025(Part-44)-1993	mg/l	27	100
9	Oil & Grease	IS:3025(Part-39)-1991	mg/l	<1.0	10
10	Total Hardness as CaCO <sub>3</sub>	IS:3025(Part-21)-2012	mg/l	4,169	--
11	Total Alkalinity as CaCO <sub>3</sub>	IS:3025(Part-23)-2012	mg/l	725	--
12	P- Alkalinity as CaCO <sub>3</sub>	IS:3025(Part-13)-1964	mg/l	Nil	--
13	Turbidity	IS:3025(Part-10)-2012	NTU	2.3	--
14	Calcium as Ca	IS:3025(Part-40)-2012	mg/l	1,116	--
15	Magnesium as Mg	IS:3025(Part-46)-2012	mg/l	251	--
16	Sodium as Na	IS:3025(Part-45)1993	mg/l	547	--

K.S.Laj  
Verified by



DA  
Authorized by  
Managing Director

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





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S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
17	Potassium as K	IS:3025(Part-45)1993	mg/l	283	--
18	Chloride as Cl	IS:3025(Part-32)-2012	mg/l	7,541	--
19	Sulphates as SO <sub>4</sub>	IS:3025(Part-24)-2012	mg/l	737	--
20	Nitrates as NO <sub>3</sub>	IS:3025(Part-34)-2012	mg/l	25.3	--
21	Carbonates as CO <sub>3</sub>	IS:3025(Part-51)-2017	mg/l	Nil	--
22	Bio Carbonates as HCO <sub>3</sub>	IS:3025(Part-51)-2017	mg/l	449	--
23	Iron as Fe	IS:3025(Part-53)-2012	mg/l	2.6	--
24	Fluoride as F	IS:3025(Part-60)-2012	mg/l	1.8	--
25	Copper as Cu	IS:3025(Part-42)-2012	mg/l	0.24	--
26	Manganese as Mn	IS:3025(Part-59)-2012	mg/l	0.19	--
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	0.33	--
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	0.002	--
37	Silica as SiO <sub>2</sub>	IS:3025(Part-35)-2019	mg/l	31.3	--

Note: IS- Indian Standard

K.S.Laj  
Verified by



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Authorized by  
Managing Director

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

**Discipline: Chemical**

**Group: Water**

**Product: Marine Outfall Water (Fish Bio-Assay Test)**

**Date of Sampling: 25.05.2023**

**Sample Collected By: Ganesh**

**Sample Registration Date: 26.05.2023**

**Analysis Starting Date: 27.05.2023**

**Analysis Completed Date: 30.05.2023**

**Issue Date: 31.05.2023**

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

## TEST RESULT

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

## REFERENCE TEST DATA

START DATE: 27.05.2023

END DATE: 30.05.2023

### **COMMENTS:**

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.Laj  
Verified by



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Authorized by  
Managing Director

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





# 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: Water**

**Product: Marine Outfall Water**

**Date of Sampling: 16.08.2023**

**Sample Collected By: Ganesh**

**Sample Registration Date: 17.08.2023**

**Analysis Starting Date: 17.08.2023**

**Analysis Completed Date: 23.08.2023**

**Issue Date: 23.08.2023**

**Lab Ref: SEPL/ES/SEILEILP/08-23/0001**

## TEST RESULT

S. NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1	pH	IS:3025(Part-11)1983	--	7.8	6.5-8.5
2	Temperature Intake	--	°C	27.4	Shall not exceed 5°C above the Receiving temperature
3	Temperature Out Fall	--	°C	30.1	
4	Electric Conductivity	IS: 3025:1964	µs/cm	23,252	--
5	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	18,684	--
6	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	57	100
7	Chemical Oxygen Demand	IS:3025(Part-58)-2006	mg/l	45	250
8	Biochemical Oxygen Demand (3 days at 27°C)	IS:3025(Part-44)-1993	mg/l	31	100
9	Oil & Grease	IS:3025(Part-39)-1991	mg/l	<1.0	10
10	Total Hardness as CaCO <sub>3</sub>	IS:3025(Part-21)-2012	mg/l	4,584	--
11	Total Alkalinity as CaCO <sub>3</sub>	IS:3025(Part-23)-2012	mg/l	736	--
12	P- Alkalinity as CaCO <sub>3</sub>	IS:3025(Part-13)-1964	mg/l	Nil	--
13	Turbidity	IS:3025(Part-10)-2012	NTU	2.7	--
14	Calcium as Ca	IS:3025(Part-40)-2012	mg/l	1,365	--
15	Magnesium as Mg	IS:3025(Part-46)-2012	mg/l	278	--
16	Sodium as Na	IS:3025(Part-45)1993	mg/l	534	--

K.S.Laj  
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Managing Director

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**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	257	--
18	Chloride as Cl	IS:3025(Part-32)-2012	mg/l	7,735	--
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	21.4	--
21	Carbonates as CO <sub>3</sub>	IS:3025(Part-51)-2017	mg/l	Nil	--
22	Bio Carbonates as HCO <sub>3</sub>	IS:3025(Part-51)-2017	mg/l	568	--
23	Iron as Fe	IS:3025(Part-53)-2012	mg/l	1.7	--
24	Flouride as F	IS:3025(Part-60)-2012	mg/l	1.2	--
25	Copper as Cu	IS:3025(Part-42)-2012	mg/l	0.21	--
26	Manganese as Mn	IS:3025(Part-59)-2012	mg/l	0.37	--
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	0.24	--
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	0.006	--
37	Silica as SiO <sub>2</sub>	IS:3025(Part-35)-2019	mg/l	30.9	--

Note: IS- Indian Standard

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# SPECTRA ENVIROTECH PVT LTD

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

## TEST REPORT

ISSUED TO:

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

**Discipline: Chemical**

**Group: Water**

**Product: Marine Outfall Water**

**Date of Sampling: 16.08.2023**

**Sample Collected By: Ganesh**

**Sample Registration Date: 17.08.2023**

**Analysis Starting Date: 17.08.2023**

**Analysis Completed Date: 23.08.2023**

**Issue Date: 23.08.2023**

**Lab Ref: SEPL/ES/SEILELP/08-23/0002**

## TEST RESULT

TEST SPECIES	SOURCE OF ORGANISM	LENGTH & WEIGHT(For Fish)	REMARKS
Zebra Fish	Through vendors	1. Length 4.0 cm 2. Weight 3.4 gm	1. Fish were not fed <u>Yes</u> 2. Temperature range in aquarium 25°C

## REFERENCE TEST DATA

START DATE: 17.08.2023

END DATE: 23.08.2023

### **COMMENTS:**

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.Laj  
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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 INLET**

**Date of Monitoring: 25.05.2023**

**Sample Collected By: Ganesh**

**Sample Registration Date: 26.05.2023**

**Analysis Starting Date: 27.05.2023**

**Analysis Completed Date: 29.05.2023**

**Issue Date: 31.05.2023**

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

## TEST RESULT

S. NO.	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS
1.	pH	IS:3025(Part-11)1983	--	6.6
2.	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	737
3.	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	85
4.	Chemical Oxygen Demand	IS:3025(Part-58)-1986	mg/l	65
5.	Biochemical Oxygen Demand (5 days at 20°C)	IS:3025(Part-44)-1993	mg/l	34
6.	Oil & Grease	IS:3025(Part-39)-1991	mg/l	2.9

Note: IS- Indian Standard

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

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





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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: 25.05.2023**

**Sample Collected By: Ganesh**

**Sample Registration Date: 26.05.2023**

**Analysis Starting Date: 27.05.2023**

**Analysis Completed Date: 29.05.2023**

**Issue Date: 31.05.2023**

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

## TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARD
1.	pH	IS:3025(Part-11)1983	--	6.8	5.5-9.0
2.	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	243	2100
3.	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	47	200
4.	Chemical Oxygen Demand	IS:3025(Part-58)-1986	mg/l	42	250
5.	Biochemical Oxygen Demand (5 days at 20°C)	IS:3025(Part-44)-1993	mg/l	16	100
6.	Oil & Grease	IS:3025(Part-39)-1991	mg/l	<1.0	10

Note: IS- Indian Standard

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## 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 INLET**

**Date of Monitoring: 16.08.2023**

**Sample Collected By: Ganesh**

**Sample Registration Date: 17.08.2023**

**Analysis Starting Date: 17.08.2023**

**Analysis Completed Date: 23.08.2023**

**Issue Date: 23.08.2023**

**Lab Ref: SEPL/ES/SEILEILP/08-23/0001**

## TEST RESULT

S. NO.	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS
1.	pH	IS:3025(Part-11)1983	--	6.8
2.	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	758
3.	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	73
4.	Chemical Oxygen Demand	IS:3025 (Part-58)-1986	mg/l	59
5.	Biochemical Oxygen Demand (5 days at 20°C)	IS:3025(Part-44)-1993	mg/l	41
6.	Oil & Grease	IS:3025(Part-39)-1991	mg/l	2.5

Note: IS- Indian Standard

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

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





# 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: Water**

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

**Date of Monitoring: 16.08.2023**

**Sample Collected By: Ganesh**

**Sample Registration Date: 17.08.2023**

**Analysis Starting Date: 17.08.2023**

**Analysis Completed Date: 23.08.2023**

**Issue Date: 23.08.2023**

**Lab Ref: SEPL/ES/SEILEILP/08-23/0002**

## TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARD
1.	pH	IS:3025(Part-11)1983	--	7.2	5.5-9.0
2.	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	276	2100
3.	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	42	200
4.	Chemical Oxygen Demand	IS:3025(Part-58)-1986	mg/l	39	250
5.	Biochemical Oxygen Demand (5 days at 20°C)	IS:3025(Part-44)-1993	mg/l	15	100
6.	Oil & Grease	IS:3025(Part-39)-1991	mg/l	<1.0	10

Note: IS- Indian Standard

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

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ISO 45001 : 2018

## TEST REPORT

REF.NO: UEA/SGPL/R2/0423

Date: 11-04-2023

### WASTEWATER ANALYSIS


### ANNEXURE-IV

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

Sample Particulars : STP Outlet  
Date of collection : 04-04-2023  
Date of Analysis : 04-04-2023

S No	Parameter	Units	Method	Result
1	pH @ 25.0°C	---	APHA 23 <sup>rd</sup> Edition,2017, 4500 H+ B	7.18
2	Total Dissolved Solids	mg/L	APHA 23 <sup>rd</sup> Edition,2017, 2540 C	542
3	Total Suspended Solids	mg/L	APHA 23 <sup>rd</sup> Edition,2017, 2540 D	16.1
4	Chemical Oxygen Demand	mg/L	APHA 23 <sup>rd</sup> Edition,2017: 5220 B	9.7
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	0.7

  
Analyst

  
Authorized Signatory

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

Ph: 040 - 2763 3361, e-mail: uea123@gmail.com, www.universalenviro.in

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ISO 45001 : 2018

## TEST REPORT

REF.NO: UEA/SGPL/R2/0523


Date: 16-05-2023

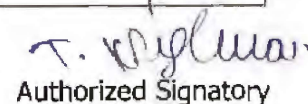
### WASTEWATER ANALYSIS

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

Sample Particulars : STP Outlet  
Date of collection : 09-05-2023  
Date of Analysis : 09-05-2023

S No	Parameter	Units	Method	Result
1	pH @ 25.0°C	---	APHA 23 <sup>rd</sup> Edition,2017, 4500 H+ B	7.18
2	Total Dissolved Solids	mg/L	APHA 23 <sup>rd</sup> Edition,2017, 2540 C	426
3	Total Suspended Solids	mg/L	APHA 23 <sup>rd</sup> Edition,2017, 2540 D	15.7
4	Chemical Oxygen Demand	mg/L	APHA 23 <sup>rd</sup> Edition,2017: 5220 B	7.4
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	0.8

  
Analyst

  
Authorized Signatory

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Ph: 040 - 2763 3361, e-mail: uea123@gmail.com, www.universalenviro.in

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## TEST REPORT

REF.NO: UEA/SEIL/R2/0623

Date: 27-06-2023

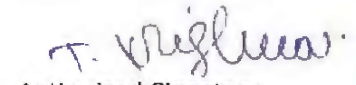
### WASTEWATER ANALYSIS

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 : 20-06-2023  
Date of Analysis : 20-06-2023

S No	Parameter	Units	Method	Result
1	pH @ 25.0°C	---	APHA 23 <sup>rd</sup> Edition,2017, 4500 H+ B	7.22
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	15.1
4	Chemical Oxygen Demand	mg/L	APHA 23 <sup>rd</sup> Edition,2017: 5220 B	14.6
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

  
Analyst

  
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# 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/R2/0723

Date: 03-08-2023

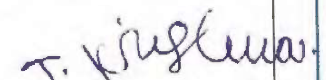
### WASTEWATER ANALYSIS

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 : 25-07-2023  
Date of Analysis : 25-07-2023

S No	Parameter	Units	Method	Result
1	pH @ 25.0°C	---	APHA 23 <sup>rd</sup> Edition,2017, 4500 H+ B	7.19
2	Total Dissolved Solids	mg/L	APHA 23 <sup>rd</sup> Edition,2017, 2540 C	539
3	Total Suspended Solids	mg/L	APHA 23 <sup>rd</sup> Edition,2017, 2540 D	18.2
4	Chemical Oxygen Demand	mg/L	APHA 23 <sup>rd</sup> Edition,2017: 5220 B	9.7
5	Biochemical 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	0.7

  
Analyst

  
Authorized Signatory

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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/R2/0823

Date: 08-08-2023

### 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 : 01-08-2023  
Date of Analysis : 01-08-2023

S No	Parameter	Units	Method	Result
1	pH @ 25.0°C	---	APHA 23 <sup>rd</sup> Edition,2017, 4500 H+ B	7.11
2	Total Dissolved Solids	mg/L	APHA 23 <sup>rd</sup> Edition,2017, 2540 C	601
3	Total Suspended Solids	mg/L	APHA 23 <sup>rd</sup> Edition,2017, 2540 D	22.9
4	Chemical Oxygen Demand	mg/L	APHA 23 <sup>rd</sup> Edition,2017: 5220 B	10.1
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	0.4

*H. Suresh*  
Analyst

*T. Rigneeva*  
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**

Note: This report is subject to the terms and conditions mentioned overleaf



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Certified by ISO 9001 : 2015 and  
ISO 45001 : 2018

## TEST REPORT

REF.NO: UEA/SEIL/R2/0923

Date: 03-10-2023

### 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 : 26-09-2023  
Date of Analysis : 26-09-2023

S No	Parameter	Units	Method	Result
1	pH @ 25.0°C	---	APHA 23 <sup>rd</sup> Edition,2017, 4500 H+ B	7.31
2	Total Dissolved Solids	mg/L	APHA 23 <sup>rd</sup> Edition,2017, 2540 C	569
3	Total Suspended Solids	mg/L	APHA 23 <sup>rd</sup> Edition,2017, 2540 D	181
4	Chemical Oxygen Demand	mg/L	APHA 23 <sup>rd</sup> Edition,2017: 5220 B	9.8
5	Biochemical 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	0.7

  
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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# SPECTRA ENVIROTECH PVT LTD

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

ANNEXURE-V

## 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 2023**

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

**Date of Monitoring: 25.05.2023**

**Sample Registration Date: 26.05.2023**

**Analysis Starting Date: 27.05.2023**

**Analysis Completed Date: 30.05.2023**

**Issue Date: 31.05.2023**

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

### TEST RESULT

1. Time of Sampling ---- : 10:20 Hrs. to 11:20 Hrs.
2. Time Duration : 00:60 Hrs.
3. Ambient Temperature (°C) : 34.3
4. Flue gas Temperature (°C) : 146
5. Velocity of the flue gas (m/sec) : 25.23
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) : 4011872

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1.	Particulate Matter (PM)	IS 11255 (part-1)1985	mg/Nm <sup>3</sup>	< 50	32.4
2.	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (part-2)1985	mg/Nm <sup>3</sup>	-	636
3.	Oxides of Nitrogen (NO <sub>x</sub> )	IS 11255 (part-7)1985	mg/Nm <sup>3</sup>	350	252
4.	Carbon Monoxide (CO)	NSPS Test Method-10	ppm	-	1.3
5.	Mercury as Hg	State of California Air Resources Board, Method10A	mg/Nm <sup>3</sup>	0.03	< 0.01

#### Instrument Details:

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

K.S.Laj  
Verified by



DA  
Authorized by  
Managing Director

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

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

**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 2023**

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

**Date of Monitoring: 25.05.2023**

**Sample Registration Date: 26.05.2023**

**Analysis Starting Date: 27.05.2023**

**Analysis Completed Date: 30.05.2023**

**Issue Date: 31.05.2023**

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

## TEST RESULT

1. Time of Sampling ---- : 11:30 Hrs. to 12:25 Hrs.
2. Time Duration : 00:55 Hrs.
3. Ambient Temperature (°C) : 34.3
4. Flue gas Temperature (°C) : 146
5. Velocity of the flue gas (m/sec) : 25.31
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) : 4024593

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1.	Particulate Matter (PM)	IS 11255 (part-1)1985	mg/Nm <sup>3</sup>	< 50	35.9
2.	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (part-2)1985	mg/Nm <sup>3</sup>	-	631
3.	Oxides of Nitrogen (NOx)	IS 11255 (part-7)1985	mg/Nm <sup>3</sup>	350	283
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 : 28.02.2024

K.S.Laj  
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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 2023**

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

**Date of Monitoring: 16.08.2023**

**Sample Registration Date: 17.08.2023**

**Analysis Starting Date: 17.08.2023**

**Analysis Completed Date: 23.08.2023**

**Issue Date: 23.08.2023**

**Lab Ref: SEPL/ES/SEILEILP/08-23/0001**

## TEST RESULT

1. Time of Sampling ---- : 10:30 Hrs. to 11:30 Hrs.
2. Time Duration : 00:60 Hrs.
3. Ambient Temperature (°C) : 33.6
4. Flue gas Temperature (°C) : 143
5. Velocity of the flue gas (m/sec) : 25.5
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) : 3051872

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1.	Particulate Matter (PM)	IS 11255 (part-1)1985	mg/Nm <sup>3</sup>	< 50	28.3
2.	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (part-2)1985	mg/Nm <sup>3</sup>	-	682
3.	Oxides of Nitrogen (NO <sub>x</sub> )	IS 11255 (part-7)1985	mg/Nm <sup>3</sup>	350	247
4.	Carbon Monoxide (CO)	NSPS Test Method-10	Ppm	-	1.5
5.	Mercury as Hg	State of California Air Resources Board, Method10A	mg/Nm <sup>3</sup>	0.03	< 0.01

### Instrument Details:

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

K.S.Laj  
Verified by



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Managing Director

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

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

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## 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 2023**

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

**Date of Monitoring: 16.08.2023**

**Sample Registration Date: 17.08.2023**

**Analysis Starting Date: 17.08.2023**

**Analysis Completed Date: 23.08.2023**

**Issue Date: 23.08.2023**

**Lab Ref: SEPL/ES/SEILEILP/08-23/0002**

## TEST RESULT

1. Time of Sampling ---- : 12:00 Hrs. to 12:50 Hrs.
2. Time Duration : 00:55 Hrs.
3. Ambient Temperature (°C) : 32.1
4. Flue gas Temperature (°C) : 142
5. Velocity of the flue gas (m/sec) : 25.2
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) : 3016864

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1.	Particulate Matter (PM)	IS 11255 (part-1)1985	mg/Nm <sup>3</sup>	< 50	25.2
2.	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (part-2)1985	mg/Nm <sup>3</sup>	-	845
3.	Oxides of Nitrogen (NO <sub>x</sub> )	IS 11255 (part-7)1985	mg/Nm <sup>3</sup>	350	287
4.	Carbon Monoxide (CO)	NSPS Test Method-10	ppm	-	1.75
5.	Mercury as Hg	State of California Air Resources Board, Method10A	mg/Nm <sup>3</sup>	0.03	<0.01

### Instrument Details:

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

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## TEST REPORT

## ANNEXURE-VI

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- May 2023**

**Sample Location: Coal Feeder#1**

**Date of Monitoring: 25.05.2023**

**Sample Collected By: Ganesh**

**Sample Registration Date: 26.05.2023**

**Analysis Starting Date: 27.05.2023**

**Analysis Completed Date: 30.05.2023**

**Issue Date: 31.05.2023**

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

## TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	ppm	0.18	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	1.12	5.0
4	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	ppm	0.45	5.0

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

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**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.

**Discipline: Chemical**

**Group: Water**

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

Sample Location: Coal Feeder#1

Date of Monitoring: 16.08.2023

Sample Collected By: Ganesh

Sample Registration Date: 17.08.2023

Analysis Starting Date: 17.08.2023

Analysis Completed Date: 23.08.2023

Issue Date: 23.08.2023

Lab Ref: SEPL/ES/SEILEILP/08-23/0001

## TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	ppm	0.26	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	2.10	5.0
4	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	ppm	0.68	5.0

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

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





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## TEST REPORT

## ANNEXURE-VII

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 Fly Ash- May 2023**

**Date of Monitoring: 25.05.2023**

**Sample Collected By: Ganesh**

**Sample Registration Date: 26.05.2023**

**Analysis Starting Date: 27.05.2023**

**Analysis Completed Date: 30.05.2023**

**Issue Date: 31.05.2023**

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

## TEST RESULT

S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	Ppm	0.27	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	0.53	5.0
4	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	Ppm	0.44	5.0

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

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**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.

**Discipline: Chemical**

**Group: Water**

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

**Date of Monitoring: 25.05.2023**

**Sample Collected By: Ganesh**

**Sample Registration Date: 26.05.2023**

**Analysis Starting Date: 27.05.2023**

**Analysis Completed Date: 30.05.2023**

**Issue Date: 31.05.2023**

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

## TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1.	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	Ppm	0.43	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	0.36	5.0
4.	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	ppm	0.46	5.0

**USEPA-** United States Environmental Protection Agency

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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 Fly Ash- August 2023**

**Date of Monitoring: 16.08.2023**

**Sample Collected By: Ganesh**

**Sample Registration Date: 17.08.2023**

**Analysis Starting Date: 17.08.2023**

**Analysis Completed Date: 23.08.2023**

**Issue Date: 23.08.2023**

**Lab Ref: SEPL/ES/SEILEILP/08-23/0001**

## TEST RESULT

S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	Ppm	0.32	5.0
2	Mercury as Hg	USEPA-3050B Dec-1996(Rev.2)	Ppm	<0.05	0.2
3	Chromium as Cr	USEPA-3050B Dec-1996(Rev.2)	Ppm	0.92	5.0
4	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	Ppm	0.58	5.0

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

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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 2023**

**Date of Monitoring: 16.08.2023**

**Sample Collected By: Ganesh**

**Sample Registration Date: 17.08.2023**

**Analysis Starting Date: 17.08.2023**

**Analysis Completed Date: 23.08.2023**

**Issue Date: 23.08.2023**

**Lab Ref: SEPL/ES/SEILEILP/08-23/0002**

## TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1.	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	Ppm	0.48	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	0.39	5.0
4.	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	ppm	0.67	5.0

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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: 25.05.2023

Sample Collected By: Ganesh

Sample Registration Date: 26.05.2023

Analysis Starting Date: 27.05.2023

Analysis Completed Date: 30.05.2023

Issue Date: 31.05.2023

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

## TEST RESULT

S.NO	TEST PARAMETERS	UNIT	TEST METHOD	RESULT	STANDARD
1.	pH	---	IS:3025(Part-11)1983	8.2	6.5-8.5
2.	Color	Hazen	IS-3025(Part-4)2021	Colorless	Colorless
3.	Odor	---	IS-3025(Part-5)	Agreeable	Agreeable
4.	Total Suspended Solids	mg/l	IS:3025(Part-11)1983	38	100
5.	Chemical Oxygen Demand (COD)	mg/l	IS:3025(Part-58)-2006	51	250
6.	Biochemical Oxygen Demand (BOD) (3 days at 27 °C)	mg/l	IS:3025(Part-44)-1993	18	100
7.	Oil & Grease	mg/l	IS:3025(Part-39)-1991	1.3	10
8.	Total Arsenic as As	mg/l	IS:3025(Part-37)-1988	<0.01	0.2
9.	Mercury as Hg	mg/l	IS:3025(Part-48)-1994	<0.001	0.01
10.	Lead as Pb	mg/l	IS:3025(Part-47)-1994	<0.01	2.0
11.	Cadmium as Cd	mg/l	IS:3025(Part-41)-1992	<0.001	2.0
12.	Hexavalent Chromium as Cr <sup>6+</sup>	mg/l	IS:3025(Part-52)-2003	<0.001	1.0

IS-Indian Standard

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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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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: Wastewater

Sample Location: **Ash Pond Effluent Water**

Date of Monitoring: 16.08.2023

Sample Collected By: Ganesh

Sample Registration Date: **17.08.2023**

Analysis Starting Date: **17.08.2023**

Analysis Completed Date: **23.08.2023**

Issue Date: **23.08.2023**

Lab Ref: **SEPL/ES/SEILEILP/08-23/0001**

## TEST RESULT

S.NO	TEST PARAMETERS	UNIT	TEST METHOD	RESULT	STANDARD
1.	pH	---	IS:3025(Part-11)1983	7.3	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	46	100
5.	Chemical Oxygen Demand (COD)	mg/l	IS:3025(Part-58)-2006	78	250
6.	Biochemical Oxygen Demand (BOD) (3 days at 27 °C)	mg/l	IS:3025(Part-44)-1993	24	100
7.	Oil & Grease	mg/l	IS:3025(Part-39)-1991	1.2	10
8.	Total Arsenic as As	mg/l	IS:3025(Part-37)-1988	<0.01	0.2
9.	Mercury as Hg	mg/l	IS:3025(Part-48)-1994	<0.001	0.01
10.	Lead as Pb	mg/l	IS:3025(Part-47)-1994	<0.01	2.0
11.	Cadmium as Cd	mg/l	IS:3025(Part-41)-1992	<0.001	2.0
12.	Hexavalent Chromium as Cr <sup>6+</sup>	mg/l	IS:3025(Part-52)-2003	<0.001	1.0

IS-Indian Standard

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**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:

**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 Water**

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

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

**Date of Monitoring: 25.05.2023**

**Sample Registration Date: 26.05.2023**

**Analysis Starting Date: 27.05.2023**

**Analysis Completed Date: 30.05.2023**

**Issue Date: 31.05.2023**

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

**Sample Collected By: Ganesh**

## TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				PW-1	PW-2	ACCEPTABLE	PERMISSIBLE
1	pH	--	IS3025(P-11)2021	7.2	7.9	6.5- 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.0	1.2	1.0	5.0
3	Turbidity	NTU	IS3025(P-10)1984	0.1	0.4	1.0	5.0
4	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,152	1,149	--	--
5	Temperature	°C	--	21.8	24.3	--	--
6	Total Suspended Solids	mg/l	IS3025(P-17)1984	29	35	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	757	743	500	2000
8	Total Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	242	247	200	600
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	156	162	200	600
10	Calcium as Ca	mg/l	IS3025(P-40)1991	42.1	48.3	75	200
11	Magnesium as Mg	mg/l	IS3025(P-40)1991	24.6	21.7	30	100
12	Free Residual Chlorine	mg/l	IS3025(P-26)1986	<0.1	<0.1	0.2	No Relaxation
13	Boron as B	mg/l	IS3025(P-57)2021	<0.1	<0.1	0.5	1.0
14	Calcium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	150	167	--	--
15	Magnesium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	86	119	--	--
16	Sodium as Na	mg/l	IS3025(P-45)1993	114	124	--	--
17	Potassium as K	mg/l	IS3025(P-45)1993	08	12	--	--
18	Chloride as Cl	mg/l	IS3025(P-32)1988	153	162	250	1000

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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-1	PW-2	ACCEPTABLE	PERMISSIBLE
19	Sulphates as SO <sub>4</sub>	mg/l	IS3025(P-24)1986	74.5	78.3	200	400
20	Nitrates as NO <sub>3</sub>	mg/l	IS3025(P-34)1988	19.6	27.9	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	0.05	0.08	<0.3	No Relaxation
24	Fluoride as F	mg/l	IS3025(P-60)2008	0.72	0.61	<1.0	<1.5
25	Copper as Cu	mg/l	IS3025(P-42)1992	<0.01	<0.01	<0.05	<1.5
26	Manganese as Mn	mg/l	IS3025(P-59)2006	<0.1	<0.1	<0.1	<0.3
27	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	mg/l	IS3025(P-43)1992	<0.001	<0.001	<0.001	<0.002
28	Cadmium as Cd	mg/l	IS3025(P-41)1992	<0.001	<0.001	<0.003	No Relaxation
29	Mercury as Hg	mg/l	IS3025(P-48)1994	<0.001	<0.001	<0.001	No Relaxation
30	Selenium as Se	mg/l	IS3025(P-56)2003	<0.01	<0.01	<0.01	No Relaxation
31	Total Arsenic as As	mg/l	IS3025(P-37)1988	<0.01	<0.01	<0.01	<0.20
32	Cyanide as CN	mg/l	IS3025(P-27)1986	<0.01	<0.01	<0.05	No Relaxation
33	Lead as Pb	mg/l	IS3025(P-47)1994	<0.01	<0.01	<0.01	No Relaxation
34	Zinc as Zn	mg/l	IS3025(P-49)1994	<0.01	<0.01	<5.0	<15
35	Total Chromium as Cr <sup>+6</sup>	mg/l	IS3025(P-52)2003	<0.01	<0.01	<0.05	<1.0
36	Aluminium as Al	mg/l	IS3025(P-55)2003	<0.01	<0.01	0.5	1.0
37	Pesticides	mg/l	As per STP	<0.01	<0.01	--	No Relaxation
38	Dissolved Oxygen	mg/l	IS3025(P-38)1989	5.1	5.5	--	--
39	Oil & Grease	mg/l	IS3025(P-39)2021	<1.0	<1.0	--	--
40	Phosphates as PO <sub>4</sub>	mg/l	IS3025(P-31)1998	<0.01	<0.01	--	--
41	Percent Sodium	%	IS3025(P-45)1993	30.6	30.8	--	--
42	E-Coli	Per/100ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml
43	Total Coliforms	Per/100ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml
44	Fecal Coliforms	MPN/100ml	IS-1622-1981	Absent	Absent	--	--

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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)

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.

**Discipline: Chemical**

**Group: Water**

**Product Water**

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

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

**Date of Monitoring: 25.05.2023**

**Sample Registration Date: 26.05.2023**

**Analysis Starting Date: 27.05.2023**

**Analysis Completed Date: 30.05.2023**

**Issue Date: 31.05.2023**

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

**Sample Collected By: Ganesh**

## TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				PW-3	PW-4	ACCEPTABLE	PERMISSIBLE
1	pH	--	IS3025(P-11)2021	7.3	7.1	6.5- 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.0	1.0	1.0	5.0
3	Turbidity	NTU	IS3025(P-10)1984	0.4	0.3	1.0	5.0
4	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,328	1,352	--	--
5	Temperature	°C	--	21.7	27.5	--	--
6	Total Suspended Solids	mg/l	IS3025(P-17)1984	35	28	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	767	783	500	2000
8	Total Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	227	223	200	600
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	147	237	200	600
10	Calcium as Ca	mg/l	IS3025(P-40)1991	44	68	75	200
11	Magnesium as Mg	mg/l	IS3025(P-40)1991	26	35	30	100
12	Free Residual Chlorine	mg/l	IS3025(P-26)1986	<0.1	<0.1	0.2	No Relaxation
13	Boron as B	mg/l	IS3025(P-57)2021	<0.1	<0.1	0.5	1.0
14	Calcium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	142	153	--	--
15	Magnesium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	116	107	--	--
16	Sodium as Na	mg/l	IS3025(P-45)1993	139	127	--	--
17	Potassium as K	mg/l	IS3025(P-45)1993	57	45	--	--
18	Chloride as Cl	mg/l	IS3025(P-32)1988	172	168	250	1000

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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	87.2	75.4	200	400
20	Nitrates as NO <sub>3</sub>	mg/l	IS3025(P-34)1988	21.5	29.9	45	No Relaxation
21	Chemical Oxygen Demand	mg/l	IS3025(P-58)2006	<5.0	<5.0	--	--
22	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	IS3025(P-44)1993	<3.0	<3.0	--	--
23	Iron as Fe	mg/l	IS3025(P-53)2003	0.14	0.17	<0.3	No Relaxation
24	Fluoride as F	mg/l	IS3025(P-60)2008	0.86	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	5.1	5.2	--	--
39	Oil & Grease	mg/l	IS3025(P-39)2021	<1.0	<1.0	--	--
40	Phosphates as PO <sub>4</sub>	mg/l	IS3025(P-31)1998	<0.01	<0.01	--	--
41	Percent Sodium	%	IS3025(P-45)1993	31.4	30.9	--	--
42	E-Coli	Per/100ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml
43	Total Coliforms	Per/100ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml
44	Fecal Coliforms	MPN/100ml	IS-1622-1981	Absent	Absent	--	--

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## 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 Water**

**Location-5: Piezo Well No-5- Water –Near CAAQMS (PW-5)**

**Date of Monitoring: 25.05.2023**

**Sample Registration Date: 26.05.2023**

**Analysis Starting Date: 27.05.2023**

**Analysis Completed Date: 30.05.2023**

**Issue Date: 31.05.2023**

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

**Sample Collected By: Ganesh**

## TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS	STANDARDS AS PER IS:10500	
				PW-5	ACCEPTABLE	PERMISSIBLE
1	pH	--	IS3025(P-11)2021	7.8	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	0.5	1.0	5.0
4	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,474	--	--
5	Temperature	°C	--	21.6	--	--
6	Total Suspended Solids	mg/l	IS3025(P-17)1984	47	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	879	500	2000
8	Total Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	257	200	600
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	224	200	600
10	Calcium as Ca	mg/l	IS3025(P-40)1991	34	75	200
11	Magnesium as Mg	mg/l	IS3025(P-40)1991	46	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	126	--	--
15	Magnesium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	105	--	--
16	Sodium as Na	mg/l	IS3025(P-45)1993	116	--	--
17	Potassium as K	mg/l	IS3025(P-45)1993	18	--	--
18	Chloride as Cl	mg/l	IS3025(P-32)1988	161	250	1000

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

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

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



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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	65.7	200	400
20	Nitrates as NO <sub>3</sub>	mg/l	IS3025(P-34)1988	36.3	45	No Relaxation
21	Chemical Oxygen Demand	mg/l	IS3025(P-58)2006	<5.0	--	--
22	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	IS3025(P-44)1993	<3.0	--	--
23	Iron as Fe	mg/l	IS3025(P-53)2003	0.24	<0.3	No Relaxation
24	Fluoride as F	mg/l	IS3025(P-60)2008	0.76	<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	32.6	--	--
42	E-Coli	Per/100ml	ISO 9308-1	Absent	Absent/100 ml	Absent/100 ml
43	Total Coliforms	Per/100ml	ISO 9308-1	Absent	Absent/100 ml	Absent/100 ml
44	Fecal Coliforms	MPN/100ml	IS-1622-1981	Absent	--	--

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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-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: Water**

**Product Water**

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

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

**Date of Monitoring: 16.08.2023**

**Sample Registration Date: 17.08.2023**

**Analysis Starting Date: 17.08.2023**

**Analysis Completed Date: 23.08.2023**

**Issue Date: 23.08.2023**

**Lab Ref: SEPL/ES/SEILEILP/08-23/0001**

**Sample Collected By: Ganesh**

## TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				PW-1	PW-2	ACCEPTABLE	PERMISSIBLE
1	pH	--	IS3025(P-11)2021	7.0	7.4	6.5- 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.0	1.0	1.0	5.0
3	Turbidity	NTU	IS3025(P-10)1984	0.1	0.2	1.0	5.0
4	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,374	1,538	--	--
5	Temperature	°C	--	28.4	26.2	--	--
6	Total Suspended Solids	mg/l	IS3025(P-17)1984	21	28	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	786	761	500	2000
8	Total Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	253	259	200	600
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	161	174	200	600
10	Calcium as Ca	mg/l	IS3025(P-40)1991	35.2	45.7	75	200
11	Magnesium as Mg	mg/l	IS3025(P-40)1991	16.7	24.3	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	163	141	--	--
15	Magnesium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	98	135	--	--
16	Sodium as Na	mg/l	IS3025(P-45)1993	135	147	--	--
17	Potassium as K	mg/l	IS3025(P-45)1993	11	18	--	--
18	Chloride as Cl	mg/l	IS3025(P-32)1988	124	152	250	1000

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

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

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



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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	65.5	71.9	200	400
20	Nitrates as NO <sub>3</sub>	mg/l	IS3025(P-34)1988	14.7	25.2	45	No Relaxation
21	Chemical Oxygen Demand	mg/l	IS3025(P-58)2006	<5.0	<5.0	--	--
22	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	IS3025(P-44)1993	<3.0	<3.0	--	--
23	Iron as Fe	mg/l	IS3025(P-53)2003	0.06	0.10	<0.3	No Relaxation
24	Fluoride as F	mg/l	IS3025(P-60)2008	0.63	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	5.0	4.9	--	--
39	Oil & Grease	mg/l	IS3025(P-39)2021	<1.0	<1.0	--	--
40	Phosphates as PO <sub>4</sub>	mg/l	IS3025(P-31)1998	<0.01	<0.01	--	--
41	Percent Sodium	%	IS3025(P-45)1993	32.6	28.2	--	--
42	E-Coli	Per/100ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml
43	Total Coliforms	Per/100ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml
44	Fecal Coliforms	MPN/100ml	IS-1622-1981	Absent	Absent	--	--

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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

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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: Water**

**Product Water**

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

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

**Date of Monitoring: 16.08.2023**

**Sample Registration Date: 17.08.2023**

**Analysis Starting Date: 17.08.2023**

**Analysis Completed Date: 23.08.2023**

**Issue Date: 23.08.2023**

**Lab Ref: SEPL/ES/SEILEILP/08-23/0002**

**Sample Collected By: Ganesh**

## TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				PW-3	PW-4	ACCEPTABLE	PERMISSIBLE
1	pH	--	IS3025(P-11)2021	7.6	7.5	6.5- 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.0	1.0	1.0	5.0
3	Turbidity	NTU	IS3025(P-10)1984	0.3	0.2	1.0	5.0
4	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,574	1625	--	--
5	Temperature	°C	--	28.1	36.3	--	--
6	Total Suspended Solids	mg/l	IS3025(P-17)1984	47	36	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	653	528	500	2000
8	Total Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	256	247	200	600
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	135	158	200	600
10	Calcium as Ca	mg/l	IS3025(P-40)1991	48	50	75	200
11	Magnesium as Mg	mg/l	IS3025(P-40)1991	20	25	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	0.3	0.2	0.5	1.0
14	Calcium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	125	138	--	--
15	Magnesium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	128	115	--	--
16	Sodium as Na	mg/l	IS3025(P-45)1993	145	133	--	--
17	Potassium as K	mg/l	IS3025(P-45)1993	44	38	--	--
18	Chloride as Cl	mg/l	IS3025(P-32)1988	153	132	250	1000

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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-3	PW-4	ACCEPTABLE	PERMISSIBLE
19	Sulphates as SO <sub>4</sub>	mg/l	IS3025(P-24)1986	64.6	58.2	200	400
20	Nitrates as NO <sub>3</sub>	mg/l	IS3025(P-34)1988	28.2	34.3	45	No Relaxation
21	Chemical Oxygen Demand	mg/l	IS3025(P-58)2006	<5.0	<5.0	--	--
22	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	IS3025(P-44)1993	<3.0	<3.0	--	--
23	Iron as Fe	mg/l	IS3025(P-53)2003	0.15	0.18	<0.3	No Relaxation
24	Fluoride as F	mg/l	IS3025(P-60)2008	0.76	0.82	<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	4.9	4.8	--	--
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	32.7	26.3	--	--
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	--	--

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

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

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



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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 Water**

**Location-5: Piezo Well No-5-Water-Near CAAQMS (PW-5)**

**Date of Monitoring: 16.08.2023**

**Sample Registration Date: 17.08.2023**

**Analysis Starting Date: 17.08.2023**

**Analysis Completed Date: 23.08.2023**

**Issue Date: 23.08.2023**

**Lab Ref: SEPL/ES/SEILEILP/08-23/0003**

**Sample Collected By: Ganesh**

## TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS	STANDARDS AS PER IS:10500	
				PW-5	ACCEPTABLE	PERMISSIBLE
1	pH	--	IS3025(P-11)2021	7.6	6.5- 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.0	1.0	5.0
3	Turbidity	NTU	IS3025(P-10)1984	0.3	1.0	5.0
4	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,474	--	--
5	Temperature	°C	--	21.6	--	--
6	Total Suspended Solids	mg/l	IS3025(P-17)1984	47	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	879	500	2000
8	Total Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	242	200	600
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS3025(P-23)1986	212	200	600
10	Calcium as Ca	mg/l	IS3025(P-40)1991	32	75	200
11	Magnesium as Mg	mg/l	IS3025(P-40)1991	37	30	100
12	Free Residual Chlorine	mg/l	IS3025(P-26)1986	<0.1	0.2	No Relaxation
13	Boron as B	mg/l	IS3025(P-57)2021	0.3	0.5	1.0
14	Calcium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	140	--	--
15	Magnesium Hardness as CaCO <sub>3</sub>	mg/l	IS3025(P-40)1991	112	--	--
16	Sodium as Na	mg/l	IS3025(P-45)1993	103	--	--
17	Potassium as K	mg/l	IS3025(P-45)1993	20	--	--
18	Chloride as Cl	mg/l	IS3025(P-32)1988	148	250	1000

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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	53.8	200	400
20	Nitrates as NO <sub>3</sub>	mg/l	IS3025(P-34)1988	46.5	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	0.22	<0.3	No Relaxation
24	Fluoride as F	mg/l	IS3025(P-60)2008	0.62	<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	4.8	--	--
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	28.3	--	--
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	--	--

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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)

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

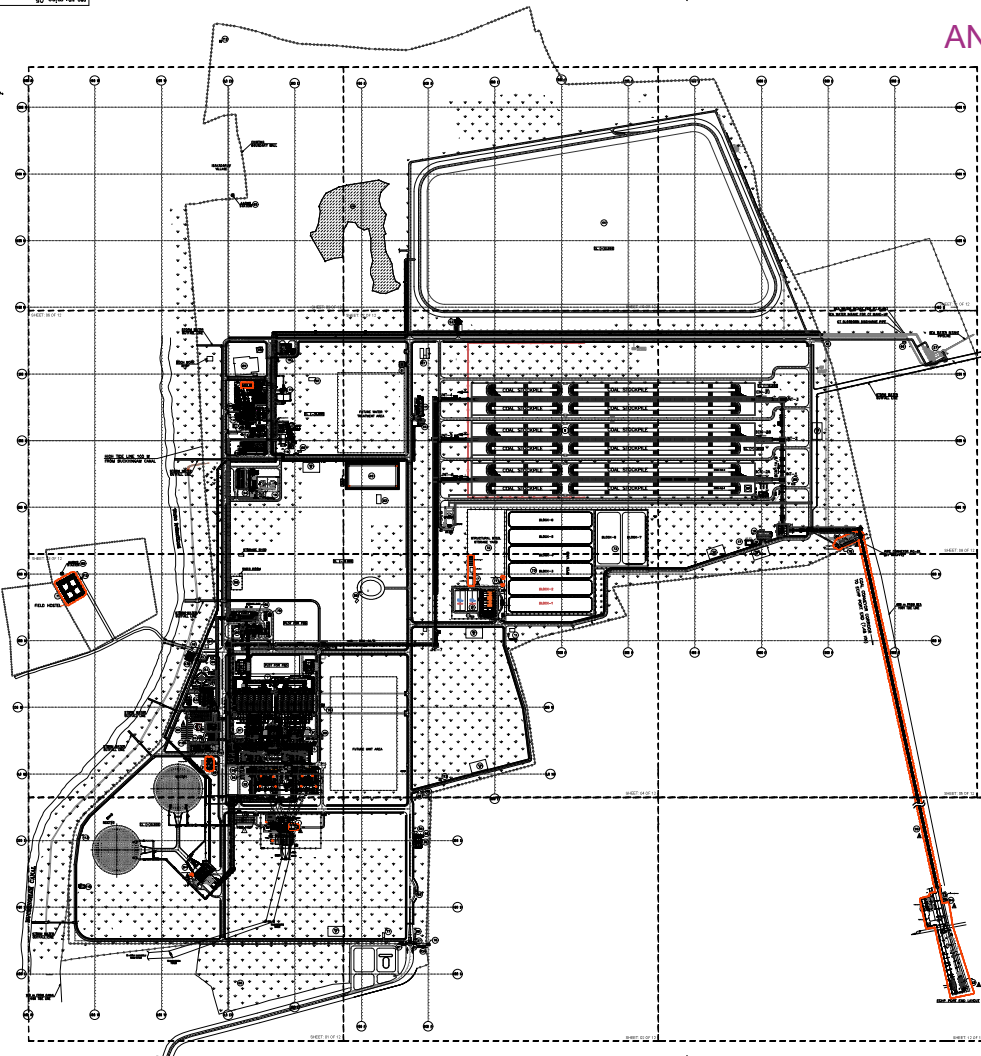
SEIL considers HSE as its core value and is committed to:

- 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.

Raghav Trivedi  
Chief Executive Officer

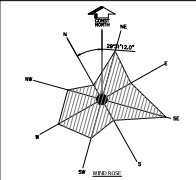
May 23rd, 2023



### ANNEXURE-XI

#### LIST OF BUILDING/EQUIPMENT

ID	DESCRIPTION	SIZE IN METERS	TOTAL AREA SQ. M
1	TOE & CONTROL ROOM WITH EXTENSION BLOCK	11.0x13.50	148.75
2	TRANSFER UNIT	22.0x13.50	297.00
3	POWER HOUSE BUILDING	73.5x12.50	918.75
4	WATER TOWER	16.0x16.00	256.00
5	2ND STOREY	16.0x16.00	256.00
6	ELECTROTECHNICAL	10.0x10.00	100.00
7	BOILER	10.0x10.00	100.00
8	CONTROL ROOM W/ TRANSFORMER ROOM	10.0x10.00	100.00
9	AIR WATER TOWER W/ PUMP HOUSE	10.0x10.00	100.00
10	WATER TOWER	10.0x10.00	100.00
11	DSP W/ CONTROL ROOM #1	10.0x10.00	100.00
12	WATER TOWER	10.0x10.00	100.00
13	PUMP HOUSE	10.0x10.00	100.00
14	WATER TOWER	10.0x10.00	100.00
15	2ND STOREY	10.0x10.00	100.00
16	WATER TOWER	10.0x10.00	100.00
17	WATER TOWER	10.0x10.00	100.00
18	WATER TOWER	10.0x10.00	100.00
19	WATER TOWER	10.0x10.00	100.00
20	WATER TOWER	10.0x10.00	100.00
21	WATER TOWER	10.0x10.00	100.00
22	WATER TOWER	10.0x10.00	100.00
23	WATER TOWER	10.0x10.00	100.00
24	WATER TOWER	10.0x10.00	100.00
25	WATER TOWER	10.0x10.00	100.00
26	WATER TOWER	10.0x10.00	100.00
27	WATER TOWER	10.0x10.00	100.00
28	WATER TOWER	10.0x10.00	100.00
29	WATER TOWER	10.0x10.00	100.00
30	WATER TOWER	10.0x10.00	100.00
31	WATER TOWER	10.0x10.00	100.00
32	WATER TOWER	10.0x10.00	100.00
33	WATER TOWER	10.0x10.00	100.00
34	WATER TOWER	10.0x10.00	100.00
35	WATER TOWER	10.0x10.00	100.00
36	WATER TOWER	10.0x10.00	100.00
37	WATER TOWER	10.0x10.00	100.00
38	WATER TOWER	10.0x10.00	100.00
39	WATER TOWER	10.0x10.00	100.00
40	WATER TOWER	10.0x10.00	100.00
41	WATER TOWER	10.0x10.00	100.00
42	WATER TOWER	10.0x10.00	100.00
43	WATER TOWER	10.0x10.00	100.00
44	WATER TOWER	10.0x10.00	100.00
45	WATER TOWER	10.0x10.00	100.00
46	WATER TOWER	10.0x10.00	100.00
47	WATER TOWER	10.0x10.00	100.00
48	WATER TOWER	10.0x10.00	100.00
49	WATER TOWER	10.0x10.00	100.00
50	WATER TOWER	10.0x10.00	100.00
51	WATER TOWER	10.0x10.00	100.00
52	WATER TOWER	10.0x10.00	100.00
53	WATER TOWER	10.0x10.00	100.00
54	WATER TOWER	10.0x10.00	100.00
55	WATER TOWER	10.0x10.00	100.00
56	WATER TOWER	10.0x10.00	100.00
57	WATER TOWER	10.0x10.00	100.00
58	WATER TOWER	10.0x10.00	100.00
59	WATER TOWER	10.0x10.00	100.00
60	WATER TOWER	10.0x10.00	100.00



**LEGEND**

PRESENT UNIT:  FENCE:

POWER UNIT:  PLANT BOUNDARY WALL:

PROPERTY LINE:  GREEN BELT:

OUT FILL / OP:  FLY ASH PILE MOUND:

ORANGE BACK:  FLY ASH SLOPER BANK:

NO.	DESCRIPTION	REMARKS
1	...	...
2	...	...
3	...	...
4	...	...
5	...	...
6	...	...
7	...	...
8	...	...
9	...	...
10	...	...
11	...	...
12	...	...
13	...	...
14	...	...
15	...	...
16	...	...
17	...	...
18	...	...
19	...	...
20	...	...

**NOTES**

1. ALL DIMENSIONS ARE IN METERS AND TO-DIMENSIONS ARE IN METERS UNLESS SPECIFIED OTHERWISE.

2. ALL DIMENSIONS ARE TO FACE UNLESS SPECIFIED OTHERWISE.

3. ALL DIMENSIONS ARE TO FACE UNLESS SPECIFIED OTHERWISE.

4. ALL DIMENSIONS ARE TO FACE UNLESS SPECIFIED OTHERWISE.

5. ALL DIMENSIONS ARE TO FACE UNLESS SPECIFIED OTHERWISE.

6. ALL DIMENSIONS ARE TO FACE UNLESS SPECIFIED OTHERWISE.

7. ALL DIMENSIONS ARE TO FACE UNLESS SPECIFIED OTHERWISE.

8. ALL DIMENSIONS ARE TO FACE UNLESS SPECIFIED OTHERWISE.

9. ALL DIMENSIONS ARE TO FACE UNLESS SPECIFIED OTHERWISE.

10. ALL DIMENSIONS ARE TO FACE UNLESS SPECIFIED OTHERWISE.

**FOR FACTORY INSPECTOR APPROVAL**

NO.	DATE	DESCRIPTION	BY	CHECKED	DATE	REVISIONS	REV.
1		...					
2		...					
3		...					
4		...					
5		...					
6		...					
7		...					
8		...					
9		...					
10		...					
11		...					
12		...					
13		...					
14		...					
15		...					
16		...					
17		...					
18		...					
19		...					
20		...					

SEMICOORP ENERGY INCORPORATED-PROJECTS

12, KEMUNGA ROAD, KARACHI, PAKISTAN

DATE: ...

SCALE: ...

PROJECT: ...

DRAWING NO: ...

BY: ...

CHECKED: ...

DATE: ...

THIS DRAWING AND SPECIFICATIONS ARE THE PROPERTY OF SEMICOORP AND SHALL NOT BE COPIED OR REPRODUCED IN ANY MANNER WITHOUT THEIR PERMISSION IN WRITING.

## ANNEXURE-XII



भारत सरकार

Government of India

वाणिज्य और उद्योग मंत्रालय

Ministry of Commerce &amp; Industry

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो)

Petroleum &amp; Explosives Safety Organisation (PESO)

डोर न. ७-२०-१३, किरलामपुडी लेआउट

विशाखापट्टनम- 530017

Door No. 7-20-13, Kirlampudi Layout,  
Visakhapatnam - 530017E-mail : [dyccevizag@explosives.gov.in](mailto:dyccevizag@explosives.gov.in)

Phone/Fax No : 0891-2722257

संख्या /No. : P/HQ/AP/15/4066 (P340586)

दिनांक /Dated : 12/12/2018

सेवा में /To :

M/s. SEMBCORP GAYATRI POWER LIMITED,  
NA,  
Painampuram,  
Taluka: Muthukur,  
District: Nellore,  
State: Andhra Pradesh  
PIN: 999999

12 DEC 2018

विषय /Sub : Survey No, 85, NA, Sivaramapuram, Thotapalli Guduru, District: NELLORE, State: Andhra Pradesh, PIN: 524344 में स्थित विद्यमान पेट्रोलियम वर्ग B,C अधिष्ठापन में अनुज्ञप्ति सं P/HQ/AP/15/4066 (P340586) के नवीकरण के संदर्भ में ।  
Existing Petroleum Class B,C Installation at Survey No, 85, NA, Sivaramapuram, Thotapalli Guduru, District: NELLORE, State: Andhra Pradesh, PIN: 524344 - Licence No. P/HQ/AP/15/4066 (P340586) - Renewal regarding.

महोदय /Sir  
(6).

कृपया आपके पत्र क्रमांक SGPL/O&M/2018/15 दिनांक 26/11/2018 का अवलोकन करें ।  
Please refer to your letter No.: SGPL/O&M/2018/15, dated 26/11/2018

अनुज्ञप्ति संख्या P/HQ/AP/15/4066 (P340586) दिनांक 28/12/2016 को दिनांक 31/12/2023 तक नवीनीकृत कर इस पत्र के साथ अर्पित की जा रही है ।

Licence No. P/HQ/AP/15/4066 (P340586) dated 28/12/2016 is forwarded herewith duly renewed upto 31/12/2023.

कृपया पेट्रोलियम नियम 2002 के अधीन बनाए गए नियम 148 में दी गई प्रक्रिया का कड़ाई से पालन करें । अनुज्ञप्ति के नवीकरण हेतु समस्त दस्तावेजों को अनुज्ञप्ति की वैधता समाप्त होने की तिथि से कम से कम 30 दिन पूर्व कार्यालय को प्रेषित 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,

((जे.सर्कार)  
(J. Sarkar)

उप मुख्य विस्फोटक नियंत्रक  
Dy. Chief Controller of Explosives  
विशाखापट्टनम/Visakhapatnam

(अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क तथा अन्य 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>)

1387

प्ररूप XV  
(प्रथम अनुसूची का अनुच्छेद 6 देखिए)  
FORM XV  
(see Article 6 of the First Schedule)

अधिष्ठापनों में पेट्रोलियम के आयात और भंडारकरण के लिए अनुज्ञप्ति  
LICENCE TO IMPORT AND STORE PETROLEUM IN AN INSTALLATION

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

फीस रूप्य (Fee Rs.) 22750/- per year

M/s. SEMBCORP GAYATRI POWER LIMITED, NA, Painampuram, Taluka: Muthukur, District: Nellore, State: Andhra Pradesh, PIN: 999999 को केवल इसमें यथा विनिर्दिष्ट वर्ग और मात्राओं में पेट्रोलियम 6500.00 KL आयात करने के लिए और उसका, नीचे वर्णित और अनुमोदित नक्शा संख्या P/HQ/AP/15/4066(P340586) तारीख 25/08/2015 जो कि इससे उपाबद्ध है, में दिखाए गए स्थान पर भण्डारकरण के लिए पेट्रोलियम अधिनियम, 1934 के उपबंधों या उसके अधीन बनाए गए नियमों तथा इस अनुज्ञप्ति की अतिरिक्त शर्तों के अधीन रहते हुए, यह अनुज्ञप्ति अनुदत्त की जाती है।

Licence is hereby granted to M/s. SEMBCORP GAYATRI POWER LIMITED, NA, Painampuram, Taluka: Muthukur, District: Nellore, State: Andhra Pradesh, PIN: 999999 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 25/08/2015 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 अनुज्ञप्ति 31st day of December 2018 तक प्रवृत्त रहेगी।  
The Licence shall remain in force till the 31st day of December 2018

पेट्रोलियम का विवरण /Description of Petroleum	अनुज्ञप्त 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  
*Sax*

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

अनुज्ञप्त परिसर जिसकी विन्यास सीमाएं अन्य विशिष्टायां संलग्न अनुमोदित नक्शों में दिखाई गई है Survey No: 85, NA, Sivaramapuram, Thotapalli Guduru, District: NELLORE, State: Andhra Pradesh, PIN: 524344 स्थान पर अवस्थित है तथा उसमें निम्नलिखित 1 Above Ground tank(s) for CLASS B , 2 Above Ground tank(s) for CLASS C , सम्मिलित 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, Thotapalli Guduru, District: NELLORE, State: Andhra Pradesh, PIN: 524344 and consists of 1 Above Ground tank(s) for CLASS B , 2 Above Ground tank(s) for CLASS C , together with connected facilities.



नवीनीकरण के प्रमाण के लिए स्थान  
SPACE FOR ENDORSEMENT OF RENEWALS

<p>पेट्रोलियम अधिनियम, १९३४ के उपबन्धों या उनके अधीन बनाए गए नियमों या इस अनुज्ञप्ति की शर्तों का उल्लंघन न होने की दशा में यह अनुज्ञप्ति फिक्स 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.</p>	<p>नवीकरण की तारीख Date of Renewal</p>	<p>समाप्ति की तारीख Date of Expiry of license</p>	<p>अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature and office stamp of the licencing authority.</p>
---	--	---	--

1).

30/11/2015

31/12/2018

Sd/-  
Dr. R. K. Rathore  
Dy. Chief Controller of Explosives  
Visakhapatnam

12/12/18

Renewed upto...31/12/2023

Dy. Chief Controller of Explosives

Visakhapatnam

यदि अनुज्ञप्ति परिसर इसमें उपाबद्ध विवरण और शर्तों के अनुरूप नहीं पाए जाते हैं और जिन नियमों और शर्तों के अधीन यह अनुज्ञप्ति मंजूर की गई है उनमें से किसी का उल्लंघन होने की दशा में यह अनुज्ञप्ति रद्द की जा सकती है और अनुज्ञप्तिधारी 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 प्रत्येक पश्चातवर्ती 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, दण्डनीय 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.



# SPECTRA ENVIROTECH PVT LTD

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

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

## TEST REPORT

ANNEXURE-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 2023

**Sampling Location-1:** Main Gate

**Sample Registration Date:** 26.05.2023

**Issue Date:** 31.05.2023

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

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	25.05.2023	00:00	41.6
2		01:00	37.2
3		02:00	39.7
4		03:00	45.3
5		04:00	41.2
6		05:00	38.7
7		06:00	53.4
8		07:00	58.5
9		08:00	46.8
10		09:00	55.3
11		10:00	52.5
12		11:00	54.8
13		12:00	47.4
14		13:00	53.2
15		14:00	51.7
16		15:00	53.6
17		16:00	56.4
18		17:00	43.5
19		18:00	47.2
20		19:00	42.6
21		20:00	45.3
22		21:00	41.9
23		22:00	44.4
24		23:00	47.2

**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 : 28.02.2024

K.S.Laj  
Verified by



DA  
Authorized by  
Managing Director

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

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

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





# SPECTRA ENVIROTECH PVT LTD

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

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

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-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 2023

**Sampling Location-2:** BTG Area

**Sample Registration Date:** 26.05.2023

**Issue Date:** 31.05.2023

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

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	25.05.2023	00:00	32.7
2		01:00	43.5
3		02:00	47.3
4		03:00	48.4
5		04:00	42.2
6		05:00	38.6
7		06:00	44.3
8		07:00	50.5
9		08:00	49.8
10		09:00	52.7
11		10:00	53.4
12		11:00	55.6
13		12:00	51.3
14		13:00	46.2
15		14:00	54.9
16		15:00	51.5
17		16:00	48.4
18		17:00	53.6
19		18:00	44.3
20		19:00	38.2
21		20:00	47.6
22		21:00	42.7
23		22:00	43.5
24		23:00	45.3

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

**Instrument Details:** Sound Level Meter

Make/Model : Standard/SC-05

Serial No : 200525272

Calibration Due : 28.02.2024

K.S.Laj  
Verified by



DA  
Authorized by  
Managing Director

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

**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.

**Group:** Atmospheric Pollution

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

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

**Sample Registration Date:** 26.05.2023

**Issue Date:** 31.05.2023

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

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	25.05.2023	00:00	45.4
2		01:00	47.9
3		02:00	42.7
4		03:00	46.3
5		04:00	49.2
6		05:00	42.6
7		06:00	53.5
8		07:00	45.7
9		08:00	56.3
10		09:00	51.6
11		10:00	55.4
12		11:00	52.8
13		12:00	63.2
14		13:00	61.8
15		14:00	58.3
16		15:00	56.5
17		16:00	54.3
18		17:00	51.4
19		18:00	58.6
20		19:00	48.2
21		20:00	45.4
22		21:00	43.6
23		22:00	41.3
24		23:00	44.5

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

**Instrument Details:** Sound Level Meter

Make/Model : Lutron /SL-34001

Serial No : Q6352440

Calibration Due : 28.02.2024

K.S.Laj  
Verified by



DA  
Authorized by  
Managing Director

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

**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.

**Group:** Atmospheric Pollution

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

**Sampling Location-4:** Varakavipudi Village

**Sample Registration Date:** 26.05.2023

**Issue Date:** 31.05.2023

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

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	25.05.2023	00:00	34.2
2		01:00	32.4
3		02:00	36.6
4		03:00	35.3
5		04:00	33.5
6		05:00	37.7
7		06:00	43.4
8		07:00	45.5
9		08:00	41.3
10		09:00	46.2
11		10:00	42.6
12		11:00	44.2
13		12:00	48.9
14		13:00	44.5
15		14:00	43.3
16		15:00	52.6
17		16:00	44.7
18		17:00	47.4
19		18:00	49.2
20		19:00	31.5
21		20:00	34.3
22		21:00	36.7
23		22:00	42.4
24		23:00	35.9

**Note:** As per 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 : 28.02.2024

K.S.Laj  
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Authorized by  
Managing Director

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

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

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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.

**Group:** Atmospheric Pollution

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

**Sampling Location-5:** Sivaramapuram Village

**Sample Registration Date:** 26.05.2023

**Issue Date:** 31.05.2023

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

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	25.05.2023	00:00	36.6
2		01:00	34.5
3		02:00	32.3
4		03:00	33.7
5		04:00	35.4
6		05:00	38.3
7		06:00	41.5
8		07:00	46.4
9		08:00	42.3
10		09:00	35.7
11		10:00	47.6
12		11:00	37.2
13		12:00	32.5
14		13:00	41.3
15		14:00	36.7
16		15:00	39.9
17		16:00	41.8
18		17:00	46.6
19		18:00	43.4
20		19:00	41.3
21		20:00	36.2
22		21:00	38.4
23		22:00	32.9
24		23:00	36.1

Note: As per 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 : 28.02.2024

K.S.Laj  
Verified by



DA  
Authorized by  
Managing Director

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

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





# SPECTRA ENVIROTECH PVT LTD

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

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

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-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 2023

**Sampling Location-6:** Chandrasekharapuram Village

**Sample Registration Date:** 26.05.2023

**Issue Date:** 31.05.2023

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

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	25.05.2023	00:00	33.1
2		01:00	34.6
3		02:00	39.5
4		03:00	37.7
5		04:00	33.5
6		05:00	35.3
7		06:00	42.5
8		07:00	39.4
9		08:00	40.2
10		09:00	42.4
11		10:00	34.6
12		11:00	43.9
13		12:00	46.8
14		13:00	44.5
15		14:00	39.3
16		15:00	43.6
17		16:00	45.4
18		17:00	42.7
19		18:00	41.3
20		19:00	39.6
21		20:00	36.1
22		21:00	42.7
23		22:00	38.5
24		23:00	35.8

**Note:** As per 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 : 28.02.2024

K.S.Laj  
Verified by



DA  
Authorized by  
Managing Director

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

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

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





# SPECTRA ENVIROTECH PVT LTD

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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 2023

**Date of Sampling:** 25-05-2023

**Sample Registration Date:** 26.05.2023

**Issue Date:** 31.05.2023

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

## TEST RESULT

Particulars	Main Gate dB (A)	BTG Area dB (A)	Coal Handling Plant dB (A)	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	37.2	32.7	41.3	31.5	32.3	33.1
Maximum	58.5	55.6	63.2	52.6	47.6	46.8
Average	47.4	46.9	50.6	41.0	38.6	39.7

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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







# 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.

**Group:** Atmospheric Pollution

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

**Sampling Location-1:** Main Gate

**Sample Registration Date:** 17.08.2023

**Issue Date:** 23.08.2023

**Lab Ref:** SEPL/ES/SEILEILP/08-23/0001

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	16.08.2023	00:00	45.5
2		01:00	39.6
3		02:00	35.3
4		03:00	46.4
5		04:00	44.8
6		05:00	31.2
7		06:00	38.6
8		07:00	41.3
9		08:00	35.5
10		09:00	43.4
11		10:00	51.7
12		11:00	54.2
13		12:00	49.5
14		13:00	63.1
15		14:00	58.4
16		15:00	65.2
17		16:00	59.8
18		17:00	44.3
19		18:00	46.7
20		19:00	45.5
21		20:00	48.4
22		21:00	42.3
23		22:00	54.6
24		23:00	42.3

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

**Instrument Details:** Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097640

Calibration Due : 28.02.2024

K.S.Laj  
Verified by



DA  
Authorized by  
Managing Director

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

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

**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.

**Group:** Atmospheric Pollution

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

**Sampling Location-2:** BTG Area

**Sample Registration Date:** 17.08.2023

**Issue Date:** 23.08.2023

**Lab Ref:** SEPL/ES/SEILEILP/08-23/0002

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	16.08.2023	00:00	38.5
2		01:00	41.3
3		02:00	45.6
4		03:00	46.7
5		04:00	43.1
6		05:00	39.2
7		06:00	48.5
8		07:00	51.3
9		08:00	47.6
10		09:00	55.4
11		10:00	52.3
12		11:00	51.5
13		12:00	48.9
14		13:00	45.7
15		14:00	57.4
16		15:00	53.6
17		16:00	44.2
18		17:00	56.8
19		18:00	48.5
20		19:00	47.3
21		20:00	45.4
22		21:00	41.1
23		22:00	43.7
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 : Standard/SC-05

Serial No : 200525272

Calibration Due : 28.02.2024

K.S.Laj  
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Managing Director

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

**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.

**Group:** Atmospheric Pollution

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

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

**Sample Registration Date:** 17.08.2023

**Issue Date:** 23.08.2023

**Lab Ref:** SEPL/ES/SEILEILP/08-23/0003

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	16.08.2023	00:00	48.4
2		01:00	35.8
3		02:00	41.3
4		03:00	36.1
5		04:00	44.6
6		05:00	42.7
7		06:00	55.2
8		07:00	47.9
9		08:00	58.5
10		09:00	53.4
11		10:00	57.1
12		11:00	54.6
13		12:00	63.3
14		13:00	61.8
15		14:00	60.7
16		15:00	58.2
17		16:00	56.4
18		17:00	53.5
19		18:00	60.3
20		19:00	55.9
21		20:00	47.6
22		21:00	45.1
23		22:00	41.2
24		23:00	43.8

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

**Instrument Details:** Sound Level Meter

Make/Model : Lutron /SL-34001

Serial No : Q6352440

Calibration Due : 28.02.2024

K.S.Laj  
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Authorized by  
Managing Director

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

**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 2023

**Sampling Location-4:** Varakavipudi Village

**Sample Registration Date:** 17.08.2023

**Issue Date:** 23.08.2023

**Lab Ref:** SEPL/ES/SEILEILP/08-23/0004

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	16.08.2023	00:00	37.8
2		01:00	35.5
3		02:00	38.7
4		03:00	40.4
5		04:00	36.3
6		05:00	39.6
7		06:00	42.2
8		07:00	47.1
9		08:00	41.9
10		09:00	43.8
11		10:00	35.3
12		11:00	46.4
13		12:00	42.5
14		13:00	46.2
15		14:00	36.7
16		15:00	41.6
17		16:00	46.9
18		17:00	41.1
19		18:00	38.8
20		19:00	42.2
21		20:00	34.3
22		21:00	31.7
23		22:00	42.8
24		23:00	38.1

**Note:** As per 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 : 28.02.2024

K.S.Laj  
Verified by



DA  
Authorized by  
Managing Director

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

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

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# SPECTRA ENVIROTECH PVT LTD

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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),TP Gudur (M),

SPSR Nellore (Dist.) -524344.

**Group:** Atmospheric Pollution

**Sample Registration Date:** 17.08.2023

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

**Issue Date:**23.08.2023

**Sampling Location-5:** Sivaramapuram Village

**Lab Ref:** SEPL/ES/SEILEILP/08-23/0005

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	16.08.2023	00:00	39.8
2		01:00	36.5
3		02:00	35.4
4		03:00	37.9
5		04:00	32.6
6		05:00	40.5
7		06:00	41.2
8		07:00	38.4
9		08:00	36.8
10		09:00	42.5
11		10:00	37.7
12		11:00	36.6
13		12:00	43.5
14		13:00	45.2
15		14:00	37.8
16		15:00	31.4
17		16:00	34.6
18		17:00	42.9
19		18:00	38.2
20		19:00	44.7
21		20:00	38.3
22		21:00	32.5
23		22:00	37.9
24		23:00	32.8

**Note:** As per 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 : 28.02.2024

K.S.Laj  
Verified by



DA  
Authorized by  
Managing Director

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

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

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





# SPECTRA ENVIROTECH PVT LTD

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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 2023

**Sampling Location-6:** Chandrasekharapuram Village

**Sample Registration Date:** 17.08.2023

**Issue Date:** 23.08.2023

**Lab Ref:** SEPL/ES/SEILEILP/08-23/0006

## TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	16.08.2023	00:00	31.4
2		01:00	39.7
3		02:00	35.2
4		03:00	41.5
5		04:00	34.6
6		05:00	32.4
7		06:00	39.1
8		07:00	41.3
9		08:00	34.2
10		09:00	37.8
11		10:00	36.6
12		11:00	32.4
13		12:00	42.2
14		13:00	40.5
15		14:00	35.7
16		15:00	39.9
17		16:00	33.3
18		17:00	37.6
19		18:00	38.1
20		19:00	35.5
21		20:00	32.2
22		21:00	36.8
23		22:00	33.3
24		23:00	31.6

**Note:** As per 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 : 28.02.2024

K.S.Laj  
Verified by



DA  
Authorized by  
Managing Director

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

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

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





# SPECTRA ENVIROTECH PVT LTD

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

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

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-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 2023

**Date of Sampling:** 16-08-2023

**Sample Registration Date:** 17.08.2023

**Issue Date:** 23.08.2023

**Lab Ref:** SEPL/ES/SEILEILP/08-23/0007

## 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	31.2	38.2	35.8	31.7	31.4	31.4
Maximum	65.2	57.4	63.3	47.1	45.2	42.2
Average	46.9	47.1	50.9	40.5	38.1	36.3

K.S.Laj  
Verified by



DA  
Authorized by  
Managing Director

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

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## TEST REPORT

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 2023

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

**Sample Registration Date:** 29.04.2023

**Issue Date :** 02.05.2023

**Lab Ref :** SEPL/ES/SEILEILP/04-23/0001

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

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
06.04.2023	33.5	23.2	8.5	7.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
07.04.2023	35.2	25.6	8.4	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.04.2023	30.1	25.4	9.5	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.04.2023	35.6	25.1	9.7	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.04.2023	29.1	20.0	9.1	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.04.2023	28.7	21.6	9.6	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.04.2023	34.6	19.5	9.8	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.04.2023	35.8	26.2	9.1	8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>28.7</b>	<b>19.5</b>	<b>8.4</b>	<b>7.4</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Max</b>	<b>35.8</b>	<b>26.2</b>	<b>9.8</b>	<b>8.7</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Avg.</b>	<b>32.8</b>	<b>23.3</b>	<b>9.2</b>	<b>8.0</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>98 Percentile</b>	<b>35.8</b>	<b>26.1</b>	<b>9.8</b>	<b>8.7</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

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

### Instruments Details:

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

K.S.Laj  
Verified by



DBA  
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 2023

Location-2: Sivarampuram village

Sample Registration Date: 29.04.2023

Issue Date: 02.05.2023

Lab Ref: SEPL/ES/SEILEILP/04-23/0002

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
06.04.2023	35.6	18.2	7.6	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
07.04.2023	34.9	23.1	8.2	7.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.04.2023	30.2	19.2	8.5	6.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.04.2023	32.5	23.5	8.3	7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.04.2023	33.6	25.8	8.4	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.04.2023	35.1	20.1	8.6	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.04.2023	34.5	24.5	8.1	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.04.2023	35.7	25.6	9	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	30.2	18.2	7.6	6.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	35.7	25.8	9	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	34.0	22.5	8.3	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	35.7	20.1	18.3	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	2.0

### Instruments Details:

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

### Instruments Details:

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

K.S.Laj  
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DBA  
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.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – April 2023

Location-3: Chandrasekharapuram Village

Sample Registration Date: 29.04.2023

Issue Date: 02.05.2023

Lab Ref: SEPL/ES/SEILEILP/04-23/0003

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
06.04.2023	29.2	22.6	7.5	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
07.04.2023	28.6	24.6	7.2	7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.04.2023	35.7	27.1	7.9	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.04.2023	33.3	20.6	8.1	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.04.2023	35.1	22.9	9.3	8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.04.2023	28.3	22.0	8.2	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.04.2023	35.8	25.7	7.3	6.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.04.2023	30.2	19.2	8.1	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	28.3	19.2	7.2	6.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	35.8	27.1	9.3	8.0	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	32.0	23.1	8.0	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	35.8	26.9	9.1	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 / 220732  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2024

### Instruments Details:

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

K.S.Laj  
Verified by



DBA  
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.

**Discipline:** Chemical

**Group:** Atmospheric Pollution

**Product:** Ambient Air Quality Monitoring – April 2023

**Location-4:** Varakavipudi Village

**Sample Registration Date:** 29.04.2023

**Issue Date:** 02.05.2023

**Lab Ref:** SEPL/ES/SEILEILP/04-23/0004

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

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
06.04.2023	35.6	23.8	7.3	6.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
07.04.2023	28.7	22.2	7.5	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.04.2023	31.2	23.5	8.2	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.04.2023	38.7	18.1	7.8	6.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.04.2023	33.1	20.3	8.1	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.04.2023	28.7	19.8	7.5	7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.04.2023	29.4	25.4	8.4	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.04.2023	35.8	25.5	7.5	6.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>28.7</b>	<b>18.1</b>	<b>7.3</b>	<b>6.8</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Max</b>	<b>38.7</b>	<b>25.5</b>	<b>8.4</b>	<b>7.5</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Avg.</b>	<b>32.7</b>	<b>22.3</b>	<b>7.8</b>	<b>7.1</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>98 Percentile</b>	<b>38.3</b>	<b>25.5</b>	<b>8.4</b>	<b>7.5</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

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

### Instruments Details:

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

K.S.Laj  
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Managing Director

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

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## SUMMARY OF AMBIENT AIR QUALITY - APRIL 2023

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>	28.7	30.2	28.3	28.7
	Maximum		35.8	35.7	35.8	38.7
	Average		32.8	34.0	32.0	32.7
	98 Percentile		35.8	35.7	35.8	38.3
PM <sub>2.5</sub>	Minimum		19.5	18.2	19.2	18.1
	Maximum		26.2	25.8	27.1	25.5
	Average		23.3	22.5	23.1	22.3
	98 Percentile		26.1	20.1	26.9	25.5
SO <sub>2</sub>	Minimum		8.4	7.6	7.2	7.3
	Maximum		9.8	9.0	9.3	8.4
	Average		9.2	8.3	8.0	7.8
	98 Percentile		9.8	18.3	9.1	8.4
NO <sub>x</sub>	Minimum		7.4	6.8	6.9	6.8
	Maximum		8.7	8.3	8.0	7.5
	Average		8.0	7.5	7.3	7.1
	98 Percentile		8.7	8.2	7.9	7.5

K.S.Laj  
Verified by



DBA  
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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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 2023

Location-1: Fire Station (Plant Site)

Sample Registration Date: 27.05.2023

Issue Date: 31.05.2023

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

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
04.05.2023	32.2	25.6	7.5	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
05.05.2023	28.5	21.3	7.2	7.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.05.2023	38.8	25.1	7.3	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.05.2023	25.3	22.4	8.4	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.05.2023	28.7	17.6	8.1	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.05.2023	37.4	33.2	7.6	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.05.2023	36.9	24.3	8.1	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.05.2023	32.2	28.8	7.7	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	25.3	17.6	7.2	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	38.8	33.2	8.4	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	32.5	24.7	7.7	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	38.6	32.6	8.4	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

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

### Instruments Details:

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

K.S.Laj  
Verified by



DBA  
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-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 – May 2023

Location-2: Sivarampuram village

Sample Registration Date: 27.05.2023

Issue Date: 31.05.2023

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

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
04.05.2023	33.5	28.4	8.6	6.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
05.05.2023	42.1	25.2	7.3	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.05.2023	27.2	21.5	8.5	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.05.2023	18.6	17.3	8.3	6.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.05.2023	26.3	21.6	8.1	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.05.2023	38.4	24.3	6.8	6.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.05.2023	43.8	29.4	8.7	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.05.2023	37.2	24.3	7.4	7.0	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	<b>18.6</b>	<b>17.3</b>	<b>6.8</b>	<b>6.3</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	<b>43.8</b>	<b>29.4</b>	<b>8.7</b>	<b>8.2</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	<b>33.3</b>	<b>24.0</b>	<b>7.9</b>	<b>7.0</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	<b>43.6</b>	<b>21.4</b>	<b>18.0</b>	<b>8.1</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	2.0

### Instruments Details:

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

### Instruments Details:

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

K.S.Laj  
Verified by



DBA  
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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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 2023

Location-3: Chandrasekharapuram Village

Sample Registration Date: 27.05.2023

Issue Date: 31.05.2023

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

Sample collected person details: S. Ganesh

## TEST RESULTS

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
04.05.2023	28.1	22.2	7.2	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
05.05.2023	24.5	17.4	8.5	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.05.2023	29.2	21.6	6.6	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.05.2023	25.4	22.7	7.1	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.05.2023	23.6	17.5	8.4	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.05.2023	26.8	24.2	8.4	6.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.05.2023	22.3	19.1	7.3	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.05.2023	21.5	16.3	7.9	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	<b>21.5</b>	<b>16.3</b>	<b>6.6</b>	<b>6.9</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	<b>29.2</b>	<b>24.2</b>	<b>8.5</b>	<b>8.5</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	<b>25.1</b>	<b>23.1</b>	<b>7.6</b>	<b>7.4</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	<b>29.0</b>	<b>24.0</b>	<b>8.5</b>	<b>8.4</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

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

### Instruments Details:

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

K.S.Laj  
Verified by



DBA  
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.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – May 2023

Location-4: Varakavipudi Village

Sample Registration Date: 27.05.2023

Issue Date: 31.05.2023

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

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
04.05.2023	25.8	22.5	7.2	6.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
05.05.2023	27.5	25.3	7.1	6.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.05.2023	24.2	21.7	6.5	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.05.2023	28.7	19.4	6.9	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.05.2023	22.4	18.6	7.5	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.05.2023	21.3	17.5	7.7	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.05.2023	23.6	19.3	7.1	6.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.05.2023	26.1	23.8	6.8	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	<b>21.3</b>	<b>17.5</b>	<b>6.5</b>	<b>6.2</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	<b>28.7</b>	<b>25.3</b>	<b>7.7</b>	<b>8.3</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	<b>24.9</b>	<b>21.0</b>	<b>7.1</b>	<b>7.2</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	<b>28.5</b>	<b>25.1</b>	<b>7.7</b>	<b>8.2</b>	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

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

### Instruments Details:

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

K.S.Laj  
Verified by



DSA  
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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## SUMMARY OF AMBIENT AIR QUALITY - MAY 2023

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>	25.3	18.6	21.5	21.3
	Maximum		38.8	43.8	29.2	28.7
	Average		32.5	33.3	25.1	24.9
	98 Percentile		38.6	43.6	29	28.5
PM <sub>2.5</sub>	Minimum		17.6	17.3	16.3	17.5
	Maximum		33.2	29.4	24.2	25.3
	Average		24.7	24.0	23.1	21.0
	98 Percentile		32.6	21.4	24	25.1
SO <sub>2</sub>	Minimum		7.2	6.8	6.6	6.5
	Maximum		8.4	8.7	8.5	7.7
	Average		7.73	7.9	7.6	7.1
	98 Percentile		8.4	18	8.5	7.7
NO <sub>x</sub>	Minimum		7.1	6.3	6.9	6.2
	Maximum		8.5	8.2	8.5	8.3
	Average		7.6	7.0	7.4	7.2
	98 Percentile		8.5	8.1	8.4	8.2

K.S.Laj  
Verified by



DBA  
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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## 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 2023

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

**Sample Registration Date:** 01.07.2023

**Issue Date:** 04.07.2023

**Lab Ref:** SEPL/ES/SEILEILP/06-23/0001

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

## TEST RESULT

Date Of Sampling	µg/m <sup>3</sup>				mg/m <sup>3</sup>	µg/m <sup>3</sup>				ng/m <sup>3</sup>		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
01.06.2023	35.8	25.6	7.9	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
02.06.2023	31.6	20.2	7.5	7.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.06.2023	33.4	27.9	7.2	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.06.2023	37.2	18.4	8.5	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.06.2023	28.3	15.3	8.1	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.06.2023	36.7	28.4	7.7	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.06.2023	30.5	22.6	8.6	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.06.2023	25.5	24.7	7	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.06.2023	35.4	29.8	6.3	6.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
30.06.2023	37.1	34.5	6.8	6.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>25.5</b>	<b>15.3</b>	<b>6.3</b>	<b>6.5</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Max</b>	<b>37.2</b>	<b>34.5</b>	<b>8.6</b>	<b>8.4</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Avg.</b>	<b>33.2</b>	<b>24.7</b>	<b>7.6</b>	<b>7.6</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>98 Percentile</b>	<b>37.2</b>	<b>33.7</b>	<b>8.6</b>	<b>8.4</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

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

### Instruments Details:

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

K.S.Laj  
Verified by



DBA  
Authorized by  
Managing Director

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

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

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# SPECTRA ENVIROTECH PVT LTD

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

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-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 2023

Location-2: Sivarampuram village

Sample Registration Date: 01.07.2023

Issue Date: 04.07.2023

Lab Ref: SEPL/ES/SEILEILP/06-23/0002

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
01.06.2023	35.7	25.9	8.3	6.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
02.06.2023	31.0	22.4	7.5	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.06.2023	36.4	28.7	8.1	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.06.2023	28.9	19.3	9.6	6.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.06.2023	27.6	14.5	8.8	7.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.06.2023	34.5	24.6	6.4	6.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.06.2023	38.2	20.1	8.2	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.06.2023	37.3	19.4	7.6	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.06.2023	26.4	21.2	7.2	6.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
30.06.2023	28.8	22.8	8	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	26.4	14.5	6.4	6.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	38.2	28.7	9.6	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	32.5	21.9	8.0	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	38.0	28.2	9.5	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	2.0

### Instruments Details:

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

### Instruments Details:

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

K.S.Laj  
Verified by



DA  
Authorized by  
Managing Director

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

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

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





# SPECTRA ENVIROTECH PVT LTD

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

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

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-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 2023

Location-3: Chandrasekharapuram Village

Sample Registration Date: 01.07.2023

Issue Date: 04.07.2023

Lab Ref: SEPL/ES/SEILEILP/06-23/0003

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
01.06.2023	29.3	21.9	7.5	7.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
02.06.2023	35.6	20.4	7.1	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.06.2023	33.7	25.7	6.8	7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.06.2023	30.2	17.5	6.6	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.06.2023	29.4	23.2	7.3	6.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.06.2023	23.6	15.8	7.4	6.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.06.2023	34.8	26.3	7.7	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.06.2023	27.5	28.4	7.2	7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.06.2023	36.4	31.5	6.1	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
30.06.2023	25.1	24.9	6.2	6.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	23.6	15.8	6.1	6.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	36.4	31.5	7.7	7.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	30.6	23.6	7.0	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	36.3	30.9	7.7	7.8	<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 / 220732  
Make : SSE (Shree Scientific Equipment)  
Calibration Due : 28.02.2024

### Instruments Details:

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

K.S.Laj  
Verified by



DBA  
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-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- June 2023

**Location-4:** Varakavipudi Village

**Sample Registration Date:** 01.07.2023

**Issue Date:** 04.07.2023

**Lab Ref:** SEPL/ES/SEILEILP/06-23/0004

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

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
01.06.2023	31.2	25.4	7.5	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
02.06.2023	35.3	20.8	8.2	6.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.06.2023	36.7	24.6	6.7	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.06.2023	29.5	21.5	7.4	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.06.2023	28.4	25.3	8.6	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.06.2023	32.1	19.7	7	6.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.06.2023	37.8	27.6	6.2	6.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.06.2023	26.4	22.2	6.4	6.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.06.2023	38.4	26.4	6.1	6.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
30.06.2023	27.8	22.9	6.6	6.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>26.4</b>	<b>19.7</b>	<b>6.1</b>	<b>6.2</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Max</b>	<b>38.4</b>	<b>27.6</b>	<b>8.6</b>	<b>7.4</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Avg.</b>	<b>32.4</b>	<b>23.6</b>	<b>7.1</b>	<b>6.8</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>98 Percentile</b>	<b>38.3</b>	<b>27.4</b>	<b>8.5</b>	<b>7.4</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

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

### Instruments Details:

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

K.S.Laj  
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DA  
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Managing Director

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

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

**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 2023

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>	25.5	26.4	23.6	26.4
	Maximum		37.2	38.2	36.4	38.4
	Average		33.2	32.5	30.6	32.4
	98 Percentile		37.2	38.0	36.3	38.3
PM <sub>2.5</sub>	Minimum		15.3	14.5	15.8	19.7
	Maximum		34.5	28.7	31.5	27.6
	Average		24.7	21.9	23.6	23.6
	98 Percentile		33.7	28.2	30.9	27.4
SO <sub>2</sub>	Minimum		6.3	6.4	6.1	6.1
	Maximum		8.6	9.6	7.7	8.6
	Average		7.6	8.0	7.0	7.1
	98 Percentile		8.6	9.5	7.7	8.5
NO <sub>x</sub>	Minimum		6.5	6.1	6.4	6.2
	Maximum		8.4	8.4	7.8	7.4
	Average		7.6	7.1	7.1	6.8
	98 Percentile		8.4	8.3	7.8	7.4

K.S.Laj  
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DBA  
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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- July 2023

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

**Sample Registration Date:** 31.07.2023

**Issue Date:** 03.08.2023

**Lab Ref:** SEPL/ES/SEILEILP/07-23/0001

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

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
06.07.2023	39.5	27.3	7.2	8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
07.07.2023	28.8	25.8	7.7	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.07.2023	35.2	34.2	7.8	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.07.2023	32	26.1	8.2	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.07.2023	24.4	19.6	8.5	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.07.2023	33.6	30.7	7.9	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.07.2023	26.1	21.4	8.4	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.07.2023	25.3	23.9	7.3	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>24.4</b>	<b>19.6</b>	<b>7.2</b>	<b>7.1</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Max</b>	<b>39.5</b>	<b>34.2</b>	<b>8.5</b>	<b>8.3</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Avg.</b>	<b>30.6</b>	<b>26.1</b>	<b>7.9</b>	<b>7.7</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>98 Percentile</b>	<b>38.9</b>	<b>33.7</b>	<b>8.5</b>	<b>8.3</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details :

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

### Instruments Details:

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

K.S.Laj  
Verified by



DBA  
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.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring- July 2023

Location-2: Sivarampuram village

Sample Registration Date: 30.07.2023

Issue Date: 03.08.2023

Lab Ref: SEPL/ES/SEILEILP/07-23/0002

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
06.07.2023	30.2	25.9	8.6	6.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
07.07.2023	35.5	27.3	7.3	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.07.2023	32.3	22.6	8.5	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.07.2023	24.8	20.5	8.3	6.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.07.2023	22.4	18.2	8.1	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.07.2023	36.9	21.9	6.8	6.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.07.2023	40.7	26.7	8.7	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.07.2023	33.6	24.3	7.4	7.0	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>22.4</b>	<b>18.2</b>	<b>6.8</b>	<b>6.3</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Max</b>	<b>40.7</b>	<b>27.3</b>	<b>8.7</b>	<b>8.2</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Avg.</b>	<b>32.1</b>	<b>23.4</b>	<b>8.0</b>	<b>7.1</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>98 Percentile</b>	<b>40.2</b>	<b>20.9</b>	<b>18.0</b>	<b>8.1</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	2.0

### Instruments Details :

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

### Instruments Details :

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

K.S.Laj  
Verified by



DBA  
Authorized by  
Managing Director

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

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

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# SPECTRA ENVIROTECH PVT LTD

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

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

## TEST REPORT

ISSUED TO :

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-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 2023

Location-3: Chandrasekharapuram Village

Sample Registration Date: 31.07.2023

Issue Date: 03.08.2023

Lab Ref: SEPL/ES/SEILEILP/07-23/0003

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
06.07.2023	26.4	22.6	7.9	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
07.07.2023	31.7	23.2	8	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.07.2023	33.5	26.5	6.2	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.07.2023	23.3	21.3	7.8	7.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.07.2023	25.2	19.7	8.3	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.07.2023	29.9	28.1	7.3	7.0	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.07.2023	35.1	33.4	6.6	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.07.2023	26.8	27.8	6.4	6.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	23.3	19.7	6.2	6.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	35.1	33.4	8.3	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	29.0	25.3	7.3	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	34.9	32.7	8.3	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	2.0

### Instruments Details :

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

### Instruments Details :

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

K.S.Laj  
Verified by



DBA  
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- July 2023

**Location-4:** Varakavipudi Village

**Sample Registration Date:** 31.07.2023

**Issue Date:** 03.08.2023

**Lab Ref:** SEPL/ES/SEILEILP/07-23/0004

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

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
06.07.2023	22.5	27.2	7.9	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
07.07.2023	31.3	22.6	7.5	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.07.2023	35.6	23.4	6.2	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.07.2023	36.4	12.5	6.3	7.0	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.07.2023	24.7	20.8	7.0	6.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.07.2023	26.2	19.7	7.3	6.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.07.2023	38.1	25.3	7.2	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.07.2023	25.0	22.1	6.5	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>22.5</b>	<b>12.5</b>	<b>6.2</b>	<b>6.2</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Max</b>	<b>38.1</b>	<b>27.2</b>	<b>7.9</b>	<b>7.5</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Avg.</b>	<b>30.0</b>	<b>21.7</b>	<b>7.0</b>	<b>7.0</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>98 Percentile</b>	<b>37.9</b>	<b>26.9</b>	<b>7.8</b>	<b>7.5</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	2.0

### Instruments Details :

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

### Instruments Details :

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

K.S.Laj  
Verified by



DSA  
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

## SUMMARY OF AMBIENT AIR QUALITY- JULY 2023

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>	24.4	22.4	23.3	22.5
	Maximum		39.5	40.7	35.1	38.1
	Average		30.6	32.1	29.0	30.0
	98 Percentile		38.9	40.2	34.9	37.9
PM <sub>2.5</sub>	Minimum		19.6	18.2	19.7	12.5
	Maximum		34.2	27.3	33.4	27.2
	Average		26.1	23.4	25.3	21.7
	98 Percentile		33.7	20.9	32.7	26.9
SO <sub>2</sub>	Minimum		7.2	6.8	6.2	6.2
	Maximum		8.5	8.7	8.3	7.9
	Average		7.9	8.0	7.3	7.0
	98 Percentile		8.5	18.0	8.3	7.8
NO <sub>x</sub>	Minimum		7.1	6.3	6.5	6.2
	Maximum		8.3	8.2	8.6	7.5
	Average		7.7	7.1	7.4	7.0
	98 Percentile		8.3	8.1	8.5	7.5

K.S.Laj  
Verified by



DSA  
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 –AUGUST 2023

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

**Sample Registration Date:** 26.08.2023

**Issue Date:** 30.08.2023

**Lab Ref:** SEPL/ES/SEILEILP/08-23/0001

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

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
03.08.2023	48.8	32.8	8.2	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
04.08.2023	36.6	29.3	7.6	8.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
10.08.2023	27.2	24.5	6.9	7.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.08.2023	23.5	19.7	8.5	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
17.08.2023	33.3	24.2	8.1	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.08.2023	45.4	37.4	7.3	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
24.08.2023	31.7	28.6	8.8	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.08.2023	42.1	35.5	7.4	6.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>23.5</b>	<b>19.7</b>	<b>6.9</b>	<b>6.3</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Max</b>	<b>48.8</b>	<b>37.4</b>	<b>8.8</b>	<b>8.9</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Avg.</b>	<b>36.1</b>	<b>29.0</b>	<b>7.9</b>	<b>7.8</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>98 Percentile</b>	<b>48.3</b>	<b>37.1</b>	<b>8.8</b>	<b>8.9</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

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

### Instruments Details:

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

K.S.Laj  
Verified by



DBA  
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 –AUGUST 2023

Location-2: Sivarampuram village

Sample Registration Date: 26.08.2023

Issue Date: 30.08.2023

Lab Ref: SEPL/ES/SEILEILP/08-23/0002

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
03.08.2023	45.7	24.7	8.8	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
04.08.2023	39.5	32.3	7.2	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
10.08.2023	27.8	23.5	9.4	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.08.2023	34.5	26.4	7.7	6.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
17.08.2023	26.4	21.2	8.3	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.08.2023	43.3	38.6	6.1	6.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
24.08.2023	51.6	46.8	7.5	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.08.2023	38.1	25.4	6.3	8.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>26.4</b>	<b>21.2</b>	<b>6.1</b>	<b>6.4</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Max</b>	<b>51.6</b>	<b>46.8</b>	<b>9.4</b>	<b>9.5</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Avg.</b>	<b>38.4</b>	<b>29.9</b>	<b>7.7</b>	<b>7.8</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>98 Percentile</b>	<b>50.8</b>	<b>45.7</b>	<b>9.3</b>	<b>9.4</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	2.0

### Instruments Details:

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

### Instruments Details:

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

K.S.Laj  
Verified by



DBA  
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 – AUGUST 2023

Location-3: Chandrasekharapuram Village

Sample Registration Date: 26.08.2023

Issue Date: 30.08.2023

Lab Ref: SEPL/ES/SEILEILP/08-23/0003

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
03.08.2023	49.4	35.7	8.2	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
04.08.2023	32.7	28.5	6.9	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
10.08.2023	41.9	37.2	7.7	6.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.08.2023	28.5	22.4	9.4	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
17.08.2023	35.2	31.3	8.8	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.08.2023	37.3	36.8	8.1	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
24.08.2023	44.6	31.2	7.3	6.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.08.2023	43.1	38.9	8.6	7.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	28.5	22.4	6.9	6.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	49.4	38.9	9.4	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	39.1	32.8	8.1	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	48.7	38.7	9.3	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

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

### Instruments Details:

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

K.S.Laj  
Verified by



DA  
Authorized by  
Managing Director

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

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

## TEST REPORT

ISSUED TO:

**M/S.SEIL ENERGY INDIA LIMITED PROJECT-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 2023

Location-4: Varakavipudi Village

Sample Registration Date: 26.08.2023

Issue Date: 30.08.2023

Lab Ref: SEPL/ES/SEILEILP/08-23/0004

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
03.08.2023	36.4	32.2	7.1	6.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
04.08.2023	33.1	24.6	7.4	7.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
10.08.2023	45.5	29.3	6.9	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.08.2023	24.4	21.7	6.4	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
17.08.2023	37.6	34.5	8.5	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.08.2023	42.3	22.4	6.1	6.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
24.08.2023	55.2	36.3	7.5	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.08.2023	31.8	25.8	8.8	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	24.4	21.7	6.1	6.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	55.2	36.3	8.8	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	38.3	28.4	7.3	7.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	53.8	36.0	8.8	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

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

### Instruments Details:

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

K.S.Laj  
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DBA  
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

## SUMMARY OF AMBIENT AIR QUALITY - AUGUST 2023

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>	23.5	26.4	28.5	24.4
	Maximum		48.8	51.6	49.4	55.2
	Average		36.0	38.4	39.1	38.3
	98 Percentile		48.3	50.8	48.7	53.8
PM <sub>2.5</sub>	Minimum		19.7	21.2	22.4	21.7
	Maximum		37.4	46.8	38.9	36.3
	Average		29.0	29.9	32.8	28.4
	98 Percentile		37.1	45.7	38.7	36.0
SO <sub>2</sub>	Minimum		6.9	6.1	6.9	6.1
	Maximum		8.8	9.4	9.4	8.8
	Average		7.9	7.7	8.1	7.3
	98 Percentile		8.8	9.3	9.3	8.8
NO <sub>x</sub>	Minimum		6.3	6.4	6.1	6.5
	Maximum		8.9	9.5	9.3	8.6
	Average		7.8	7.8	7.6	7.7
	98 Percentile		8.9	9.4	9.2	8.6

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DBA  
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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-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 – September 2023

Location-1: Fire Station (Plant Site)

Sample Registration Date: 30.09.2023

Issue Date: 06.10.2023

Lab Ref: SEPL/ES/SEILEILP/09-23/0001

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
01.09.2023	45.2	31.5	8.1	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
02.09.2023	33.6	28.6	7.9	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
07.09.2023	22.7	18.4	6.5	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.09.2023	27.4	25.8	8.1	6.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.09.2023	38.9	29.7	7.7	7.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.09.2023	41.8	38.3	8.2	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.09.2023	25.3	23.4	7.3	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.07.2023	44.5	33.9	6.6	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.09.2023	29.7	21.1	7.4	6.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.09.2023	42.1	32.6	7.8	6.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	22.7	18.4	6.5	6.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	45.2	38.3	8.2	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	35.1	28.3	7.6	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	45.1	4.0	8.2	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

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

### Instruments Details:

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

K.S.Laj  
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DBA  
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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-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 – September 2023

Location-2: Sivarampuram village

Sample Registration Date: 30.09.2023

Issue Date: 06.10.2023

Lab Ref: SEPL/ES/SEILEILP/09-23/0002

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
01.09.2023	42.5	25.4	8.5	7.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
02.09.2023	36.2	33.9	7.1	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
07.09.2023	25.3	21.7	9.3	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.09.2023	33.4	24.8	6.7	6.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.09.2023	29.9	26.2	7.5	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.09.2023	45.7	35.6	6.8	6.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.09.2023	42.6	41.2	7.3	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.07.2023	34.5	24.5	6.4	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.09.2023	27.4	19.3	6.8	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.09.2023	22.2	28.1	7.2	6.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>22.2</b>	<b>19.3</b>	<b>6.4</b>	<b>6.3</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Max</b>	<b>45.7</b>	<b>41.2</b>	<b>9.3</b>	<b>8.6</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Avg.</b>	<b>34.0</b>	<b>28.1</b>	<b>7.4</b>	<b>7.5</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>98 Percentile</b>	<b>45.1</b>	<b>40.2</b>	<b>9.2</b>	<b>8.5</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	2.0

### Instruments Details:

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

### Instruments Details:

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

K.S.Laj  
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DA  
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Managing Director

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

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

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 – September 2023

Location-3: Chandrasekharapuram Village

Sample Registration Date: 30.09.2023

Issue Date: 06.10.2023

Lab Ref: SEPL/ES/SEILEILP/09-23/0003

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
01.09.2023	46.5	26.3	8.3	9.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
02.09.2023	34.6	31.4	6.5	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
07.09.2023	47.2	33.1	7.4	6.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.09.2023	25.9	22.9	9.1	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.09.2023	33.1	28.5	8.6	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.09.2023	36.5	31.4	7.7	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.09.2023	42.6	34.5	7.2	6.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.07.2023	45.7	35.7	8.3	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.09.2023	29.8	23.1	6.4	6.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.09.2023	34.3	27.2	7.5	6.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	25.9	22.9	6.4	6.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	47.2	41.4	9.1	9.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	37.6	30.4	7.7	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	47.1	40.4	9.0	9.0	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

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

K.S.Laj  
Verified by



### Instruments Details:

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

Authorized by  
Managing Director

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

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

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# SPECTRA ENVIROTECH PVT LTD

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

## TEST REPORT

ISSUED TO:

**M/s. SEIL ENERGY INDIA LIMITED PROJECT-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 2023

Location-4: Varakavipudi Village

Sample Registration Date: 30.09.2023

Issue Date: 06.10.2023

Lab Ref: SEPL/ES/SEILEILP/09-23/0004

Sample collected person details: S. Ganesh

## TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				$\text{mg}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				$\text{ng}/\text{m}^3$		
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	Pb	O <sub>3</sub>	NH <sub>3</sub>	C <sub>6</sub> H <sub>6</sub>	BaP	As	Ni
01.09.2023	45.1	34.7	6.9	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
02.09.2023	33.7	26.4	7.5	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
07.09.2023	46.8	28.5	6.4	6.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.09.2023	27.4	22.3	6.1	6.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.09.2023	36.5	27.6	8.3	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.09.2023	44.9	22.5	6.7	6.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.09.2023	46.6	39.9	7.4	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.07.2023	36.2	31.1	8.8	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.09.2023	28.2	19.2	8.6	6.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.09.2023	39.3	35.4	7.3	6.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
<b>Min</b>	<b>27.4</b>	<b>19.2</b>	<b>6.1</b>	<b>6.2</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Max</b>	<b>46.8</b>	<b>39.9</b>	<b>8.8</b>	<b>8.4</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>Avg.</b>	<b>38.5</b>	<b>28.8</b>	<b>7.4</b>	<b>7.1</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
<b>98 Percentile</b>	<b>46.8</b>	<b>39.1</b>	<b>8.8</b>	<b>8.3</b>	<b>&lt;1.5</b>	<b>&lt;0.04</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;10</b>
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

### Instruments Details:

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

### Instruments Details:

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

K.S.Laj  
Verified by



DBA  
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

## SUMMARY OF AMBIENT AIR QUALITY – SEPTEMBER 2023

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>	22.7	22.2	25.9	27.4
	Maximum		45.2	45.7	47.2	46.8
	Average		35.1	34.0	37.6	38.5
	98 Percentile		45.1	45.1	47.1	46.8
PM <sub>2.5</sub>	Minimum		18.4	19.3	22.9	19.2
	Maximum		38.3	41.2	41.4	39.9
	Average		28.3	28.1	30.4	28.8
	98 Percentile		4.0	40.2	40.4	39.1
SO <sub>2</sub>	Minimum		6.5	6.4	6.4	6.1
	Maximum		8.2	9.3	9.1	8.8
	Average		7.6	7.4	7.7	7.4
	98 Percentile		8.2	9.2	9.0	8.8
NO <sub>x</sub>	Minimum		6.6	6.3	6.4	6.2
	Maximum		8.5	8.6	9.1	8.4
	Average		7.5	7.5	7.3	7.1
	98 Percentile		8.5	8.5	9.0	8.3

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](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 Project-2 Environment Expenditure			
S.No	Area	Particulars	Expenses in Rs.
1	<b>CHP</b>	Operations (CHP)	₹ 2,25,00,000
2		Mechanical Maintnenace	₹ 11,24,410
3		Electrical Maintnenace	₹ 8,24,410
4		Coal Yard Sprinklers	₹ 26,80,000
5		DFDS System	₹ 4,50,000
6	<b>AHP</b>	Operations	₹ 78,56,000
7		Mechanical Maintnenace	₹ 12,18,000
8		Electrical Maintnenace	₹ 2,12,678
9		C&I Maintnenace	₹ 40,00,000
10	<b>Others</b>	Green Belt	₹ 98,50,000