



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

SEIL P1/MoEF&CC/Chennai/2024/003
30th May 2024

To
The Regional Director,
Regional Office (South Eastern Region),
Ministry of Environment, Forests & Climate Change,
1st & 2nd 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-1 (Formerly known as Sembcorp Energy India Limited) for the period from October 2023 to March 2024**

Ref.: EC Letter No: J 13012/02/2009— IA.II (T) dated 04-11-2009, amended dated 02.03.2015

Dear Sir,

As per the provision of Environment Clearance, we hereby submit the half yearly EC compliance status report for the period of October 2023 to March 2024 of SEIL Energy India Limited Project-1 (Formerly known as Sembcorp Energy India Limited), Nellore.

Hope the above is in order.

Thanking you,

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

Pavan Kumar Rao V
Head HSE- SEIL

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



UNIVERSAL
ENVIRO ASSOCIATES

SINCE 1994

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

Date: 29-05-2024

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

Sub: Third Party Certificate - Half-yearly compliance report on conditions of EC-Reg.

Ref: EC Letter No: J 13012/02/2009-IA. II (T) dated 04-11-2009, amended dated 02.03.2015.

Respected Sir/Madam,

With reference to "Environmental Clearance" issued to **M/s. SEIL Energy India Limited Project-1** (Formerly known as Sembcorp Energy India Limited), Nellore, we are herewith certifying that **M/s. SEIL Energy India Limited Project-1** has complied all the conditions imposed in EC and attached annexures for the period October 2023 to March 2024.

Thanking you,

Yours faithfully,
For **Universal Enviro Associates,**

T. Krishna

T Krishna
(Technical Manager)



Copy To:

1. The Director, IA.I, MoEF&CC, New Delhi
2. The Joint Director (S), Scientist 'D', MoEF&CC, IRO, Vijayawada
3. The Environmental Engineer, APPCB, Nellore

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

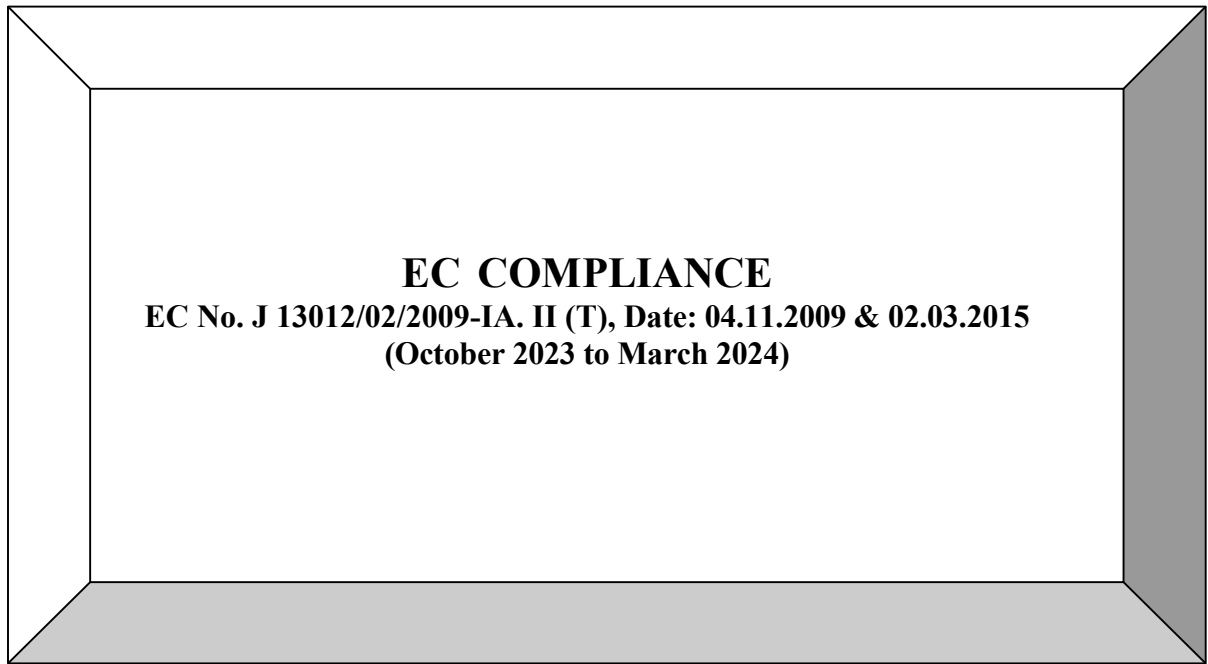
Ph: 040-4890 8772, 98480 16854, e-mail: uea123@gmail.com, www.universalenviro.in

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

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

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

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



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



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

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

01. Background:

SEIL Energy India Ltd Project-1 [Formerly known as Sembcorp Energy India Limited] is a leading independent thermal power plant situated in Nellore district of Andhra Pradesh.

At SEIL currently, Stage-I power plant consisting of 2x660 MW is under operation since October 2015.

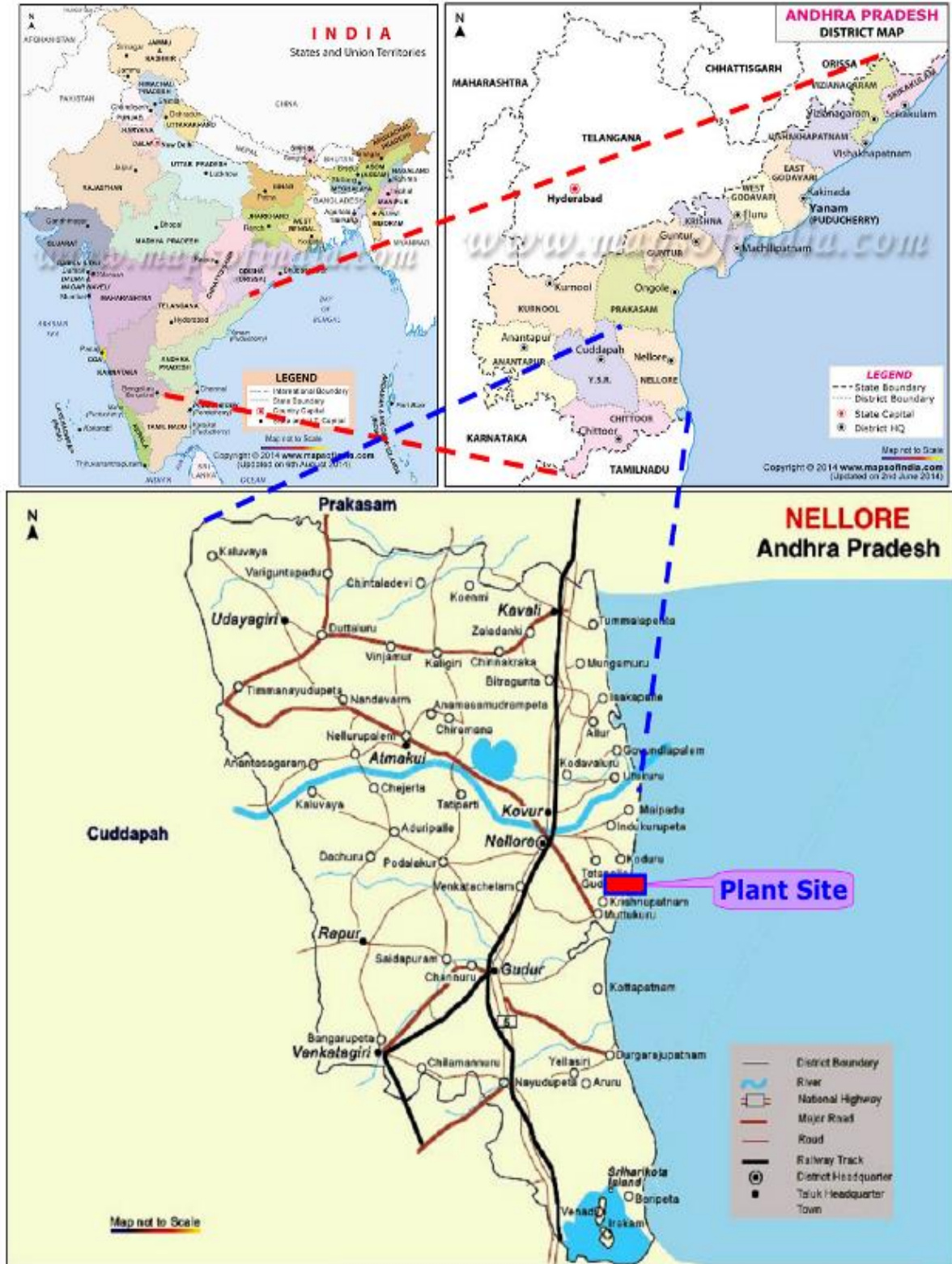
The location map and key map are shown in **Figure-1** & **Figure-2** respectively. The 10 km radius topographical map around the project is shown in **Figure-3**. The latitude & longitude of North South extremes of Site are 80°08'35.956''E & 14°19'5.211''N and 80°09'16.325''E & 14°21'0.874''N respectively.



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

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

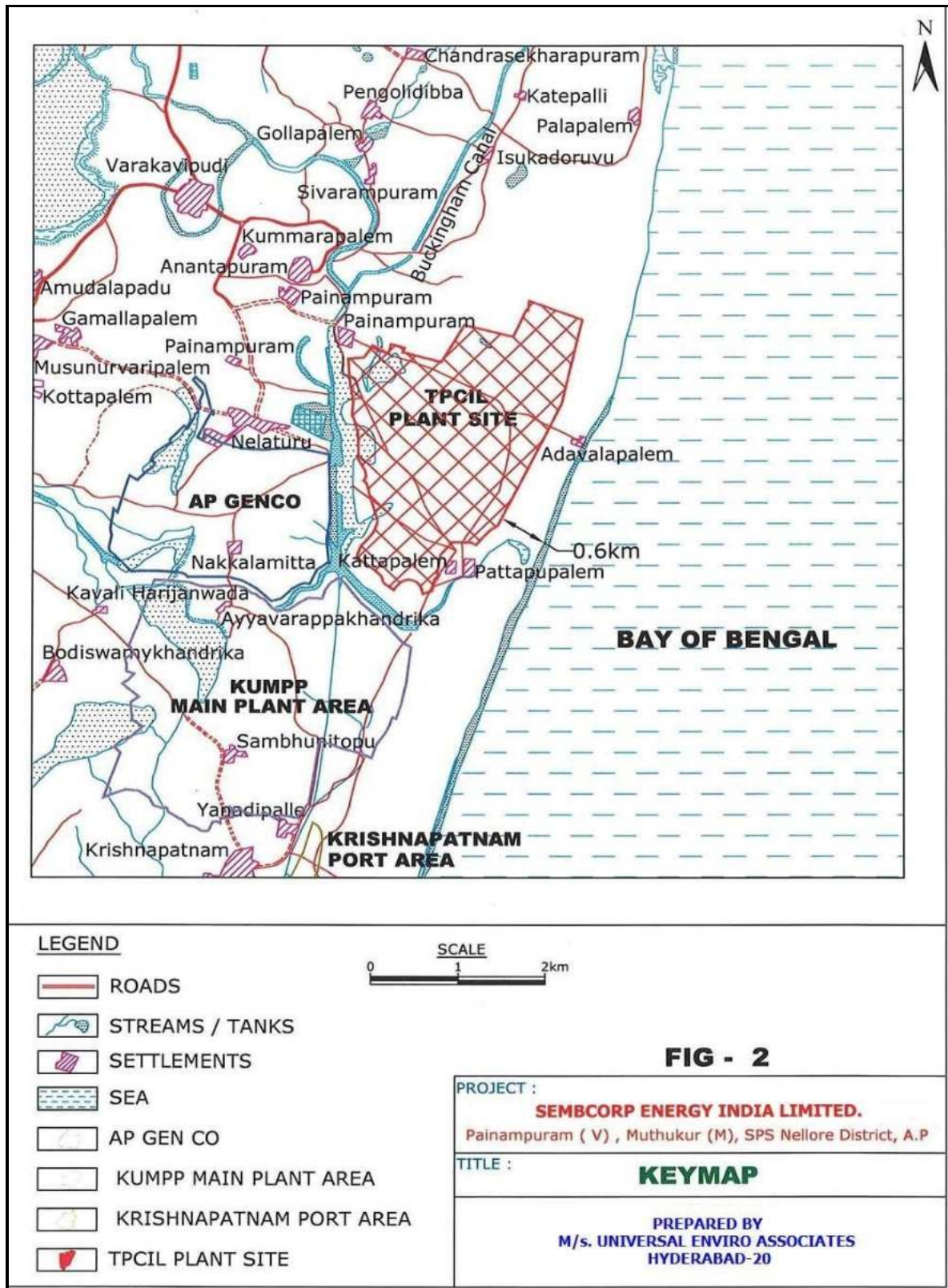
Fig. - 1 (LOCATION MAP)



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

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

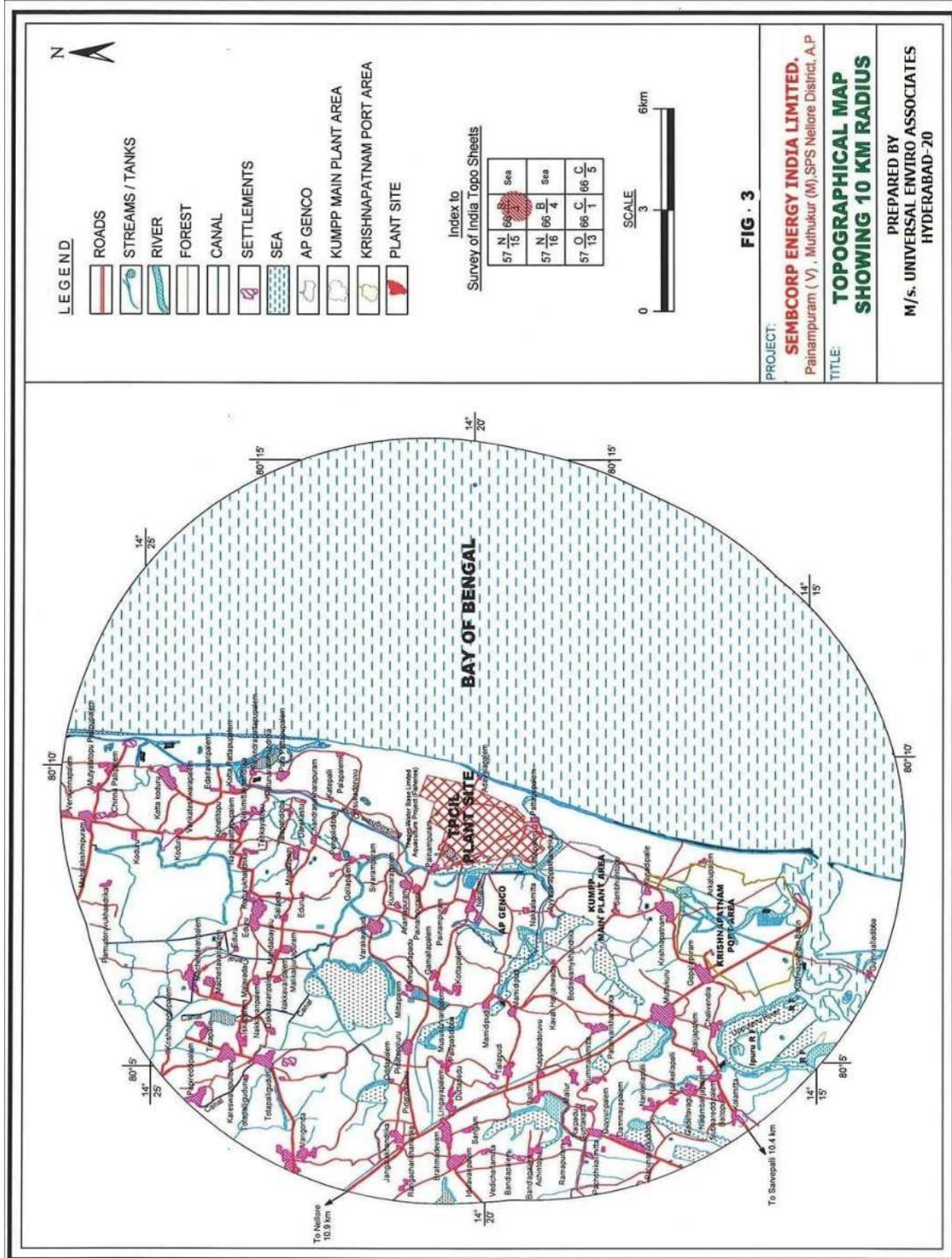
Fig. - 2 (KEY MAP OF PROJECT SITE)



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

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

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



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

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


02. Statutory Approvals/Clearances:



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

S. No.	Authorization	Accorded By	Validity
1	Environment Clearance	Ministry of Environment & Forests, Govt. of India	MoEF Letter dated 4/11/2009. The validity of EC is extended to 7 years as per MoEF&CC notification Dtd. 29-04-2015 to start the operations. Accordingly, SEIL commenced its operations by Sept 2015, well within due date.
2	CRZ Clearance	Ministry of Environment & Forests, GOI	F.No. 11-129/2010-IA.III. Dated: 5 th December, 2011
3	Combined Consent for Operation (CFO) for two units	AP Pollution Control Board	Order No. APPCB/VJA/VJA/930/HO/CFO/2016 Dated: 16 th Nov 2021. Renewed and is valid till 30th Nov 2026. CTO Name change approval accorded vide Order No. APPCB/VJA/NLR/930/HO/CFO/2018 dated 20-07-2023






CONDITION WISE COMPLIANCE TO ACCORDED ENVIRONMENT CLEARANCE

S No.	Condition	Compliance
4. i	Status of implementation of 100% utilisation of Fly Ash generated shall be submitted to the Ministry within six months of operation of the plant.	<p>Complying.</p> <p>SEIL (formerly known as Sembcorp Energy India Limited) is achieving 100% fly ash utilization since September 2019.</p> <p>Annual Fly Ash utilization for FY2023-2024 is submitted to MoEF&CC vide letter No. SEIL P1/MoEF&CC/Chennai/2024/01 dated 23rd May 2024.</p>
ii	Stacks of 275 m height (Bi-Flue for Stage -I and Single Flue for Stage II) shall be provided with continuous online monitoring equipment for SO _x , NO _x and PM. Exit Velocity of flue gases shall not be less than 25 m/sec. Mercury emissions from stack shall also be monitored on periodic basis.	<p>Complying.</p> <p>One Bi-Flue gas chimney of 275 m height (Stage-I) is provided along with continuous online emission monitoring equipment for measuring SO_x, NO_x and Particulate Matter.</p>  <p>Mercury is being monitored on quarterly basis.</p> <p>Monitored parameters of flue gas is well within prescribed norms.</p> <p>MoEF&CC approved agency monitored Stack Emission Reports are attached as Annexure- I.</p>
iii	Possibility for installation of combined intake with neighbouring Power Plants shall be examined and in the event of non-feasibility adequate justification shall be submitted with a period of six months.	Installation of combined intake with neighbouring Power Plant was not found feasible.


S No.	Condition	Compliance
iv	<p>High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm³.</p>	<p>Complying.</p> <p>Electrostatic Precipitators (ESPs) with more than 99.9% efficiency (72 fields each) are installed to control the Particulate Matter Emission within prescribed standards of 50 mg/Nm³.</p> 
v	<p>Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.</p>	<p>Complying.</p> <p>Bag filters are provided for coal crusher.</p> 




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


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



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






S No.	Condition	Compliance
vi	<p>Fly ash shall be collected in dry form and storage facility (silos) shall be provided (as applicable). 100% fly ash utilisation shall be ensured from 4th year onwards. Unutilized fly ash shall be disposed off in the ash pond in the form of slurry form. Mercury and other heavy metals (As, Hg, Cr, Pb etc.) will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.</p>	<p>Fly ash is collected in dry form and stored in silos of 3x2000 cum capacity for disposal to various users. Unutilised fly ash is being disposed to the ash pond in lean slurry form.</p>  <p>SEIL Project-1 (Formerly known as Sembcorp Energy India Limited) is achieving 100% fly ash utilization since September 2019.</p> <p>Annual Fly Ash utilization report for FY2023-2024 vide letter No. SEIL P1/MoEF&CC/Chennai/2024/001 dated 23rd May 2024.</p> <p>SEIL has also installed and commissioned fly ash classification unit of 5 Lakh TPA (Tonne per annum) within the site.</p> <p>Bottom Ash heavy metals analysis reports, Piezo Wells ground water quality reports & Ash Pond Effluent Quality Monitoring reports performed by MoEF&CC approved third party are attached as Annexure-II, III & IV respectively.</p>

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

S No.	Condition	Compliance
ix	No ground water shall be extracted for the project work at any stage.	<p>Complied.</p> <p>No ground water was extracted for the project work. Entire water requirement of the plant is being met from seawater only.</p>
x	Hydrogeological study of the area shall be reviewed annually and results to be submitted to the Ministry and concerned agency in the State Government. In case adverse impact on ground water quality and quantity is observed, immediate mitigating steps to contain any adverse impact on ground water shall be undertaken.	<p>Complying.</p> <p>Hydrogeology Study is being conducted annually and latest report submitted vide letter number SEIL P1/MoEF&CC/Chennai/2024/002 dated 29th May 2024.</p>
xi	Minimum required environmental flow suggested by the Competent Authority of the State Government shall be maintained in the Channel/rivers even in lean season.	<p>Not applicable.</p> <p>Not applicable as SEIL is not extracting any River/ canal water. Entire water requirement for plant operations is being met through seawater.</p>
xii	The treated effluents conforming to the prescribed standards should be only discharged. Arrangement shall be made that effluents and storm water do not get mixed.	<p>Complying.</p> <p>ETP and STP are in operation for treating wastewater generated in the plant to meet the prescribed standards. Treated water is being used for Dust suppression and Green Belt.</p>  <p>Storm water system is adequately designed to avoid mixing with effluents and has a separate disposal system.</p> <p>ETP treated water and Marine outfall water analysis reports are attached as Annexure-V & VI respectively.</p>

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

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

S No.	Condition	Compliance
xx	<p>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>	<p>Complying.</p> <p>SEIL has ensured that the ambient noise level at the plant boundary shall comply with National ambient noise standards. Quarterly monitoring of noise level data is Complying to the standards.</p> <p>Workers are provided with adequate personal protective equipment.</p> <p>Necessary medical examinations are conducted, and records are being maintained.</p> <p>MoEF&CC approved Third party Noise Quality Monitoring Reports are attached as Annexure-IX.</p>
xxi	<p>Regular monitoring of ground level concentration of SO_x, NO_x, RSPM and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and the frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional office of this Ministry. The data shall also be put on the website of the company.</p>	<p>Complied.</p> <p>Continuous AAQM stations (with online analysers) are provided at 4 locations. The data is continuously uploaded to CPCB & APPCB websites on real time basis.</p> <p>In addition, manual ambient air quality monitoring is being carried out by engaging third party laboratory. The locations and monitoring are in consultation with PCB.</p> <p>MoEF&CC approved third party Ambient Air Quality Monitoring Reports are attached as Annexure-X.</p> <div style="display: flex; justify-content: space-around;">   </div>

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

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

S No.	Condition	Compliance
xxii	A good action plan for R&R (if applicable) with package for the project affected persons be submitted and implemented as per prevalent R&R policy within three months from the date of issue of this letter.	Not Applicable
xxiii	An amount of Rs.32.0 crores shall be earmarked as one time capital cost for CSR programme. Subsequently a recurring expenditure of Rs.6.4 Crores per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within one month along with road map for implementation.	Complying. For FY2023-24, SEIL has spent an amount of INR 6.61 crores on CSR related activities. The details of CSR activities being implemented during October 2023 to March 2024 by SEIL are attached as Annexure-XI .
xxiv	As part of CSR programme the company shall conduct need based assessment for the nearby villages to study economic measures with action plan which can help in upliftment of poor section of society. Income generating projects consistent with the traditional skills of the people besides development of fodder farm, fruit bearing orchards, vocational training etc., can form a part of such programme. Company shall provide separate budget for community development activities and income generating programmes. This will be in addition to vocational training for individuals imparted to take up self-employment and jobs.	Complying. Company CSR Policy was prepared and executed based on Need Based Socio-Economic study was conducted and report submitted.




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

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

S No.	Condition	Compliance
xxv	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project	Complied during construction phase.
xxvi	The Project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at the Website of the Ministry of Environment and Forests at http://envfor.nic.in .	Complied. Advertisements have been given in Telugu newspaper on dated: 04 th July 2009 and in English newspaper on dated: 03 rd July 2009.
xxvii	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad /Municipal corporation, urban local body and the local NGO, if any from whom suggestions/representations, if any, received while processing the proposal. The Clearance letter shall also be put on the website of the Company by the Proponent.	Complied. Clearance letter was sent to concerned Panchayat, Zilla Parishad/ Municipal Corporation, urban local body. Clearance letters are also uploaded in SEIL website.




S No.	Condition	Compliance
xxviii	A dedicated Environment Management Cell with suitable qualified personnel shall be set up under the control of a Senior executive who will report directly to the head of the organization.	Complied. SEIL has established an Environment Management Cell with suitable qualified personnel under the supervision of Head-HSE, who reports directly to the Station Head.
xxix	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely: SPM, RSPM, SO _x , NO _x (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.	Complied. Regular compliance reports are submitted to ministry. SEIL has uploaded the status reports including the monitored data in the SEIL website at https://www.seilenergy.com/AboutUs/Disclosure The environmental monitored data including Ambient Air Quality for criteria pollutants and stack emission are displayed at the main gate.  <u>Main Gate display of AAQ data</u>
xxx	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data to the respective Regional Office of MOEF, the respective Zonal office of CPCB and SPCB.	Complying. Six Monthly reports against EC compliance is being submitted to MOEF&CC, the respective Zonal office of CPCB and SPCB. EC Compliance report for the period of Apr 2023 to Sept 2023 was submitted on 27 th November 2023.

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

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

S No.	Condition	Compliance
xxxii	The Environment Statement for each financial year ending 31 st 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.	Complying. Environment Statement (Form-V) for FY2022-23 has been submitted to APPCB (Ref. No.: SEIL P1/APPCB/BZA/2023/005 dated 28 th September 2023).
xxxiii	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests.	Complying. SEIL is submitting the six-monthly reports on status of compliance and the monitored data to the concerned regulatory authorities. The reports are being uploaded on APPCB & SEIL website periodically. https://www.seilenergy.com/AboutUs/Disclosure https://pcb.ap.gov.in/UI/Submission_Compliance_of_EC_CFE_CFO_Direction.aspx




S No.	Condition	Compliance
xxxiii	Regional Office of the Ministry of Environment and Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will upload the compliance status in their website and update the same from time to time at least six monthly basis. Criteria pollutants levels including NO _x (from Stack and ambient air) shall be displayed at the main gate of the power plant.	<p>Noted. Being complied.</p> <p>The compliance reports are also uploaded in company website. https://www.seilenergy.com/AboutUs/Disclosure</p> <p>The environmental monitored data including Ambient Air Quality for criteria pollutants and stack emission data is being displayed at the main gate.</p>  <p><u>.Main Gate display of AAQ data</u></p>
xxxiv	Separate funds shall be allocated for implementation of environmental protection measures along with item wise break up. These costs shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year wise expenditure should be reported to the Ministry.	<p>Complying.</p> <p>Separate fund is allocated for to Environment protection measures and the expenditure report is attached as Annexure-XII.</p>
xxxv	The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the Project by the concerned authorities and the dates of start of land development work and commission of Plant.	<p>Complied and communicated.</p>

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

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

S No.	Condition	Compliance
xxxvi	Full cooperation shall be extended to the Scientists/Officers from the Ministry /Regional Office of the Ministry at Bangalore/CPCB/SPCB who should be monitoring the compliance of environmental status.	Noted for compliance.
xxxvii	Harnessing Solar Power within the premises of the plant particularly at available roof tops shall be carried out and status of implementation including actual generation of solar power shall be submitted along with half yearly monitoring reports.	Complying. Solar panels have been installed above canteen roof. Power generation of 34581 KWHR for FY2023-24.
xxxviii	Long term study of radioactivity and heavy metals contents on coal to be used shall be carried out through a reputed institute and results thereof analysed every two year and reported along with monitoring reports. Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.	Complying. Quarterly monitoring reports of heavy metals of Coal and Radioactive Analysis reports of Coal & Ash are attached as Annexure-XIII & Annexure-XIV.



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

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




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

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



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

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

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



S No.	Condition	Compliance
xlvi	An Environment Cell comprising of at least one expert in environment science / engineering, ecology, occupational health and social science, shall be created preferably at the project site itself and shall be headed by an officer of appropriate superiority and qualification. It shall be ensured that the Head of the Cell shall directly report to the Head of the Plant who would be accountable for implementation of environmental regulations and social impact improvement / mitigation measures.	<p>Complying.</p> <p>SEIL has established an Environment Management Cell with suitable qualified personnel under the supervision of Head-HSE, who reports directly to the Station Head.</p> <p>Services of Marine biologist & ecologist will be hired based on the requirement.</p>
xlvii	The project proponent shall formulate a well laid Corporate Environment Policy and identify and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with the conditions stipulated in this clearance letter and other applicable environmental laws and regulations.	<p>Complied.</p> <p>Environmental Policy has been incorporated in the QHSE Policy.</p> <p>QHSE Policy is attached as Annexure-XV.</p>
5	The Ministry of Environment and Forests reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry. The Ministry may also impose additional environmental conditions or modify the existing ones, if necessary.	<p>Noted.</p>
6	The environmental clearance accorded shall be valid for a period of 5 years to start operations by the Power Plant.	<p>Noted.</p> <p>The validity of EC is extended to 7 years by MoEF&CC Notification Dated 29-04-2015.</p> <p>The 2x660 MW project has already commenced operations since 2015.</p>



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

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

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



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

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

GREEN BELT/ GREEN COVER DEVELOPMENT IN SITE



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

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

GREEN COVER AROUND PERIPHERY



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

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

GREEN COVER ALONG THE PLANT ROADS



GREEN COVER ALONG PIPE RACK & INTERNAL ROADS



GREEN COVER INSIDE THE PLANT



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

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



GREEN COVER ALONG MAIN PLANT ROAD



AVENUE PLANTATION



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

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



GREEN COVER NEAR PLANT SERVICE BUILDING



GREEN COVER IN NORTH EAST AREA

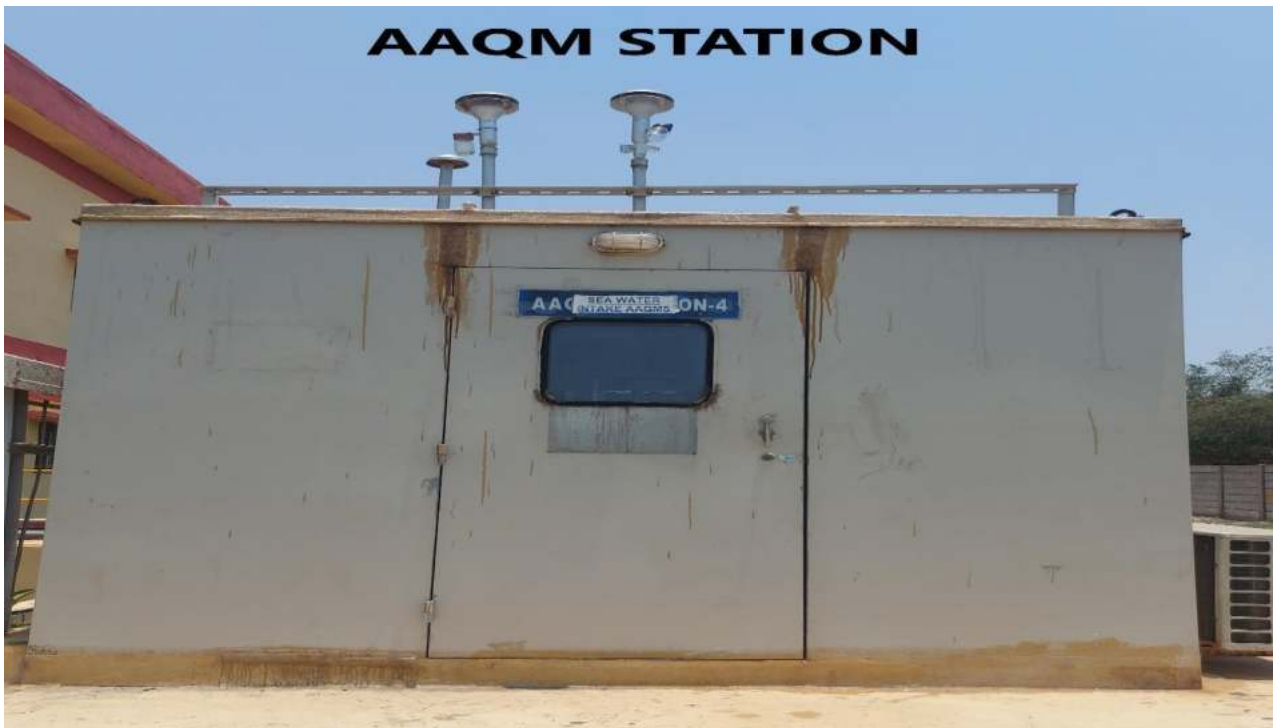


M/s. SEIL Energy India Limited Project-1
(Formerly Known as M/s. Sembcorp Energy India Limited),
Painampuram & Nelaturu (V), Muthukur (M),
SPSR Nellore (Dist.), Andhra Pradesh.

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



COAL YARD WATER SPRINKLING



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

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



CONTINUOUS AMBIENT AIR QUALITY MONITORING STATION INSIDE THE PLANT



WIND BREAK PLANTATION AROUND COAL YARD



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

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



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



DUST EXTRACTION SYSTEM AT TRANSFER POINTS



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

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



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





SPECTRA ENVIROTECH PVT LTD

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

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

ANNEXURE-I

TEST REPORT

ISSUED TO:

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

Group: Atmospheric Pollution

Product: Stack Emission Monitoring- November 2023

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

Date of Monitoring: 10.11.2023

Sample Registration Date: 11.11.2023

Analysis Starting Date: 11.11.2023

Analysis Completed Date: 17.11.2023

Issue Date: 18.11.2023

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

TEST RESULT

1. Time of Sampling ---- : 10:30 Hrs. to 11:30 Hrs.
2. Time Duration : 00:60 Hrs.
3. Ambient Temperature (°C) : 33.8
4. Flue gas Temperature (°C) : 144
5. Velocity of the flue gas (m/sec) : 24.84
6. C/s area of the duct (m³) : 33.20
7. Stack Diameter (m) : 6.5
8. Flue gas Flow Rate (Nm³/Hr) : 2968876

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

Instrument Details:

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

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Group: Atmospheric Pollution

Product: Stack Emission Monitoring- November 2023

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

Date of Monitoring: 10.11.2023

Sample Registration Date: 11.11.2023

Analysis Starting Date: 11.11.2023

Analysis Completed Date: 17.11.2023

Issue Date: 18.11.2023

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

TEST RESULT

1. Time of Sampling ---- : 11:40 Hrs. to 12:30 Hrs.
2. Time Duration : 00:50 Hrs.
3. Ambient Temperature (°C) : 33.6
4. Flue gas Temperature (°C) : 145
5. Velocity of the flue gas (m/sec) : 24.56
6. C/s area of the duct (m³) : 33.20
7. Stack Diameter (m) : 6.5
8. Flue gas Flow Rate (Nm³/Hr) : 2935411

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

Instrument Details:

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

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Group: Atmospheric Pollution

Product: Stack Emission Monitoring- February 2024

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

Date of Monitoring: 20.02.2024

Sample Registration Date: 21.02.2024

Analysis Starting Date: 21.02.2024

Analysis Completed Date: 27.02.2024

Issue Date: 27.02.2024

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

TEST RESULT

1. Time of Sampling ---- : 10:30 Hrs. to 11:30 Hrs.
2. Time Duration : 00:60 Hrs.
3. Ambient Temperature (°C) : 34.1
4. Flue gas Temperature (°C) : 148
5. Velocity of the flue gas (m/sec) : 25.92
6. C/s area of the duct (m³) : 33.20
7. Stack Diameter (m) : 6.5
8. Flue gas Flow Rate (Nm³/Hr) : 2978438.4

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

Instrument Details:

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

K.S.Laj
Verified by



DA
Authorized by
Managing Director



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

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

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



SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Group: Atmospheric Pollution

Product: Stack Emission Monitoring- February 2024

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

Date of Monitoring: 20.02.2024

Sample Registration Date: 21.02.2024

Analysis Starting Date: 21.02.2024

Analysis Completed Date: 27.02.2024

Issue Date: 27.02.2024

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

TEST RESULT

1. Time of Sampling ---- : 11:40 Hrs. to 12:30 Hrs.
2. Time Duration : 00:50 Hrs.
3. Ambient Temperature (°C) : 34.1
4. Flue gas Temperature (°C) : 149
5. Velocity of the flue gas (m/sec) : 25.69
6. C/s area of the duct (m³) : 33.20
7. Stack Diameter (m) : 6.5
8. Flue gas Flow Rate (Nm³/Hr) : 2950948.8

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

Instrument Details:

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

K.S.Laj
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

ANNEXURE-II

TEST REPORT

ISSUED TO: M/s. SEIL ENERGY INDIA LIMITED PROJECT-1 (2x660 MW Coal Based Thermal Power Plant), Near Pynampuram / Nelaturu (V), Muthukur (M), SPSR Nellore (Dist.) -524344.	
Discipline: Chemical Group: Water Product: Heavy Metal Analysis of Fly Ash- November 2023 Date of Monitoring: 23.11.2023 Sample Collected By: Ganesh	Sample Registration Date: 24.11.2023 Analysis Starting Date: 24.11.2023 Analysis Completed Date: 30.11.2023 Issue Date: 01.12.2023 Lab Ref: SEPL/ES/SEILEILP/11-23/0001

TEST RESULT

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

USEPA- United States Environmental Protection Agency

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO: M/s. SEIL ENERGY INDIA LIMITED PROJECT-1 (2x660 MW Coal Based Thermal Power Plant), Near Pynampuram / Nelaturu (V), Muthukur (M), SPSR Nellore (Dist.) -524344.	
Discipline: Chemical Group: Water Product: Heavy Metal Analysis of Bottom Ash- November 2023 Date of Monitoring: 23.11.2023 Sample Collected By: Ganesh	Sample Registration Date: 24.11.2023 Analysis Starting Date: 24.11.2023 Analysis Completed Date: 30.11.2023 Issue Date: 01.12.2023 Lab Ref: SEPL/ES/SEILEILP/11-23/0002

TEST RESULT

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

USEPA- United States Environmental Protection Agency

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

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

Discipline: Chemical

Group: Water

Product: Heavy Metal Analysis of Fly Ash- February 2024

Date of Monitoring: 20.02.2024

Sample Collected By: Ganesh

Sample Registration Date: 21.02.2024

Analysis Starting Date: 21.02.2024

Analysis Completed Date: 27.02.2024

Issue Date: 27.02.2024

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

TEST RESULT

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

USEPA- United States Environmental Protection Agency

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Water

Product: Heavy Metal Analysis of Bottom Ash- February 2024

Date of Monitoring: 20.02.2024

Sample Collected By: Ganesh

Sample Registration Date: 21.02.2024

Analysis Starting Date: 21.02.2024

Analysis Completed Date: 27.02.2024

Issue Date: 27.02.2024

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

TEST RESULT

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

USEPA- United States Environmental Protection Agency

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

ANNEXURE-III

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

(2x660 MW Coal Based Thermal Power Plant),

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

SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Water

Product Water

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

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

Date of Monitoring: 23.11.2023

Sample Registration Date: 24.11.2023

Analysis Starting Date: 24.11.2023

Analysis Completed Date: 30.11.2023

Issue Date: 01.12.2023

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

Sample Collected By: Ganesh

TEST RESULT

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

K.S.L.g
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

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

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-1

(2x660 MW Coal Based Thermal Power Plant),

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

SPSR Nellore (Dist.) - 524344.

Discipline: Chemical

Group: Water

Product Water

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

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

Date of Monitoring: 23.11.2023

Sample Registration Date: 24.11.2023

Analysis Starting Date: 24.11.2023

Analysis Completed Date: 30.11.2023

Issue Date: 01.12.2023

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

Sample Collected By: Ganesh

TEST RESULT

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

K.S.L.g
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

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

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-1
(2x660 MW Coal Based Thermal Power Plant),
Near Pynampuram / Nelaturu (V), Muthukur (M),
SPSR Nellore (Dist.) - 524344.

Discipline: Chemical

Group: Water

Product Water

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

Date of Monitoring: 23.11.2023

Sample Registration Date: 24.11.2023

Analysis Starting Date: 24.11.2023

Analysis Completed Date: 30.11.2023

Issue Date: 01.12.2023

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

Sample Collected By: Ganesh

TEST RESULT

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

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

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

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-1

(2x660 MW Coal Based Thermal Power Plant),

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

SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Water

Product Water

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

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

Date of Monitoring: 20.02.2024

Sample Registration Date: 21.02.2024

Analysis Starting Date: 21.02.2024

Analysis Completed Date: 27.02.2024

Issue Date: 27.02.2024

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

Sample Collected By: Ganesh

TEST RESULT

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

K.S.L.g
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

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

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-1

(2x660 MW Coal Based Thermal Power Plant),

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

SPSR Nellore (Dist.) - 524344.

Discipline: Chemical

Group: Water

Product Water

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

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

Date of Monitoring: 20.02.2024

Sample Registration Date: 21.02.2024

Analysis Starting Date: 21.02.2024

Analysis Completed Date: 27.02.2024

Issue Date: 27.02.2024

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

Sample Collected By: Ganesh

TEST RESULT

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

K.S.L.g
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

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

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-1
(2x660 MW Coal Based Thermal Power Plant),
Near Pynampuram / Nelaturu (V), Muthukur (M),
SPSR Nellore (Dist.) - 524344.

Discipline: Chemical

Group: Water

Product Water

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

Date of Monitoring: 20.02.2024

Sample Registration Date: 21.02.2024

Analysis Starting Date: 21.02.2024

Analysis Completed Date: 27.02.2024

Issue Date: 27.02.2024

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

Sample Collected By: Ganesh

TEST RESULT

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

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

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

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

ANNEXURE-IV

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

TEST RESULT

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

IS-Indian Standard

K.S.Lag
Verified by



DA
Authorized by
Managing Director

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Waste water

Sample Location: **Ash Pond Effluent Water**

Date of Monitoring: 20.02.2024

Sample Collected By: Ganesh

Sample Registration Date: 21.02.2024

Analysis Starting Date: 21.02.2024

Analysis Completed Date: 27.02.2024

Issue Date: 27.02.2024

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

TEST RESULT

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

IS-Indian Standard

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ANNEXURE-V

ISSUED TO:

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

Discipline: Chemical

Group: Water

Product: ETP OUTLET (Treated Effluent)

Date of Monitoring: 23.11.2023

Sample Collected By: Ganesh

Sample Registration Date: 24.11.2023

Analysis Starting Date: 24.11.2023

Analysis Completed Date: 30.11.2023

Issue Date: 01.12.2023

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

TEST RESULT

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

Note: IS- Indian Standard

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

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

Discipline: Chemical

Group: Water

Product: ETP OUTLET (Treated Effluent)

Date of Monitoring: 20.02.2024

Sample Collected By: Ganesh

Sample Registration Date: 21.02.2024

Analysis Starting Date: 21.02.2024

Analysis Completed Date: 27.02.2024

Issue Date: 27.02.2024

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

TEST RESULT

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

Note: IS- Indian Standard

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

ANNEXURE-VI

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

TEST RESULT

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

K.S.Lag
Verified by



DA
Authorized by
Managing Director

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

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

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

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

Note: IS- Indian Standard

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

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

TEST RESULT

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

REFERENCE TEST DATA

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

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

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

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

TEST RESULT

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

K.S.Lag
Verified by



DA
Authorized by
Managing Director

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

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

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

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

Note: IS- Indian Standard

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

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

TEST RESULT

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

REFERENCE TEST DATA

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

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

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

ANNEXURE-VII

TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Water

Product: STP OUTLET

Date of Monitoring: 23.11.2023

Sample Collected By: Ganesh

Sample Registration Date: 24.11.2023

Analysis Starting Date: 24.11.2023

Analysis Completed Date: 30.11.2023

Issue Date: 01.12.2023

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

TEST RESULT

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

Note: IS-Indian Standard

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Water

Product: STP OUTLET

Date of Monitoring: 20.02.2024

Sample Collected By: Ganesh

Sample Registration Date: 21.02.2024

Analysis Starting Date: 21.02.2024

Analysis Completed Date: 27.02.2024

Issue Date: 27.02.2024

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

TEST RESULT

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

Note: IS-Indian Standard

K.S.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

ANNEXURE-IX

ISSUED TO:

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

Group: Atmospheric Pollution

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

Sampling Location-1: Main Gate

Sample Registration Date: 24.11.023

Issue Date: 30.11.2023

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

TEST RESULT

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

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

Instrument Details: Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097640

Calibration Due : 28.02.2024

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Group: Atmospheric Pollution

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

Sampling Location-2: BTG Area

Sample Registration Date: 24.11.023

Issue Date: 30.11.2023

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

TEST RESULT

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

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

Instrument Details: Sound Level Meter

Make/Model : Standard/SC-05

Serial No : 200525272

Calibration Due : 28.02.2024

K.S.Laj
Verified by



DA
Authorized by
Managing Director



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

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

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



SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Group: Atmospheric Pollution

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

Sampling Location-3: Coal Handling Plant

Sample Registration Date: 24.11.023

Issue Date: 30.11.2023

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

TEST RESULT

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

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

Instrument Details: Sound Level Meter

Make/Model : Lutron /SL-34001

Serial No : Q6352440

Calibration Due : 28.02.2024

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Group: Atmospheric Pollution

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

Sampling Location-4: Pattapupalem Village

Sample Registration Date: 24.11.023

Issue Date: 30.11.2023

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

TEST RESULT

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

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

Instrument Details: Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097641

Calibration Due : 28.02.2024

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Group: Atmospheric Pollution

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

Sampling Location-5: Painampuram Village

Sample Registration Date: 24.11.023

Issue Date: 30.11.2023

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

TEST RESULT

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

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

Instrument Details: Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097642

Calibration Due : 28.02.2024

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Group: Atmospheric Pollution

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

Sampling Location-6: Nelaturu Village

Sample Registration Date: 24.11.023

Issue Date: 30.11.2023

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

TEST RESULT

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

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

Instrument Details: Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097643

Calibration Due : 28.02.2024

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Group: Atmospheric Pollution

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

Date of Sampling: 23-11-2023

Sample Registration Date: 24.11.023

Issue Date: 30.11.2023

Lab Ref: SEPL/ES/SEILEIP/11-23/0007

TEST RESULT

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

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Group: Atmospheric Pollution

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

Sampling Location-1: Main Gate

Sample Registration Date: 21.02.2024

Issue Date: 27.02.2024

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

TEST RESULT

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

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

Instrument Details: Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097640

Calibration Due : 28.02.2025

K.S.Laj
Verified by



DA
Authorized by
Managing Director



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

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

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



SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Group: Atmospheric Pollution

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

Sampling Location-2: BTG Area

Sample Registration Date: 21.02.2024

Issue Date: 27.02.2024

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

TEST RESULT

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

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

Instrument Details: Sound Level Meter

Make/Model : Standard/SC-05

Serial No : 200525272

Calibration Due : 28.02.2025

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Group: Atmospheric Pollution

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

Sampling Location-3: Coal Handling Plant

Sample Registration Date: 21.02.2024

Issue Date: 27.02.2024

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

TEST RESULT

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

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

Instrument Details: Sound Level Meter

Make/Model : Lutron /SL-34001

Serial No : Q6352440

Calibration Due : 28.02.2025

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Group: Atmospheric Pollution

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

Sampling Location-4: Pattapupalem Village

Sample Registration Date: 21.02.2024

Issue Date: 27.02.2024

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

TEST RESULT

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

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

Instrument Details: Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097641

Calibration Due : 28.02.2025

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Group: Atmospheric Pollution

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

Sampling Location-5: Painampuram Village

Sample Registration Date: 21.02.2024

Issue Date: 27.02.2024

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

TEST RESULT

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

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

Instrument Details: Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097642

Calibration Due : 28.02.2025

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Group: Atmospheric Pollution

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

Sampling Location-6: Nelaturu Village

Sample Registration Date: 21.02.2024

Issue Date: 27.02.2024

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

TEST RESULT

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

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

Instrument Details: Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097643

Calibration Due : 28.02.2025

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Group: Atmospheric Pollution

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

Date of Sampling: 20-02-2024

Sample Registration Date: 21.02.2024

Issue Date: 27.02.2024

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

TEST RESULT

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

K.S.Lal
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

ANNEXURE-X

ISSUED TO:

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – October 2023

Location-1: Fire Station (Plant)

Sample Registration Date: 01.11.2023

Issue Date: 07.11.2023

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

Sample collected person details: S. Ganesh

TEST RESULT

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

Instruments Details:

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

Instruments Details:

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

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring –October 2023

Location-2: Pattapupalem village

Sample Registration Date: 01.11.2023

Issue Date: 07.11.2023

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

Sample collected person details: S. Ganesh

TEST RESULT

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

(2x660 MW Coal Based Thermal Power Plant),

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

SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring –October 2023

Location-3: Painampuram Village

Sample Registration Date: 01.11.2023

Issue Date: 07.11.2023

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

Sample collected person details: S. Ganesh

TEST RESULT

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

Instruments Details:

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

Instruments Details:

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

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring –October 2023

Location-4: Nelaturu Village

Sample Registration Date: 01.11.2023

Issue Date: 07.11.2023

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

Sample collected person details: S. Ganesh

TEST RESULT

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

Instruments Details:

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

Instruments Details:

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

K.S.Laj
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

SUMMARY OF AMBIENT AIR QUALIT OCTOBER 2023

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

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring –November 2023

Location-1: Fire Station (Plant)

Sample Registration Date: 29.12.2023

Issue Date: 03.12.2023

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

Sample collected person details: S. Ganesh

TEST RESULT

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

Instruments Details:

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

Instruments Details:

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

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

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

TEST RESULT

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

Instruments Details:

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

Instruments Details:

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

K.S. Jay
Verified by



DA
Authorized by
Managing Director

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – November 2023

Location-3: Painampuram Village

Sample Registration Date: 29.12.2023

Issue Date: 03.12.2023

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

Sample collected person details: S. Ganesh

TEST RESULT

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

Instruments Details:

Instrument : Fine Particulate sampler
Model/SI NO : AAQ510 / 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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

(2x660 MW Coal Based Thermal Power Plant)

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

SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – November 2023

Location-4: Nelaturu Village

Sample Registration Date: 29.12.2023

Issue Date: 03.12.2023

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

Sample collected person details: S. Ganesh

TEST RESULT

Date Of Sampling	µg/m ³				mg/m ³	µg/m ³				ng/m ³		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	Pb	O ₃	NH ₃	C ₆ H ₆	BaP	As	Ni
06.11.2023	25.4	21.7	7.8	6.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
07.11.2023	32.8	27.1	7.4	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.11.2023	38.1	34.4	6.4	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.11.2023	44.5	35.5	6.2	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.11.2023	36.7	29.2	7.9	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.11.2023	32.5	26.8	8.2	7.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.11.2023	28.1	23.3	6.6	6.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.11.2023	34.9	28.6	6.5	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	25.4	21.7	6.2	6.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	44.5	35.5	8.2	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	34.1	28.3	7.1	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	43.6	35.3	8.2	8.0	<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 : 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



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

SUMMARY OF AMBIENT AIR QUALITY NOVEMBER 2023

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

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

(2x660 MW Coal Based Thermal Power Plant),

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

SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring –December 2023

Location-1: Fire Station (Plant)

Sample Registration Date: 27.12.2023

Issue Date: 01.01.2024

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

Sample collected person details: S. Ganesh

TEST RESULT

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

Instruments Details:

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

Instruments Details:

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

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO: M/s. SEIL ENERGY INDIA LIMITED PROJECT-1 (2x660 MW Coal Based Thermal Power Plant), Near Pynampuram/ Nelaturu (V), Muthukur (M), SPSR Nellore (Dist.) -524344.	
Discipline: Chemical	Sample Registration Date: 27.12.2023
Group: Atmospheric Pollution	Issue Date: 01.01.2024
Product: Ambient Air Quality Monitoring – December 2023	Lab Ref: SEPL/ES/SEILEILP/12-23/0002
Location-2: Pattapupalem Village	Sample collected person details: S. Ganesh

TEST RESULT

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

Instruments Details:

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

Instruments Details:

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

K.S. Jay
Verified by



DA
Authorized by
Managing Director

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – December 2023

Location-3: Painampuram Village

Sample Registration Date: 27.12.2023

Issue Date: 01.01.2024

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

Sample collected person details: S. Ganesh

TEST RESULTS

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

(2x660 MW Coal Based Thermal Power Plant),

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

SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – December 2023

Location-4: Nelaturu Village

Sample Registration Date: 27.12.2023

Issue Date: 01.01.2024

Lab Ref: SEPL/ES/SEILEILP/12-23/0004

Sample collected person details: S. Ganesh

TEST RESULTS

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

Instruments Details:

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

Instruments Details:

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

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

SUMMARY OF AMBIENT AIR QUALITY DECEMBER 2023

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

K.S. Jay
Verified by



DA
Authorized by
Managing Director

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

M/S. SEIL ENERGY INDIA LIMITED PROJECT-1

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – JANUARY 2024

Location-1: Fire Station (Plant)

Sample Registration Date: 31.01.2024

Issue Date: 08.02.2024

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

Sample collected person details: S. Ganesh

TEST RESULT

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

Instruments Details:

Instrument : Fine Particulate sampler
Model/SI NO : 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



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – JANUARY 2024

Location-2: Pattapupalem village

Sample Registration Date: 31.01.2024

Issue Date: 08.02.2024

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

Sample collected person details: S. Ganesh

TEST RESULT

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

Instruments Details:

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

Instruments Details:

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

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – JANUARY 2024

Location-3: Painampuram Village

Sample Registration Date: 31.01.2024

Issue Date: 08.02.2024

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

Sample collected person details: S. Ganesh

TEST RESULT

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – JANUARY 2024

Location-4: Nelaturu Village

Sample Registration Date: 31.01.2024

Issue Date: 08.02.2024

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

Sample collected person details: S. Ganesh

TEST RESULT

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

Instruments Details:

Instrument : Fine Particulate sampler
Model/SI NO : 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-JANUARY 2024

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

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – FEBRUARY 2024

Location-1: Fire Station (Plant)

Sample Registration Date: 28.02.2024

Issue Date: 04.03.2024

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

Sample collected person details: S. Ganesh

TEST RESULT

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

Instruments Details:

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

Instruments Details:

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

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – FEBRUARY 2024

Location-2: Pattapupalem village

Sample Registration Date: 28.02.2024

Issue Date: 04.03.2024

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

Sample collected person details: S. Ganesh

TEST RESULT

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

Instruments Details:

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

Instruments Details:

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

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – FEBRUARY 2024

Location-3: Painampuram Village

Sample Registration Date: 28.02.2024

Issue Date: 04.03.2024

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

Sample collected person details: S. Ganesh

TEST RESULT

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

Instruments Details:

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

Instruments Details:

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

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – FEBRUARY 2024

Location-4: Nelaturu Village

Sample Registration Date: 28.02.2024

Issue Date: 04.03.2024

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

Sample collected person details: S. Ganesh

TEST RESULT

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

Instruments Details:

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

Instruments Details:

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

K.S.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

SUMMARY OF AMBIENT AIR QUALITY-FEBRUARY 2024

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

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

M/S. SEIL ENERGY INDIA LIMITED PROJECT-1

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – MARCH 2024

Location-1: Fire Station (Plant)

Sample Registration Date: 28.03.2024

Issue Date: 03.04.2024

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

Sample collected person details: S. Ganesh

TEST RESULT

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

Instruments Details:

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

Instruments Details:

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

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – MARCH 2024

Location-2: Pattapupalem village

Sample Registration Date: 28.03.2024

Issue Date: 03.04.2024

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

Sample collected person details: S. Ganesh

TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				mg/m^3	$\mu\text{g}/\text{m}^3$				ng/m^3		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	Pb	O ₃	NH ₃	C ₆ H ₆	BaP	As	Ni
03.04.2024	41.3	38.6	14.5	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
05.03.2024	35.1	31.4	19.3	8.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.03.2024	38.7	36.3	16.1	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.03.2024	26.2	25.5	11.6	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.03.2024	43.8	39.7	17.4	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.03.2024	37.5	33.2	15.2	10.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.03.2024	39.6	37.1	12.7	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.03.2024	33.4	32.9	18.8	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	26.2	25.5	11.6	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	43.8	39.7	19.3	10.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	37.0	34.3	15.7	9.0	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	43.5	39.5	19.2	10.0	<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 / 220831
Make : SSE (Shree Scientific Equipment)
Calibration Due : 28.02.2025

Instruments Details:

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

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – MARCH 2024

Location-3: Painampuram Village

Sample Registration Date: 28.03.2024

Issue Date: 03.04.2024

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

Sample collected person details: S. Ganesh

TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				mg/m^3	$\mu\text{g}/\text{m}^3$				ng/m^3		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	Pb	O ₃	NH ₃	C ₆ H ₆	BaP	As	Ni
03.04.2024	28.4	25.3	10.1	9.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
05.03.2024	32.6	29.5	15.9	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.03.2024	26.2	24.1	13.2	9.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.03.2024	23.7	19.6	18.8	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.03.2024	35.1	32.4	12.5	10.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.03.2024	37.3	36.2	16.3	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.03.2024	25.9	23.9	11.6	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.03.2024	31.8	28.7	14.7	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	23.7	19.6	10.1	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	37.3	36.2	18.8	10.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	30.1	27.5	14.1	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	37.0	35.7	18.5	10.2	<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: 28.02.2025

Instruments Details:

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

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – MARCH 2024

Location-4: Nelaturu Village

Sample Registration Date: 28.03.2024

Issue Date: 03.04.2024

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

Sample collected person details: S. Ganesh

TEST RESULT

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

Instruments Details:

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

Instruments Details:

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

K.S.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

SUMMARY OF AMBIENT AIR QUALITY- MARCH 2024

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

K.S.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

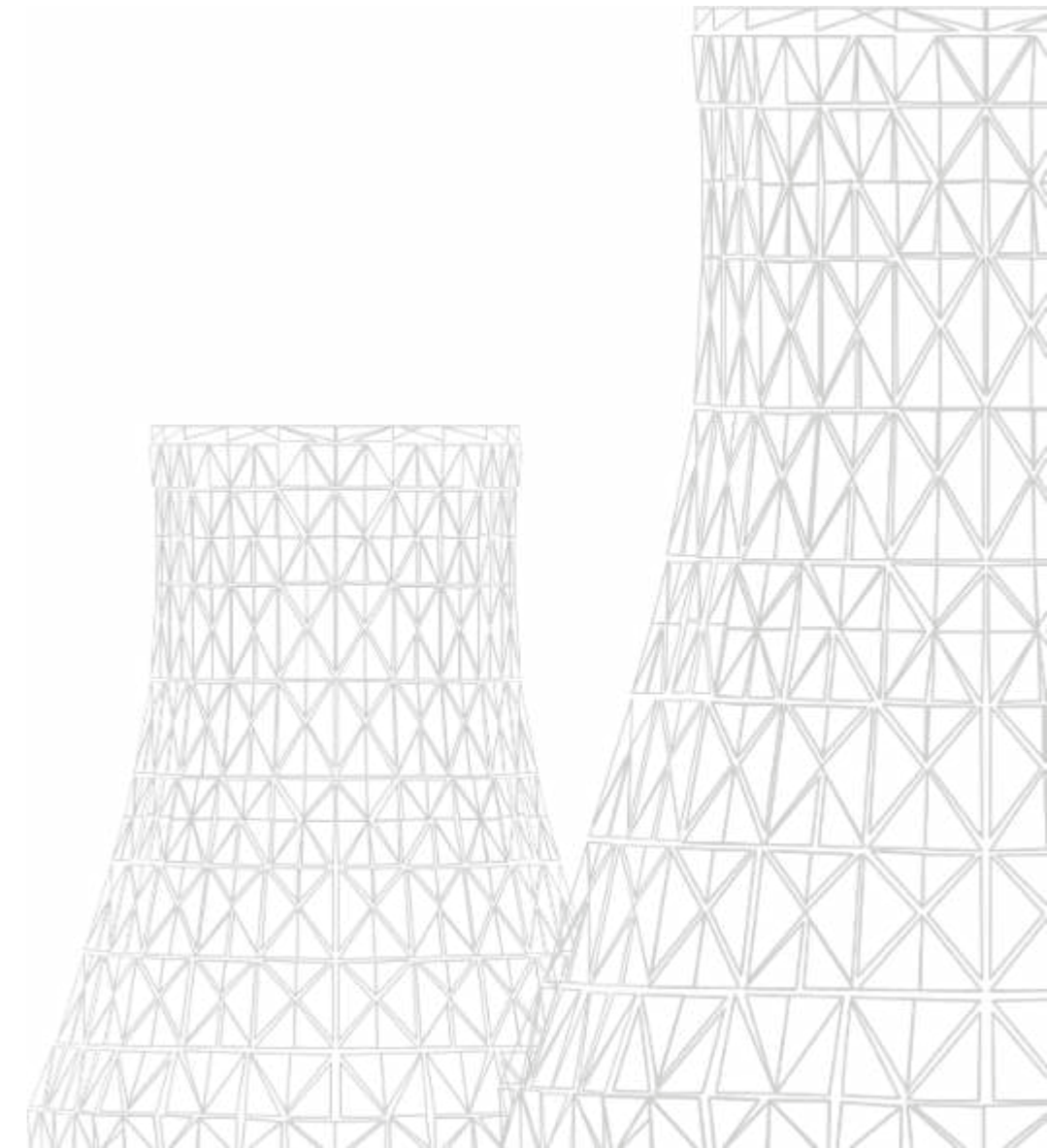




ANNEXURE-XI

CSR Updates

HY-2 FY2023-24





HEALTH

- **Mobile Medical Unit (MMU):**
Consultation provided to 3703 villagers
(Female-1857, Male-1410, Female Child- 213, Male Child- 223).
- **Eye Screening Camps:**
Eye Screenings were done for 3025 Community members.
- **Telemedicine Center:** Total beneficiaries :2407;
General consultations- 2247;
Specialty Consultations – 160;
Social Health Education Programmes beneficiaries- 554;
Pharmacy - 2251 ; Lab Investigations - 437 ;
Non- Communicable Disease Screenings - 280 beneficiaries.
- **Audiometry Screening Camps:**
Ear Screenings were done for 3348Community members
- **Distribution of Nutrition Kits to TB Patients :**
Nutrition Food kits were distributed to 500 TB Patients .





Education

- Shri. Kakani Govardhan Reddy Garu, Hon'ble Minister for Agriculture & Cooperation, Marketing, Food Processing, Govt of Andhra Pradesh Inaugurated the renovated building at Podalakuru junior College benefiting 360 students of rural communities
- Quality Education Intervention initiatives with Bala Raksha Bharath (Save the Children) is being implemented in 20 government Schools.
- Two-day teachers training programme conducted on remedial teaching techniques to 45 Government schools' subject teachers (Telugu, English and Social).
- One day Training conducted to 14 schools' headmasters and subject teachers on LIP implementation strategies and approach
- SEIL has collaborated with Sambhav Foundation, a Bangalore based not for profit organization, for providing "Career Counseling to government school students in Classes IX to XII . The programme was formally inaugurated on 20th December 2023 at Thotapalli Gudur Junior College. 500 students are undergoing career counseling programme



Inauguration of Renovated Buildings



Inauguration of Teachers Training programme.



Inauguration of Career Counseling programme

GLIMPSES OF CSR ACTIVITIES- EDUCATION- (3/5)



Renovation of Junior College Buildings at Podalakuru



Quality Education Intervention



Career Counseling Programme



CSR UPDATES – 4/5

For Q3 FY23-24



DECARBONISATION & OTHERS

- 11000 saplings have been planted in 25 acres of Harith Phase 2 plantation at the Vikram Simhapuri University (VSU) and the survival rate is 100%.
- Skill Development Trainings Programme for employability is in progress in the communities . Total 210 numbers completed training (Data Entry Operator -172 Web Developer – 38 Numbers)
- SEIL has provided 10 number of high-end computers to Social and Media monitoring cell at District Police Office, Nellore. The cell was inaugurated by Shri K. Tirumaleshwara Reddy, SP, SPSR Nellore district
- SEIL was awarded the best CSR Impact Award for our environment project which covered initiatives on Solar and Plantation by UBS forums on 6th December



Project Harith Phase-2



Inauguration of district social and media monitoring Cell



CSR Impact Award

GLIMPSES OF BOARD MEMBERS VISIT –(5/5)



MEETING WITH NGO PARTNERS



CERTIFICATE DISTRIBUTION TO TRAINEES AT SEDC



MOBILE MEDICAL UNIT



HEALTH AND WELLNESS CENTER



INAGURATION OF ULTRASOUND MACHINE AT IRCS



ON GRID SOLAR INSTALLATION AT IRCS





HEALTH

- **Mobile Medical Unit (MMU):**
Consultation provided to 3640 villagers
(Female-1851, Male-1428, Female Child- 184, Male Child- 177).
- **Eye Screening Camps:**
Eye Screenings were done for 7536 Community members.
- **Telemedicine Center:** Total beneficiaries:2621;
General consultations-2414;
Specialty Consultations – 207;
Social Health Education Programmes beneficiaries- 631;
Pharmacy -2435; Lab Investigations -1086;
Non-Communicable Disease Screenings - 692 beneficiaries.
- **Audiometry Screening Camps:**
Ear Screenings were done for 8242 Community members
650 Hearing Aids were distributed to community members





Education

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

- Implemented in 20 government Schools.
- 3922 students enrolled in classes VI to IX were identified for baseline assessment in 20 Government Schools.
- 83% (3258) of students appeared for the baseline test
- 63.5% (2492) of students were identified for the learning improvement program
- 1000 Books on Learning Improvement Programme Distributed to the teachers of ZP High schools in the District
- Remedial classes after school hours are being conducted at four locations providing education services to more than 250 children

➤ **Career counseling to Government School Students in Classes IX to XII. (Shambhav Foundation)**

- 500 students from 5 government schools and One Junior college completed 40 hours of training.

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

- The program is in progress in 8 Anganwadi centers Benefiting 113 Schoolchildren



Teachers training on LIP at DIET, Pallipadu



DEO, MEO and HM training on LIP at DIET



Base Line Assessment Process Monitoring

Quality Education Intervention



Learning Improvement Programme materials Distribution



Remedial classes

Transforming Preprimary Education



Career Counseling Programme



- 11,000 saplings have been planted in 25 acres of Harith Phase 2 plantation at the Vikram Simhapuri University (VSU)



Project Harith Phase-2



**DECARBONISATION
&
OTHERS**

Thank You

SEIL Project-1 Environment Expenditure			
S.No	Area	Particulars	Expenses in Rs.
1	CHP	Operations (CHP)	13,103,450
2		Mechanical Maintnenace	36,448,500
3		Electrical Maintnenace	12,110,000
4		Coal Yard Sprinklers	3,440,000
5		DFDS System	420,000
6	AHP	Operations	3,712,346
7		Mechanical Maintnenace	1,530,000
8		Electrical Maintnenace	3,910,000
9		C&I Maintenance	3,950,000
10	Others	Green Belt	8,882,960



SPECTRA ENVIROTECH PVT LTD

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

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

ANNEXURE-XIII

TEST REPORT

ISSUED TO: M/s. SEIL ENERGY INDIA LIMITED PROJECT-1 (2x660 MW Coal Based Thermal Power Plant), Near Pynampuram / Nelaturu (V), Muthukur (M), SPSR Nellore (Dist.) -524344.	
Discipline: Chemical	Sample Registration Date: 24.11.2023
Group: Water	Analysis Starting Date: 24.11.2023
Product: Heavy Metal Analysis of Coal- November 2023	Analysis Completed Date: 30.11.2023
Sample Location: Coal Feeder#1	Issue Date: 01.12.2023
Date of Monitoring: 23.11.2023	Lab Ref: SEPL/ES/SEILEILP/11-23/0001
Sample Collected By: Ganesh	

TEST RESULT

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

Note: USEPA- United States Environmental Protection Agency

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

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

Discipline: Chemical

Group: Water

Product: Heavy Metal Analysis of Coal - February 2024

Sample Location: Coal Feeder#2

Date of Monitoring: 20.02.2024

Sample Collected By: Ganesh

Sample Registration Date: 21.02.2024

Analysis Starting Date: 21.02.2024

Analysis Completed Date: 27.02.2024

Issue Date: 28.02.2024

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

TEST RESULT

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

Note: USEPA- United States Environmental Protection Agency

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





Certificate Tracking ID / CTID : 2400366
Date of Issue / DOI : 01-Feb-2024
Certificate Serial No. / CSN : ULR-TC1170324000001599F



TC-11703



Radioanalytical Laboratory RADIOACTIVITY TEST CERTIFICATE

ANNEXURE-XIV

Ref : BRIT/RAL/DOM/896-911/MISC/647-662/23-24

To :
M/S. SPECTRA ENVIROTECH PRIVATE LIMITED
PLOT NO. 142/1, ERUVADE JUNCTION,
ERUVADE VILLAGE, SABBAVARAM MANDAL,
VISAKHAPATNAM - 531 035,
ANDHRA PRADESH,
INDIA.

This is regarding the sample of "COAL, FLY ASH & BOTTOM ASH & DOMESTIC COAL" sent for radioactivity analysis vide your letter ref.: SEPL P1/BRIT/NAVI MUMBAI/2023/001 dated 23.12.2023 which as per above letter is drawn from consignment with the following markings, as shown in italics:

NAME & ADDRESS OF THE CUSTOMER : *M/S. SPECTRA ENVIROTECH PRIVATE LIMITED
PLOT NO. 142/1, ERUVADE JUNCTION,
IRUVADA VILLAGE, SABBAVARAM MANDAL,,
VISAKHAPATNAM-531 035
ANDHRA PRADESH
INDIA.*

SAMPLE NAME : *1. SAMPLE ID NO.1 : COAL - SEIL PROJECT-1
2. SAMPLE ID NO.2 : FLY ASH - SEIL PROJECT-1
3. SAMPLE ID NO.3 : BOTTOM ASH - SEIL PROJECT-1
4. SAMPLE ID NO.4 : DOMESTIC COAL - SEIL PROJECT-1*

PLACE OF SAMPLES COLLECTION : *SEIL ENERGY INDIA LIMITED PROJECT-1*

DATE OF SAMPLES COLLECTION : *04.12.2023*

DATE OF RECEIPT OF SAMPLE: 04.01.2024

DATE OF COMPLETION OF TEST: 25.01.2024

The Samples were analysed by HPGe Gamma spectrometry and the values obtained for U-238 , Ra-226, Th-232 and K-40 against each sample is shown in the table below :

Sr. No	SAMPLE NAME	U-238 (Bq/Kg)	Th-232 (Bq/Kg)	Ra-226 (Bq/Kg)	K-40 (Bq/Kg)
1	COAL	3.4 ± 0.4	1.8 ± 0.9	mdl 1.23	21.7 ± 1.9
2	FLY ASH	59.2 ± 1.5	83.9 ± 3.2	59.9 ± 3.7	254 ± 9.7
3	BOTTOM ASH	12.9 ± 0.5	18.1 ± 2.1	9.9 ± 1.1	23.5 ± 1.7
4	DOMESTIC COAL	26.7 ± 1.1	37.8 ± 1.6	28.7 ± 2.8	102 ± 6.2

Opinion: The measurement values are below the clearance level for radionuclides of natural origin in bulk solid materials, as per AERB directive 01/2010 (table-3) dated 26/11/2010.

Note: (i) The report pertains to the given sample only. (ii) The sample will be retained in this laboratory for a period of 1 month from certificate date and thereafter it will be disposed off. (iii) This report shall not be reproduced except in full, without written approval of the laboratory. (iv) The sampling is not done by this laboratory.

Checked by:
GANPAT B NAKTI
Assistant

Authorized Signatory:
AJAY NANA THAMKE
OIC, RAL

***** End of Report *****

1/1

The authenticity of this certificate is verifiable. Please scan the QR code using a QR scanning application on any mobile devices. Upon redirection you must enter the necessary information in landing page <https://eportal.britatom.gov.in>. We will then revert you back with a digital copy of the certificate in your verified e-mail ID. In accordance to IT Act 2000 (21 of 2000), this document is generated electronically through a validated s/w and need no physical/ digital signature(s).





SEIL ENERGY INDIA LIMITED

QUALITY, OCCUPATIONAL HEALTH, SAFETY AND ENVIRONMENT POLICY

QUALITY POLICY

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

OCCUPATIONAL HEALTH, SAFETY AND ENVIRONMENT POLICY

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

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

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

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

May 23rd, 2023

Raghav Trivedi
Chief Executive Officer