



SEIL Energy India Limited

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SEIL P1/MoEF&CC/Chennai/2025/002
29th May 2025

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 Environment Clearance (EC) Compliance Report of SEIL Energy India Limited Project-1 for the period from October 2024 to March 2025

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 2024 to March 2025 of SEIL Energy India Limited Project-1, Nellore.

Hope the above is in order.

Thanking you,

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

Gnanadesigan N
Head HSE- SEIL

Encl: As above

Copy To:

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



UNIVERSAL
ENVIRO ASSOCIATES LLP

SINCE 1994

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

Date: 29-05-2025

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,
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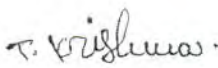
Sub: Third Party Certificate - Half-yearly compliance report on conditions of EC-Reg.
Ref: EC Letter No: J 13012/02/2009-IA. II (T) dated 04-11-2009, amended dated 02.03.2015.

Respected Sir/Madam,

With reference to "Environmental Clearance" issued to **M/s. SEIL Energy India Limited - Project-1**, 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 2024 to March 2025.

Thanking you,

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


(T Krishna)
Technical Manager



Copy to:

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

2nd & 3rd Floor, Plot No.28, Road No.1, Phase-1, IDA Mallapur, Hyderabad - 500 076.

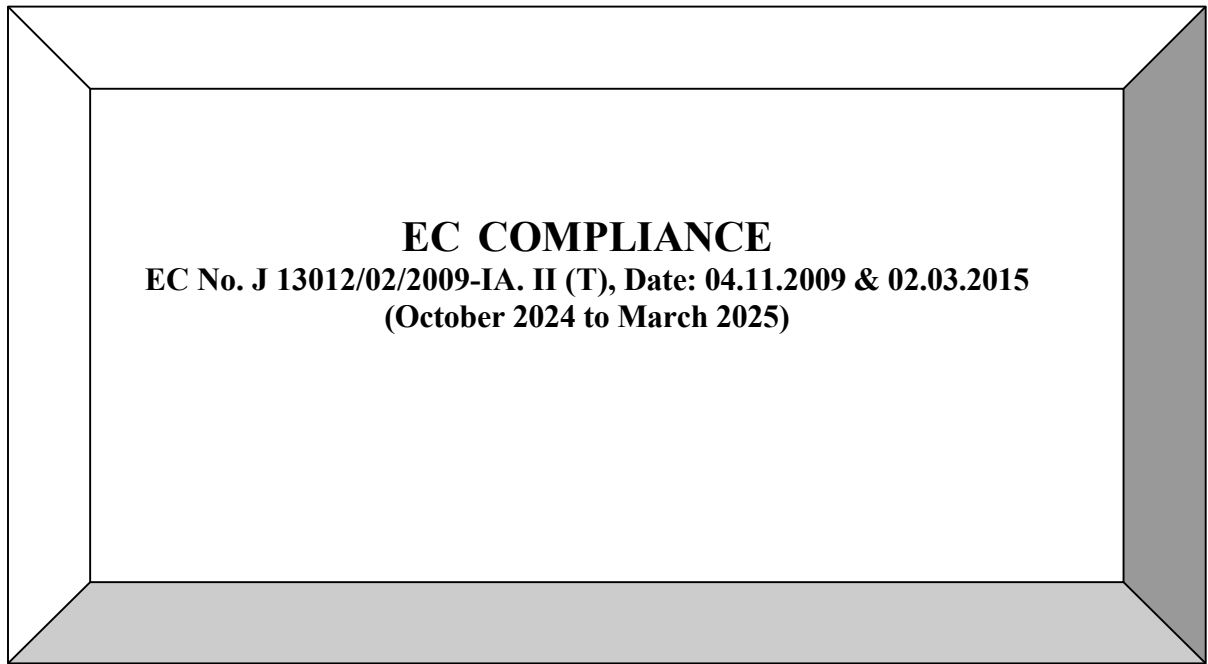
Ph: 040-4890 8772, 98480 16854, e-mail: uea123@gmail.com, www.universalenviro.in

Works: # 140, 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
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 LLP
Accredited by NABL (TC-6239)



Universal Enviro Associates

01. Background:

SEIL Energy India Ltd Project-1 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.



Fig. - 1 (LOCATION MAP)



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

02. Statutory Approvals/Clearances:

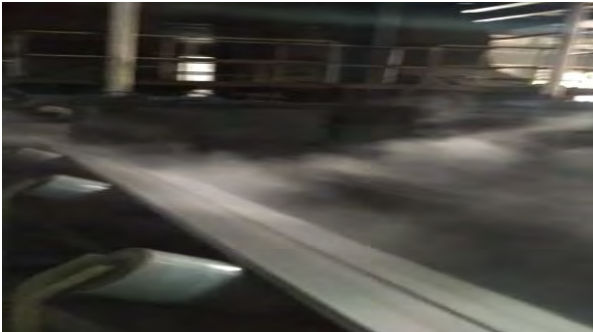
The following statutory approvals and clearances were received for the Project:

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 by MoEF notification to start operations. Accordingly, SEIL commenced its operations by Sept 2015, well within due date.
2	CRZ Clearance	Ministry of Environment & Forests, GOI	F.No. 11-129/2010-IA.III. Dated: 5 th December, 2011
3	Combined Consent for Operation (CFO) for two units	AP Pollution Control Board, Hyderabad	Order No. APPCB/VJA/VJA/930/HO/CFO/2016 Dated: 16 th Nov 2021. Renewed and is valid till 30th November 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.	Complying. SEIL Energy India Limited is achieving 100% fly ash utilization since September 2019. Annual Fly Ash utilization for FY 2024-2025 is submitted to MoEF&CC vide letter No. SEIL P1/MoEF&CC/Chennai/2025/001 dated 26th April 2025.
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.	Complying. 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.  Mercury is being monitored on quarterly basis. Monitored parameters of flue gas is well within prescribed norms. MoEF&CC approved agency monitored Stack Emission Reports are attached as Annexure- I.
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	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm ³ .	Complying. 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. 
v	Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	Complying. More efficient Dry Fog Dust Suppression System (DFDS) has been commissioned and is working efficiently. 

S No.	Condition	Compliance
		Dust suppression systems has been provided at Transfer Points to further minimize fugitive dust. Additional water sprinklers have been provided to suppress fugitive emissions at coal yard. 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.   

S No.	Condition	Compliance
vi	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.	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.  SEIL Energy India Limited Project-1 is achieving 100% fly ash utilization since September 2019. Annual Fly Ash utilization report for FY 2024-2025 vide letter No. SEIL P1/MoEF&CC/Chennai/2025/001 dated 26th April 2025. SEIL has also installed and commissioned fly ash classification unit of 5 Lakh TPA (Tonne per annum) within the site. 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.

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.	Complying. Ash pond is lined with impervious HDPE liner.  The dyke is designed and incorporated safety measures adequate.
viii	Closed cycle cooling system with natural draft cooling towers shall be provided. The Effluents shall be treated as per the prescribed norms.	Complying. Natural Draft Cooling Towers are installed at the site.  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. 

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

S No.	Condition	Compliance
ix	No ground water shall be extracted for the project work at any stage.	Complied. No ground water was extracted for the project work. Entire water requirement of the plant is being met from seawater only.
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.	Complying. Hydrogeology Study is being conducted annually and reports being submitted.
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.	Not applicable. Not applicable as SEIL is not extracting any River/ canal water. Entire water requirement for plant operations is being met through seawater.
xii	The treated effluents conforming to the prescribed standards should be only discharged. Arrangement shall be made that effluents and storm water do not get mixed.	Complying. 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.  Storm water system is adequately designed to avoid mixing with effluents and has a separate disposal system. ETP treated water and Marine outfall water analysis reports are attached as Annexure-V & VI respectively.



S No.	Condition	Compliance
xiii	A sewage treatment plant shall be provided and the treated sewage shall be used for raising greenbelt/plantation.	Complying. Sewage Treatment Plant (STP) is provided and in operational for treating the domestic sewage generated.  The treated domestic wastewater is used for greenbelt development. STP treated water analysis reports are attached as Annexure-VII.
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.	Complying. MoEF&CC approved and NABL Accredited third party lab studies have been carried out and rainwater harvesting pits are constructed and maintained along the storm water drains.  The rainwater from storm water drains is collected in RWH ponds.
xv	Adequate safety measures shall be provided in the plant area to check /minimize spontaneous fires in coal yard, especially during summer season. Copy of these measures with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry.	Complying. The coal yard is provided with fire hydrant system and water sprinklers arrangement to control spontaneous combustion of coal. Photos provided in the report. Plant layout map with coal yard location is attached as Annexure-VIII.

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

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 455 acres area is being brought under green cover in phased wise manner. 3 tier plantation around the plant and adequate tree density has been developed. 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	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.	Complying. 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. Workers are provided with adequate personal protective equipment. Necessary medical examinations are conducted, and records are being maintained. MoEF&CC approved third party Noise Quality Monitoring Reports are attached as Annexure-IX.
xxi	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.	Complied. Continuous AAQM stations (with online analysers) are provided at 4 locations. The data is continuously uploaded to CPCB & APPCB websites on real time basis. 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. MoEF&CC approved third party Ambient Air Quality Monitoring Reports are attached as Annexure-X  

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. SEIL has spent an amount of INR 20.201 crores on CSR related activities for FY2024-25. The details of CSR activities being implemented during October 2024 to March 2025 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 Socio Economic study which was initially conducted and report submitted.



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 IRO, MOEF&CC, the respective Zonal office of CPCB and SPCB. EC Compliance report for the period of Apr 2024 to Sept 2024 was submitted on 28 th November 2024.

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

S No.	Condition	Compliance
xxxi	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 FY 2023-24 has been submitted to APPCB (Ref. No.: SEIL P1/APPCB/BZA/2024/006 dated 27 th September 2024).
xxxii	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests.	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.	Noted. Being complied. The compliance reports are also uploaded in company website. https://www.seilenergy.com/AboutUs/Disclosure The environmental monitored data including Ambient Air Quality for criteria pollutants and stack emission data is being displayed at the main gate.  <u>Main Gate display of AAQ data</u>
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.	Complying. Separate fund is allocated for to Environment protection measures and the expenditure report is attached as Annexure-XII.
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.	Complied and communicated.

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S No.	Condition	Compliance
xxxvi	Full cooperation shall be extended to the Scientists/Officers from the Ministry /Regional Office of the Ministry at Bangalore/CPCB/SPCB who should be monitoring the compliance of environmental status.	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 34782 KWHR for FY 2024-25.
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.



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

S No.	Condition	Compliance
xxxix	Fugitive emissions shall be controlled to prevent impact on agricultural or non-agricultural land.	Complying. Stock Pile 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.  
xl	Space for FGD shall be provided for future installation as may be required.	Complying. Adequate space provision is available.
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.	Complying.

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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.



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

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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.	Complying. SEIL has established an Environment Management Cell with suitable qualified personnel under the supervision of Head-HSE, who reports directly to the Station Head. Services of Marine biologist & ecologist will be hired based on the requirement.
xlvi	The project proponent shall formulate a well laid Corporate Environment Policy and identify and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with the conditions stipulated in this clearance letter and other applicable environmental laws and regulations.	Complied. Environmental Policy is part of the QHSE Policy. QHSE Policy is attached as Annexure-XV .
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.	Noted.
6	The environmental clearance accorded shall be valid for a period of 5 years to start operations by the Power Plant.	Noted. The validity of EC is extended to 7 years by MoEF notification. The 2x660 MW project has already commenced operations since 2015.



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
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



Universal Enviro Associates

*M/s. SEIL Energy India Limited Project-1
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



Universal Enviro Associates

*M/s. SEIL Energy India Limited Project-1
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



Universal Enviro Associates



GREEN COVER ALONG PIPE RACK & INTERNAL ROADS



GREEN COVER INSIDE THE PLANT



GREEN COVER ALONG MAIN PLANT ROAD



AVENUE PLANTATION

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

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GREEN COVER – EAGLE EYE VIEW



GREEN COVER NEAR PLANT SERVICE BUILDING



Universal Enviro Associates



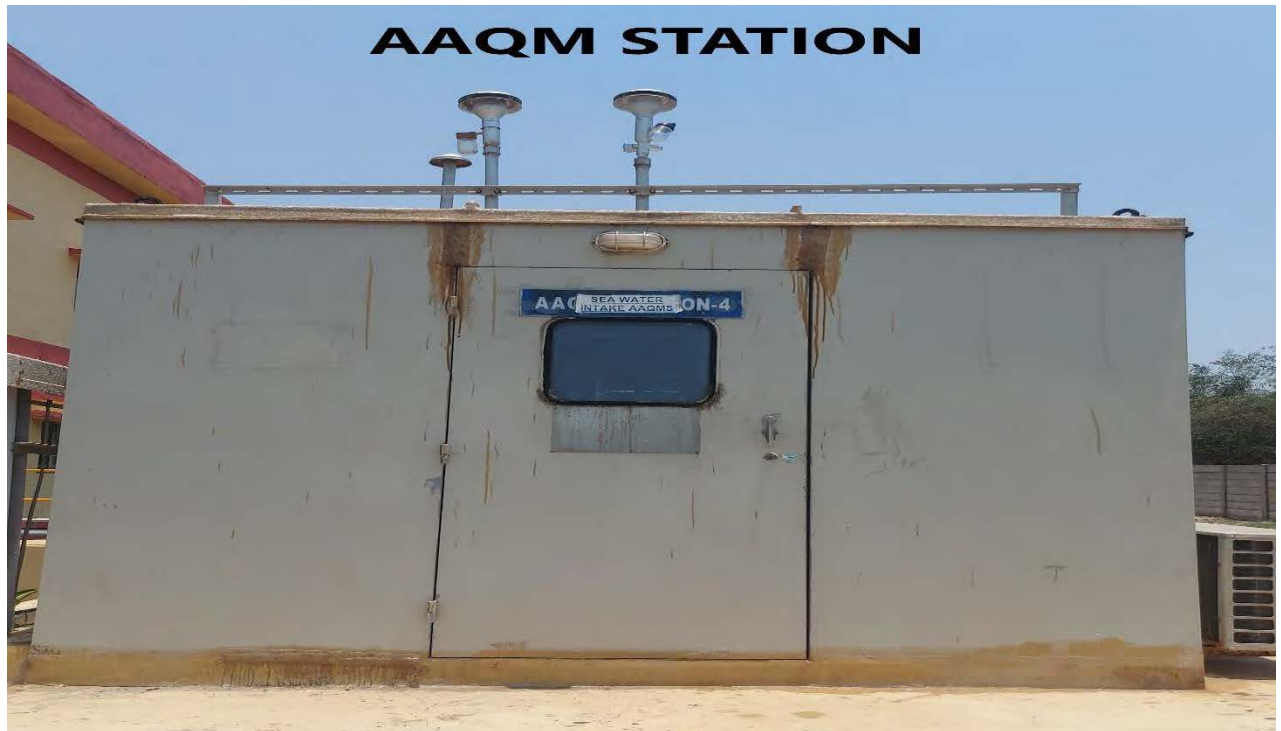
GREEN COVER IN NORTH EAST AREA



COAL YARD WATER SPRINKLING

*M/s. SEIL Energy India Limited Project-1
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



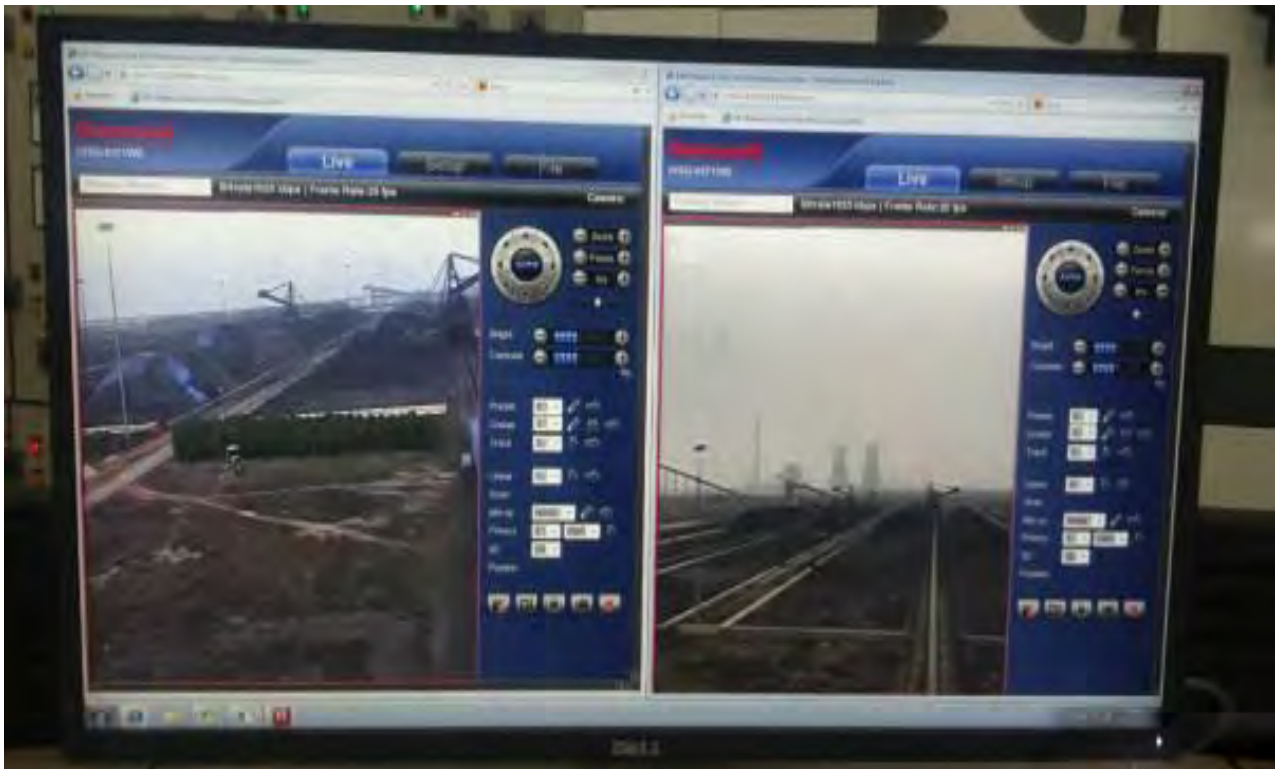
Universal Enviro Associates

*M/s. SEIL Energy India Limited Project-1
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



WIND BREAK PLANTATION AROUND COAL YARD



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



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

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



DUST EXTRACTION SYSTEM AT TRANSFER POINTS



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



Universal Enviro Associates



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

TEST REPORT

ANNEXURE-I

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

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

Group: Atmospheric Pollution

Product: Stack Emission Monitoring- NOVEMBER 2024

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

Date of Monitoring: 14.11.2024

Sample Registration Date: 15.11.2024

Analysis Starting Date: 15.11.2024

Analysis Completed Date: 21.11.2024

Issue Date: 21.11.2024

Lab Ref: SEPL/ES/SEILEILP/11-24/0001

TEST RESULT

1. Time of Sampling ---- : 10:30 Hrs. to 11:25 Hrs.
2. Time Duration : 00:55 Hrs.
3. Ambient Temperature (°C) : 32.1
4. Flue gas Temperature (°C) : 144
5. Velocity of the flue gas (m/sec) : 24.63
6. C/s area of the duct (m²) : 33.20
7. Stack Diameter (m) : 6.5
8. Flue gas Flow Rate (Nm³/Hr) : 2943777.6

S. NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1.	Particulate Matter (PM)	IS 11255 (part-1)1985	mg/Nm ³	<50	39.4
2.	Sulphur Dioxide (SO ₂)	IS 11255 (part-2)1985	mg/Nm ³	-	781
3.	Oxides of Nitrogen (NO _x)	IS 11255 (part-7)1985	mg/Nm ³	450	228
4.	Carbon Monoxide (CO)	NSPS Test Method-10	ppm	-	1.1
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. Jay
Verified by



Praveesh W.
Authorized by
Managing Director

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

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

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





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TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

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

Group: Atmospheric Pollution

Product: Stack Emission Monitoring- NOVEMBER 2024

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

Date of Monitoring: 14.11.2024

Sample Registration Date: 15.11.2024

Analysis Starting Date: 15.11.2024

Analysis Completed Date: 21.11.2024

Issue Date: 21.11.2024

Lab Ref: SEPL/ES/SEILEILP/11-24/0002

TEST RESULT

1. Time of Sampling ---- : 11:30 Hrs. to 12:25 Hrs.
2. Time Duration : 00:55 Hrs.
3. Ambient Temperature ($^{\circ}\text{C}$) : 34.2
4. Flue gas Temperature ($^{\circ}\text{C}$) : 146
5. Velocity of the flue gas (m/sec) : 24.58
6. C/s area of the duct (m^3) : 33.20
7. Stack Diameter (m) : 6.5
8. Flue gas Flow Rate (Nm^3/Hr) : 2937801.6

S. NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1.	Particulate Matter (PM)	IS 11255 (part-1)1985	mg/Nm^3	<50	37.8
2.	Sulphur Dioxide (SO_2)	IS 11255 (part-2)1985	mg/Nm^3	-	986
3.	Oxides of Nitrogen (NO_x)	IS 11255 (part-7)1985	mg/Nm^3	450	288
4.	Carbon Monoxide (CO)	NSPS Test Method-10	ppm	-	1.4
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

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TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

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

Group: Atmospheric Pollution

Product: Stack Emission Monitoring- FEBRUARY 2025

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

Date of Monitoring: 17.02.2025

Sample Registration Date: 18.02.2025

Analysis Starting Date: 18.02.2025

Analysis Completed Date: 24.02.2025

Issue Date: 24.02.2025

Lab Ref: SEPL/ES/SEILEILP/02-25/0001

TEST RESULT

1. Time of Sampling ---- : 10:10 Hrs. to 11:05 Hrs.
2. Time Duration : 00:55 Hrs.
3. Ambient Temperature (°C) : 31.4
4. Flue gas Temperature (°C) : 142
5. Velocity of the flue gas (m/sec) : 25.24
6. C/s area of the duct (m³) : 33.20
7. Stack Diameter (m) : 6.5
8. Flue gas Flow Rate (Nm³/Hr): 2778564.48

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1.	Particulate Matter (PM)	IS 11255 (part-1)1985	mg/Nm ³	<50	36.2
2.	Sulphur Dioxide (SO ₂)	IS 11255 (part-2)1985	mg/Nm ³	-	778
3.	Oxides of Nitrogen (NO _x)	IS 11255 (part-7)1985	mg/Nm ³	450	222
4.	Carbon Monoxide (CO)	NSPS Test Method-10	ppm	-	1.2
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 : 27.02.2026

K.S.Laj
Verified by



Praveesh W.
Authorized by
Managing Director

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TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

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

Group: Atmospheric Pollution

Product: Stack Emission Monitoring- FEBRUARY 2025

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

Date of Monitoring: 17.02.2025

Sample Registration Date: 18.02.2025

Analysis Starting Date: 18.02.2025

Analysis Completed Date: 24.02.2025

Issue Date: 24.02.2025

Lab Ref: SEPL/ES/SEILEILP/02-25/0002

TEST RESULT

1. Time of Sampling ---- : 11:20 Hrs. to 12:15 Hrs.
2. Time Duration : 00:55 Hrs.
3. Ambient Temperature (°C) : 33.5
4. Flue gas Temperature (°C) : 147
5. Velocity of the flue gas (m/sec) : 25.42
6. C/s area of the duct (m³) : 33.20
7. Stack Diameter (m) : 6.5
8. Flue gas Flow Rate (Nm³/Hr) : 3062102.4

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1.	Particulate Matter (PM)	IS 11255 (part-1)1985	mg/Nm ³	<50	34.1
2.	Sulphur Dioxide (SO ₂)	IS 11255 (part-2)1985	mg/Nm ³	-	882
3.	Oxides of Nitrogen (NO _x)	IS 11255 (part-7)1985	mg/Nm ³	450	294
4.	Carbon Monoxide (CO)	NSPS Test Method-10	ppm	-	1.6
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 : 27.02.2026

K.S. Jay
Verified by



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TEST REPORT

ANNEXURE-II

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

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

Discipline: Chemical

Group: Water

Product: Heavy Metal Analysis of Fly Ash- NOVEMBER 2024

Date of Monitoring: 14.11.2024

Sample Collected By: Ganesh

Sample Registration Date: 15.11.2024

Analysis Starting Date: 15.11.2024

Analysis Completed Date: 21.11.2024

Issue Date: 21.11.2024

Lab Ref: SEPL/ES/SEILEILP/11-24/0001

TEST RESULT

S. No	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	Ppm	5.0	0.76
2	Mercury as Hg	USEPA-3050B Dec-1996(Rev.2)	Ppm	0.2	<0.03
3	Chromium as Cr	USEPA-3050B Dec-1996(Rev.2)	Ppm	5.0	0.38
4	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	Ppm	5.0	0.62

Note: USEPA- United States Environmental Protection Agency

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TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

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

Discipline: Chemical

Group: Water

Product: Heavy Metal Analysis of Bottom Ash- NOVEMBER 2024

Date of Monitoring: 14.11.2024

Sample Collected By: Ganesh

Sample Registration Date: 15.11.2024

Analysis Starting Date: 15.11.2024

Analysis Completed Date: 21.11.2024

Issue Date: 21.11.2024

Lab Ref: SEPL/ES/SEILEILP/11-24/0002

TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1.	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	Ppm	5.0	0.61
2.	Mercury as Hg	USEPA-3050B Dec-1996(Rev.2)	Ppm	0.2	<0.02
3.	Chromium as Cr	USEPA-3050B Dec-1996(Rev.2)	ppm	5.0	0.52
4.	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	ppm	5.0	0.39

Note: USEPA- United States Environmental Protection Agency

K.S.Laj
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TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

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

Discipline: Chemical

Group: Water

Product: Heavy Metal Analysis of Fly Ash- FEBRUARY 2025

Date of Monitoring: 17.02.2025

Sample Collected By: Ganesh

Sample Registration Date: 18.02.2025

Analysis Starting Date: 18.02.2025

Analysis Completed Date: 24.02.2025

Issue Date: 24.02.2025

Lab Ref: SEPL/ES/SEILEILP/02-25/0001

TEST RESULT

S. No	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	Ppm	5.0	0.72
2	Mercury as Hg	USEPA-3050B Dec-1996(Rev.2)	Ppm	0.2	<0.03
3	Chromium as Cr	USEPA-3050B Dec-1996(Rev.2)	Ppm	5.0	0.42
4	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	Ppm	5.0	0.65

Note: USEPA- United States Environmental Protection Agency

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

TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

(2x660 MW Coal Based Thermal Power Plant),

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

SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Water

Product: Heavy Metal Analysis of Bottom Ash- FEBRUARY 2025

Date of Monitoring: 17.02.2025

Sample Collected By: Ganesh

Sample Registration Date: 18.02.2025

Analysis Starting Date: 18.02.2025

Analysis Completed Date: 24.02.2025

Issue Date: 24.02.2025

Lab Ref: SEPL/ES/SEILEILP/02-25/0002

TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1.	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	Ppm	5.0	0.66
2.	Mercury as Hg	USEPA-3050B Dec-1996(Rev.2)	Ppm	0.2	<0.02
3.	Chromium as Cr	USEPA-3050B Dec-1996(Rev.2)	ppm	5.0	0.48
4.	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	ppm	5.0	0.34

Note: USEPA- United States Environmental Protection Agency

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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: 14.11.2024

Sample Registration Date: 15.11.2024

Analysis Starting Date: 15.11.2024

Analysis Completed Date: 21.11.2024

Issue Date: 21.11.2024

Lab Ref: SEPL/ES/SEILEILP/11-24/0001

Sample Collected By: Ganesh

TEST RESULT

S. NO.	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS AS PER IS:10500		RESULTS	
				ACCEPTABLE	PERMISSIBLE	PW-1	PW-2
1	pH	IS3025(P-11)2021	--	6.5- 8.5	No Relaxation	7.2	7.7
2	Color	IS3025(P-04)2021	Hazen	1.0	5.0	1.1	1.0
3	Turbidity	IS3025(P-10)1984	NTU	1.0	5.0	0.4	0.2
4	Electric Conductivity	IS3025(P-14)2013	µs/cm	--	--	1,131	1,146
5	Temperature	--	°C	--	--	24.9	21.3
6	Total Suspended Solids	IS3025(P-17)1984	mg/l	--	--	26	30
7	Total Dissolved Solids	IS3025(P-16)1984	mg/l	500	2000	465	389
8	Total Hardness as CaCO ₃	IS3025(P-23)1986	mg/l	200	600	193	162
9	Total Alkalinity as CaCO ₃	IS3025(P-23)1986	mg/l	200	600	166	171
10	Calcium as Ca	IS3025(P-40)1991	mg/l	75	200	34.2	46.6
11	Magnesium as Mg	IS3025(P-40)1991	mg/l	30	100	31.1	32.4
12	Free Residual Chlorine	IS3025(P-26)1986	mg/l	0.2	No Relaxation	<0.1	<0.1
13	Boron as B	IS3025(P-57)2021	mg/l	0.5	1.0	<0.1	<0.1
14	Calcium Hardness as CaCO ₃	IS3025(P-40)1991	mg/l	--	--	146	162
15	Magnesium Hardness as CaCO ₃	IS3025(P-40)1991	mg/l	--	--	81	92
16	Sodium as Na	IS3025(P-45)1993	mg/l	--	--	134	149
17	Potassium as K	IS3025(P-45)1993	mg/l	--	--	30	25
18	Chloride as Cl	IS3025(P-32)1988	mg/l	250	1000	164	176

K.S. Jay
Verified by



Praveesh W.
Authorized by
Managing Director

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S. NO.	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS AS PER IS:10500		RESULTS	
				ACCEPTABLE	PERMISSIBLE	PW-1	PW-2
19	Sulphates as SO ₄	IS3025(P-24)1986	mg/l	200	400	72.9	83.1
20	Nitrates as NO ₃	IS3025(P-34)1988	mg/l	45	No Relaxation	25.4	31.2
21	Chemical Oxygen Demand	IS3025(P-58)2006	mg/l	--	--	<5.0	<5.0
22	Biochemical Oxygen Demand (3 days at 27°C)	IS3025(P-44)1993	mg/l	--	--	<3.0	<3.0
23	Iron as Fe	IS3025(P-53)2003	mg/l	<0.3	No Relaxation	0.03	0.04
24	Fluoride as F	IS3025(P-60)2008	mg/l	<1.0	<1.5	0.67	0.73
25	Copper as Cu	IS3025(P-42)1992	mg/l	<0.05	<1.5	<0.01	<0.01
26	Manganese as Mn	IS3025(P-59)2006	mg/l	<0.1	<0.3	<0.1	<0.1
27	Phenolic Compounds as C ₆ H ₅ OH	IS3025(P-43)1992	mg/l	<0.001	<0.002	<0.001	<0.001
28	Cadmium as Cd	IS3025(P-41)1992	mg/l	<0.003	No Relaxation	<0.001	<0.001
29	Mercury as Hg	IS3025(P-48)1994	mg/l	<0.001	No Relaxation	<0.001	<0.001
30	Selenium as Se	IS3025(P-56)2003	mg/l	<0.01	No Relaxation	<0.01	<0.01
31	Total Arsenic as As	IS3025(P-37)1988	mg/l	<0.01	<0.20	<0.01	<0.01
32	Cyanide as CN	IS3025(P-27)1986	mg/l	<0.05	No Relaxation	<0.01	<0.01
33	Lead as Pb	IS3025(P-47)1994	mg/l	<0.01	No Relaxation	<0.01	<0.01
34	Zinc as Zn	IS3025(P-49)1994	mg/l	<5.0	<15	<0.01	<0.01
35	Total Chromium as Cr ⁺⁶	IS3025(P-52)2003	mg/l	<0.05	<1.0	<0.01	<0.01
36	Aluminium as Al	IS3025(P-55)2003	mg/l	0.5	1.0	<0.01	<0.01
37	Pesticides	As per STP	mg/l	--	No Relaxation	<0.01	<0.01
38	Dissolved Oxygen	IS3025(P-38)1989	mg/l	--	--	4.1	4.4
39	Oil & Grease	IS3025(P-39)2021	mg/l	--	--	<1.0	<1.0
40	Phosphates as PO ₄	IS3025(P-31)1998	mg/l	--	--	<0.01	<0.01
41	Percent Sodium	IS3025(P-45)1993	%	--	--	34.2	35.2
42	E-Coli	ISO 9308-1	Per/100ml	Absent/100 ml	Absent/100 ml	Absent	Absent
43	Total Coliforms	ISO 9308-1	Per/100ml	Absent/100 ml	Absent/100 ml	Absent	Absent
44	Fecal Coliforms	IS-1622-1981	MPN/100ml	--	--	Absent	Absent

K.S. Jay
Verified by



Praveesh W.
Authorized by
Managing Director

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

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SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-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: 14.11.2024

Sample Registration Date: 15.11.2024

Analysis Starting Date: 15.11.2024

Analysis Completed Date: 21.11.2024

Issue Date: 21.11.2024

Lab Ref: SEPL/ES/SEILEILP/11-24/0002

Sample Collected By: Ganesh

TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	STANDARDS AS PER IS:10500		RESULTS	
				ACCEPTABLE	PERMISSIBLE	PW-3	PW-4
1	pH	--	IS3025(P-11)2021	6.5- 8.5	No Relaxation	7.3	7.9
2	Color	Hazen	IS3025(P-04)2021	1.0	5.0	1.0	1.1
3	Turbidity	NTU	IS3025(P-10)1984	1.0	5.0	0.2	0.1
4	Electric Conductivity	µs/cm	IS3025(P-14)2013	--	--	1,367	1,432
5	Temperature	°C	--	--	--	25.4	27.1
6	Total Suspended Solids	mg/l	IS3025(P-17)1984	--	--	47	49
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	500	2000	341	352
8	Total Hardness as CaCO ₃	mg/l	IS3025(P-23)1986	200	600	171	186
9	Total Alkalinity as CaCO ₃	mg/l	IS3025(P-23)1986	200	600	184	192
10	Calcium as Ca	mg/l	IS3025(P-40)1991	75	200	63	56
11	Magnesium as Mg	mg/l	IS3025(P-40)1991	30	100	14	29
12	Free Residual Chlorine	mg/l	IS3025(P-26)1986	0.2	No Relaxation	<0.1	<0.1
13	Boron as B	mg/l	IS3025(P-57)2021	0.5	1.0	0.1	0.2
14	Calcium Hardness as CaCO ₃	mg/l	IS3025(P-40)1991	--	--	167	151
15	Magnesium Hardness as CaCO ₃	mg/l	IS3025(P-40)1991	--	--	128	109
16	Sodium as Na	mg/l	IS3025(P-45)1993	--	--	146	128
17	Potassium as K	mg/l	IS3025(P-45)1993	--	--	35	31
18	Chloride as Cl	mg/l	IS3025(P-32)1988	250	1000	192	165

K.S. Jay
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Praveesh W.
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LABORATORY : Plot No 142/1, Eruvada Junction, Sabbavaram (M), Vizag - 531 035

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S. NO.	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS AS PER IS:10500		RESULTS	
				ACCEPTABLE	PERMISSIBLE	PW-3	PW-4
19	Sulphates as SO ₄	IS3025(P-24)1986	mg/l	200	400	86.1	92.7
20	Nitrates as NO ₃	IS3025(P-34)1988	mg/l	45	No Relaxation	31.2	24.5
21	Chemical Oxygen Demand	IS3025(P-58)2006	mg/l	--	--	<5.0	<5.0
22	Biochemical Oxygen Demand (3 days at 27°C)	IS3025(P-44)1993	mg/l	--	--	<3.0	<3.0
23	Iron as Fe	IS3025(P-53)2003	mg/l	<0.3	No Relaxation	0.31	0.26
24	Fluoride as F	IS3025(P-60)2008	mg/l	<1.0	<1.5	0.71	0.86
25	Copper as Cu	IS3025(P-42)1992	mg/l	<0.05	<1.5	<0.01	<0.01
26	Manganese as Mn	IS3025(P-59)2006	mg/l	<0.1	<0.3	<0.1	<0.1
27	Phenolic Compounds as C ₆ H ₅ OH	IS3025(P-43)1992	mg/l	<0.001	<0.002	<0.001	<0.001
28	Cadmium as Cd	IS3025(P-41)1992	mg/l	<0.003	No Relaxation	<0.001	<0.001
29	Mercury as Hg	IS3025(P-48)1994	mg/l	<0.001	No Relaxation	<0.001	<0.001
30	Selenium as Se	IS3025(P-56)2003	mg/l	<0.01	No Relaxation	<0.01	<0.01
31	Total Arsenic as As	IS3025(P-37)1988	mg/l	<0.01	<0.20	<0.01	<0.01
32	Cyanide as CN	IS3025(P-27)1986	mg/l	<0.05	No Relaxation	<0.01	<0.01
33	Lead as Pb	IS3025(P-47)1994	mg/l	<0.01	No Relaxation	<0.01	<0.01
34	Zinc as Zn	IS3025(P-49)1994	mg/l	<5.0	<15	<0.01	<0.01
35	Total Chromium as Cr ⁺⁶	IS3025(P-52)2003	mg/l	<0.05	<1.0	<0.01	<0.01
36	Aluminium as Al	IS3025(P-55)2003	mg/l	0.5	1.0	<0.01	<0.01
37	Pesticides	As per STP	mg/l	--	No Relaxation	<0.01	<0.01
38	Dissolved Oxygen	IS3025(P-38)1989	mg/l	--	--	4.6	4.1
39	Oil & Grease	IS3025(P-39)2021	mg/l	--	--	<1.0	<1.0
40	Phosphates as PO ₄	IS3025(P-31)1998	mg/l	--	--	<0.01	<0.01
41	Percent Sodium	IS3025(P-45)1993	%	--	--	23.2	26.7
42	E-Coli	ISO 9308-1	Per/100ml	Absent/100 ml	Absent/100 ml	Absent	Absent
43	Total Coliforms	ISO 9308-1	Per/100ml	Absent/100 ml	Absent/100 ml	Absent	Absent
44	Fecal Coliforms	IS-1622-1981	MPN/100ml	--	--	Absent	Absent

K.S. Jay
Verified by



Praveesh W.
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TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

(2x660 MW Coal Based Thermal Power Plant),

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

SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Water

Product Water

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

Date of Monitoring: 14.11.2024

Sample Registration Date: 15.11.2024

Analysis Starting Date: 15.11.2024

Analysis Completed Date: 21.11.2024

Issue Date: 21.11.2024

Lab Ref: SEPL/ES/SEILEILP/11-24/0003

Sample Collected By: Ganesh

TEST RESULT

S. NO.	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS AS PER IS:10500		RESULTS
				ACCEPTABLE	PERMISSIBLE	
1	pH	IS3025(P-11)2021	--	6.5- 8.5	No Relaxation	7.9
2	Color	IS3025(P-04)2021	Hazen	1.0	5.0	1.0
3	Turbidity	IS3025(P-10)1984	NTU	1.0	5.0	0.6
4	Electric Conductivity	IS3025(P-14)2013	µs/cm	--	--	1,286
5	Temperature	--	°C	--	--	25.2
6	Total Suspended Solids	IS3025(P-17)1984	mg/l	--	--	42
7	Total Dissolved Solids	IS3025(P-16)1984	mg/l	500	2000	486
8	Total Hardness as CaCO ₃	IS3025(P-23)1986	mg/l	200	600	188
9	Total Alkalinity as CaCO ₃	IS3025(P-23)1986	mg/l	200	600	176
10	Calcium as Ca	IS3025(P-40)1991	mg/l	75	200	62
11	Magnesium as Mg	IS3025(P-40)1991	mg/l	30	100	19
12	Free Residual Chlorine	IS3025(P-26)1986	mg/l	0.2	No Relaxation	<0.1
13	Boron as B	IS3025(P-57)2021	mg/l	0.5	1.0	0.3
14	Calcium Hardness as CaCO ₃	IS3025(P-40)1991	mg/l	--	--	121
15	Magnesium Hardness as CaCO ₃	IS3025(P-40)1991	mg/l	--	--	64
16	Sodium as Na	IS3025(P-45)1993	mg/l	--	--	124
17	Potassium as K	IS3025(P-45)1993	mg/l	--	--	22
18	Chloride as Cl	IS3025(P-32)1988	mg/l	250	1000	186

K.S. Jay
Verified by



Praveesh W.
Authorized by
Managing Director

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

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S. NO.	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS AS PER IS:10500		RESULTS
				ACCEPTABLE	PERMISSIBLE	
19	Sulphates as SO ₄	IS3025(P-24)1986	mg/l	200	400	64.2
20	Nitrates as NO ₃	IS3025(P-34)1988	mg/l	45	No Relaxation	31.1
21	Chemical Oxygen Demand	IS3025(P-58)2006	mg/l	--	--	<5.0
22	Biochemical Oxygen Demand (3 days at 27°C)	IS3025(P-44)1993	mg/l	--	--	<3.0
23	Iron as Fe	IS3025(P-53)2003	mg/l	<0.3	No Relaxation	0.24
24	Fluoride as F	IS3025(P-60)2008	mg/l	<1.0	<1.5	0.47
25	Copper as Cu	IS3025(P-42)1992	mg/l	<0.05	<1.5	<0.01
26	Manganese as Mn	IS3025(P-59)2006	mg/l	<0.1	<0.3	<0.1
27	Phenolic Compounds as C ₆ H ₅ OH	IS3025(P-43)1992	mg/l	<0.001	<0.002	<0.001
28	Cadmium as Cd	IS3025(P-41)1992	mg/l	<0.003	No Relaxation	<0.001
29	Mercury as Hg	IS3025(P-48)1994	mg/l	<0.001	No Relaxation	<0.001
30	Selenium as Se	IS3025(P-56)2003	mg/l	<0.01	No Relaxation	<0.01
31	Total Arsenic as As	IS3025(P-37)1988	mg/l	<0.01	<0.20	<0.01
32	Cyanide as CN	IS3025(P-27)1986	mg/l	<0.05	No Relaxation	<0.01
33	Lead as Pb	IS3025(P-47)1994	mg/l	<0.01	No Relaxation	<0.01
34	Zinc as Zn	IS3025(P-49)1994	mg/l	<5.0	<15	<0.01
35	Total Chromium as Cr ⁺⁶	IS3025(P-52)2003	mg/l	<0.05	<1.0	<0.01
36	Aluminium as Al	IS3025(P-55)2003	mg/l	0.5	1.0	<0.01
37	Pesticides	As per STP	mg/l	--	No Relaxation	<0.01
38	Dissolved Oxygen	IS3025(P-38)1989	mg/l	--	--	3.9
39	Oil & Grease	IS3025(P-39)2021	mg/l	--	--	<1.0
40	Phosphates as PO ₄	IS3025(P-31)1998	mg/l	--	--	<0.01
41	Percent Sodium	IS3025(P-45)1993	%	--	--	35.5
42	E-Coli	ISO 9308-1	Per/ 100ml	Absent/ 100 ml	Absent/ 100 ml	Absent
43	Total Coliforms	ISO 9308-1	Per/ 100ml	Absent/ 100 ml	Absent/ 100 ml	Absent
44	Fecal Coliforms	IS-1622-1981	MPN/ 100ml	--	--	Absent

K.S. Jay
Verified by



Praveesh W.
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Managing Director

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

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TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

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

Discipline: Chemical

Group: Water

Product 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: 17.02.2025

Sample Registration Date: 18.02.2025

Analysis Starting Date: 18.02.2025

Analysis Completed Date: 24.02.2025

Issue Date: 24.02.2025

Lab Ref: SEPL/ES/SEILEILP/02-25/0001

Sample Collected By: Ganesh

TEST RESULT

S. NO.	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS AS PER IS:10500		RESULTS	
				ACCEPTABLE	PERMISSIBLE	PW-1	PW-2
1	pH	IS3025(P-11)2021	--	6.5- 8.5	No Relaxation	7.5	7.4
2	Color	IS3025(P-04)2021	Hazen	1.0	5.0	1.0	1.0
3	Turbidity	IS3025(P-10)1984	NTU	1.0	5.0	0.3	0.1
4	Electric Conductivity	IS3025(P-14)2013	µs/cm	--	--	1,133	1,151
5	Temperature	--	°C	--	--	21.2	23.1
6	Total Suspended Solids	IS3025(P-17)1984	mg/l	--	--	24	28
7	Total Dissolved Solids	IS3025(P-16)1984	mg/l	500	2000	461	392
8	Total Hardness as CaCO ₃	IS3025(P-23)1986	mg/l	200	600	195	165
9	Total Alkalinity as CaCO ₃	IS3025(P-23)1986	mg/l	200	600	163	175
10	Calcium as Ca	IS3025(P-40)1991	mg/l	75	200	32.1	45.3
11	Magnesium as Mg	IS3025(P-40)1991	mg/l	30	100	23.4	20.1
12	Free Residual Chlorine	IS3025(P-26)1986	mg/l	0.2	No Relaxation	<0.1	<0.1
13	Boron as B	IS3025(P-57)2021	mg/l	0.5	1.0	<0.1	<0.1
14	Calcium Hardness as CaCO ₃	IS3025(P-40)1991	mg/l	--	--	142	164
15	Magnesium Hardness as CaCO ₃	IS3025(P-40)1991	mg/l	--	--	85	96
16	Sodium as Na	IS3025(P-45)1993	mg/l	--	--	137	152
17	Potassium as K	IS3025(P-45)1993	mg/l	--	--	25	28
18	Chloride as Cl	IS3025(P-32)1988	mg/l	250	1000	161	172

K.S. Jay
Verified by



Praveesh W.
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Managing Director

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S. NO.	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS AS PER IS:10500		RESULTS	
				ACCEPTABLE	PERMISSIBLE	PW-1	PW-2
19	Sulphates as SO ₄	IS3025(P-24)1986	mg/l	200	400	70.3	81.6
20	Nitrates as NO ₃	IS3025(P-34)1988	mg/l	45	No Relaxation	27.7	30.5
21	Chemical Oxygen Demand	IS3025(P-58)2006	mg/l	--	--	<5.0	<5.0
22	Biochemical Oxygen Demand (3 days at 27°C)	IS3025(P-44)1993	mg/l	--	--	<3.0	<3.0
23	Iron as Fe	IS3025(P-53)2003	mg/l	<0.3	No Relaxation	0.01	0.02
24	Fluoride as F	IS3025(P-60)2008	mg/l	<1.0	<1.5	0.64	0.71
25	Copper as Cu	IS3025(P-42)1992	mg/l	<0.05	<1.5	<0.01	<0.01
26	Manganese as Mn	IS3025(P-59)2006	mg/l	<0.1	<0.3	<0.1	<0.1
27	Phenolic Compounds as C ₆ H ₅ OH	IS3025(P-43)1992	mg/l	<0.001	<0.002	<0.001	<0.001
28	Cadmium as Cd	IS3025(P-41)1992	mg/l	<0.003	No Relaxation	<0.001	<0.001
29	Mercury as Hg	IS3025(P-48)1994	mg/l	<0.001	No Relaxation	<0.001	<0.001
30	Selenium as Se	IS3025(P-56)2003	mg/l	<0.01	No Relaxation	<0.01	<0.01
31	Total Arsenic as As	IS3025(P-37)1988	mg/l	<0.01	<0.20	<0.01	<0.01
32	Cyanide as CN	IS3025(P-27)1986	mg/l	<0.05	No Relaxation	<0.01	<0.01
33	Lead as Pb	IS3025(P-47)1994	mg/l	<0.01	No Relaxation	<0.01	<0.01
34	Zinc as Zn	IS3025(P-49)1994	mg/l	<5.0	<15	<0.01	<0.01
35	Total Chromium as Cr ⁺⁶	IS3025(P-52)2003	mg/l	<0.05	<1.0	<0.01	<0.01
36	Aluminium as Al	IS3025(P-55)2003	mg/l	0.5	1.0	<0.01	<0.01
37	Pesticides	As per STP	mg/l	--	No Relaxation	<0.01	<0.01
38	Dissolved Oxygen	IS3025(P-38)1989	mg/l	--	--	4.5	4.1
39	Oil & Grease	IS3025(P-39)2021	mg/l	--	--	<1.0	<1.0
40	Phosphates as PO ₄	IS3025(P-31)1998	mg/l	--	--	<0.01	<0.01
41	Percent Sodium	IS3025(P-45)1993	%	--	--	30.1	33.2
42	E-Coli	ISO 9308-1	Per/100ml	Absent/100 ml	Absent/100 ml	Absent	Absent
43	Total Coliforms	ISO 9308-1	Per/100ml	Absent/100 ml	Absent/100 ml	Absent	Absent
44	Fecal Coliforms	IS-1622-1981	MPN/100ml	--	--	Absent	Absent

K.S. Jay
Verified by



Praveesh W.
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TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

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

Discipline: Chemical

Group: Water

Product 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: 17.02.2025

Sample Registration Date: 18.02.2025

Analysis Starting Date: 18.02.2025

Analysis Completed Date: 24.02.2025

Issue Date: 24.02.2025

Lab Ref: SEPL/ES/SEILEILP/02-25/0002

Sample Collected By: Ganesh

TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	STANDARDS AS PER IS:10500		RESULTS	
				ACCEPTABLE	PERMISSIBLE	PW-3	PW-4
1	pH	--	IS3025(P-11)2021	6.5- 8.5	No Relaxation	7.5	7.2
2	Color	Hazen	IS3025(P-04)2021	1.0	5.0	1.0	1.0
3	Turbidity	NTU	IS3025(P-10)1984	1.0	5.0	0.3	0.2
4	Electric Conductivity	µs/cm	IS3025(P-14)2013	--	--	1,373	1,425
5	Temperature	°C	--	--	--	23.1	24.9
6	Total Suspended Solids	mg/l	IS3025(P-17)1984	--	--	44	45
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	500	2000	346	460
8	Total Hardness as CaCO ₃	mg/l	IS3025(P-23)1986	200	600	175	189
9	Total Alkalinity as CaCO ₃	mg/l	IS3025(P-23)1986	200	600	188	193
10	Calcium as Ca	mg/l	IS3025(P-40)1991	75	200	41	52
11	Magnesium as Mg	mg/l	IS3025(P-40)1991	30	100	27	22
12	Free Residual Chlorine	mg/l	IS3025(P-26)1986	0.2	No Relaxation	<0.1	<0.1
13	Boron as B	mg/l	IS3025(P-57)2021	0.5	1.0	0.2	0.3
14	Calcium Hardness as CaCO ₃	mg/l	IS3025(P-40)1991	--	--	159	162
15	Magnesium Hardness as CaCO ₃	mg/l	IS3025(P-40)1991	--	--	124	112
16	Sodium as Na	mg/l	IS3025(P-45)1993	--	--	141	132
17	Potassium as K	mg/l	IS3025(P-45)1993	--	--	38	26
18	Chloride as Cl	mg/l	IS3025(P-32)1988	250	1000	189	171

K.S. Jay
Verified by



Praveesh W.
Authorized by
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S. NO.	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS AS PER IS:10500		RESULTS	
				ACCEPTABLE	PERMISSIBLE	PW-3	PW-4
19	Sulphates as SO ₄	IS3025(P-24)1986	mg/l	200	400	84.7	97.5
20	Nitrates as NO ₃	IS3025(P-34)1988	mg/l	45	No Relaxation	34.6	21.9
21	Chemical Oxygen Demand	IS3025(P-58)2006	mg/l	--	--	<5.0	<5.0
22	Biochemical Oxygen Demand (3 days at 27°C)	IS3025(P-44)1993	mg/l	--	--	<3.0	<3.0
23	Iron as Fe	IS3025(P-53)2003	mg/l	<0.3	No Relaxation	0.42	0.31
24	Fluoride as F	IS3025(P-60)2008	mg/l	<1.0	<1.5	0.76	0.91
25	Copper as Cu	IS3025(P-42)1992	mg/l	<0.05	<1.5	<0.01	<0.01
26	Manganese as Mn	IS3025(P-59)2006	mg/l	<0.1	<0.3	<0.1	<0.1
27	Phenolic Compounds as C ₆ H ₅ OH	IS3025(P-43)1992	mg/l	<0.001	<0.002	<0.001	<0.001
28	Cadmium as Cd	IS3025(P-41)1992	mg/l	<0.003	No Relaxation	<0.001	<0.001
29	Mercury as Hg	IS3025(P-48)1994	mg/l	<0.001	No Relaxation	<0.001	<0.001
30	Selenium as Se	IS3025(P-56)2003	mg/l	<0.01	No Relaxation	<0.01	<0.01
31	Total Arsenic as As	IS3025(P-37)1988	mg/l	<0.01	<0.20	<0.01	<0.01
32	Cyanide as CN	IS3025(P-27)1986	mg/l	<0.05	No Relaxation	<0.01	<0.01
33	Lead as Pb	IS3025(P-47)1994	mg/l	<0.01	No Relaxation	<0.01	<0.01
34	Zinc as Zn	IS3025(P-49)1994	mg/l	<5.0	<15	<0.01	<0.01
35	Total Chromium as Cr ⁺⁶	IS3025(P-52)2003	mg/l	<0.05	<1.0	<0.01	<0.01
36	Aluminium as Al	IS3025(P-55)2003	mg/l	0.5	1.0	<0.01	<0.01
37	Pesticides	As per STP	mg/l	--	No Relaxation	<0.01	<0.01
38	Dissolved Oxygen	IS3025(P-38)1989	mg/l	--	--	5.2	3.9
39	Oil & Grease	IS3025(P-39)2021	mg/l	--	--	<1.0	<1.0
40	Phosphates as PO ₄	IS3025(P-31)1998	mg/l	--	--	<0.01	<0.01
41	Percent Sodium	IS3025(P-45)1993	%	--	--	21.5	29.2
42	E-Coli	ISO 9308-1	Per/100ml	Absent/100 ml	Absent/100 ml	Absent	Absent
43	Total Coliforms	ISO 9308-1	Per/100ml	Absent/100 ml	Absent/100 ml	Absent	Absent
44	Fecal Coliforms	IS-1622-1981	MPN/100ml	--	--	Absent	Absent

K.S. Jay
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TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

(2x660 MW Coal Based Thermal Power Plant),

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

SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Water

Product Water

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

Date of Monitoring: 17.02.2025

Sample Registration Date: 18.02.2025

Analysis Starting Date: 18.02.2025

Analysis Completed Date: 24.02.2025

Issue Date: 24.02.2025

Lab Ref: SEPL/ES/SEILEILP/02-25/0003

Sample Collected By: Ganesh

TEST RESULT

S. NO.	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS AS PER IS:10500		RESULTS
				ACCEPTABLE	PERMISSIBLE	
1	pH	IS3025(P-11)2021	--	6.5- 8.5	No Relaxation	7.4
2	Color	IS3025(P-04)2021	Hazen	1.0	5.0	1.0
3	Turbidity	IS3025(P-10)1984	NTU	1.0	5.0	0.2
4	Electric Conductivity	IS3025(P-14)2013	µs/cm	--	--	1,293
5	Temperature	--	°C	--	--	21.5
6	Total Suspended Solids	IS3025(P-17)1984	mg/l	--	--	48
7	Total Dissolved Solids	IS3025(P-16)1984	mg/l	500	2000	392
8	Total Hardness as CaCO ₃	IS3025(P-23)1986	mg/l	200	600	186
9	Total Alkalinity as CaCO ₃	IS3025(P-23)1986	mg/l	200	600	171
10	Calcium as Ca	IS3025(P-40)1991	mg/l	75	200	62
11	Magnesium as Mg	IS3025(P-40)1991	mg/l	30	100	15
12	Free Residual Chlorine	IS3025(P-26)1986	mg/l	0.2	No Relaxation	<0.1
13	Boron as B	IS3025(P-57)2021	mg/l	0.5	1.0	0.2
14	Calcium Hardness as CaCO ₃	IS3025(P-40)1991	mg/l	--	--	118
15	Magnesium Hardness as CaCO ₃	IS3025(P-40)1991	mg/l	--	--	62
16	Sodium as Na	IS3025(P-45)1993	mg/l	--	--	121
17	Potassium as K	IS3025(P-45)1993	mg/l	--	--	26
18	Chloride as Cl	IS3025(P-32)1988	mg/l	250	1000	183

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S. NO.	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS AS PER IS:10500		RESULTS
				ACCEPTABLE	PERMISSIBLE	PW-5
19	Sulphates as SO ₄	IS3025(P-24)1986	mg/l	200	400	61.6
20	Nitrates as NO ₃	IS3025(P-34)1988	mg/l	45	No Relaxation	33.3
21	Chemical Oxygen Demand	IS3025(P-58)2006	mg/l	--	--	<5.0
22	Biochemical Oxygen Demand (3 days at 27°C)	IS3025(P-44)1993	mg/l	--	--	<3.0
23	Iron as Fe	IS3025(P-53)2003	mg/l	<0.3	No Relaxation	0.21
24	Fluoride as F	IS3025(P-60)2008	mg/l	<1.0	<1.5	0.45
25	Copper as Cu	IS3025(P-42)1992	mg/l	<0.05	<1.5	<0.01
26	Manganese as Mn	IS3025(P-59)2006	mg/l	<0.1	<0.3	<0.1
27	Phenolic Compounds as C ₆ H ₅ OH	IS3025(P-43)1992	mg/l	<0.001	<0.002	<0.001
28	Cadmium as Cd	IS3025(P-41)1992	mg/l	<0.003	No Relaxation	<0.001
29	Mercury as Hg	IS3025(P-48)1994	mg/l	<0.001	No Relaxation	<0.001
30	Selenium as Se	IS3025(P-56)2003	mg/l	<0.01	No Relaxation	<0.01
31	Total Arsenic as As	IS3025(P-37)1988	mg/l	<0.01	<0.20	<0.01
32	Cyanide as CN	IS3025(P-27)1986	mg/l	<0.05	No Relaxation	<0.01
33	Lead as Pb	IS3025(P-47)1994	mg/l	<0.01	No Relaxation	<0.01
34	Zinc as Zn	IS3025(P-49)1994	mg/l	<5.0	<15	<0.01
35	Total Chromium as Cr ⁺⁶	IS3025(P-52)2003	mg/l	<0.05	<1.0	<0.01
36	Aluminium as Al	IS3025(P-55)2003	mg/l	0.5	1.0	<0.01
37	Pesticides	As per STP	mg/l	--	No Relaxation	<0.01
38	Dissolved Oxygen	IS3025(P-38)1989	mg/l	--	--	4.2
39	Oil & Grease	IS3025(P-39)2021	mg/l	--	--	<1.0
40	Phosphates as PO ₄	IS3025(P-31)1998	mg/l	--	--	<0.01
41	Percent Sodium	IS3025(P-45)1993	%	--	--	33.8
42	E-Coli	ISO 9308-1	Per/ 100ml	Absent/ 100 ml	Absent/ 100 ml	Absent
43	Total Coliforms	ISO 9308-1	Per/ 100ml	Absent/ 100 ml	Absent/ 100 ml	Absent
44	Fecal Coliforms	IS-1622-1981	MPN/ 100ml	--	--	Absent

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TEST REPORT

ANNEXURE-IV

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

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

Discipline: Chemical

Group: Wastewater

Sample Location: **Ash Pond Effluent Water**

Date of Monitoring: 13.11.2024

Sample Collected By: Ganesh

Sample Registration Date: 14.11.2024

Analysis Starting Date: 14.11.2024

Analysis Completed Date: 20.11.2024

Issue Date: 20.11.2024

Lab Ref: SEPL/ES/SEILEILP/11-24/0001

TEST RESULT

S.NO	TEST PARAMETERS	UNIT	TEST METHOD	RESULT	STANDARD
1.	pH	---	IS:3025(Part-11)1983	7.45	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	74	100
5.	Chemical Oxygen Demand (COD)	mg/l	IS:3025(Part-58)-2006	82	250
6.	Biochemical Oxygen Demand (BOD) (3 days at 27 °C)	mg/l	IS:3025(Part-44)-1993	79	100
7.	Oil & Grease	mg/l	IS:3025(Part-39)-1991	3.6	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

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TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

(2x660 MW Coal Based Thermal Power Plant),

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

SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Wastewater

Sample Location: **Ash Pond Effluent Water**

Date of Monitoring: 17.02.2025

Sample Collected By: Ganesh

Sample Registration Date: 18.02.2025

Analysis Starting Date: 18.02.2025

Analysis Completed Date: 24.02.2025

Issue Date: 24.02.2025

Lab Ref: SEPL/ES/SEILEILP/02-25/0001

TEST RESULT

S.NO	TEST PARAMETERS	UNIT	TEST METHOD	STANDARD	RESULT
1.	pH	---	IS:3025(Part-11)1983	6.5-8.5	7.28
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	100	73
5.	Chemical Oxygen Demand (COD)	mg/l	IS:3025(Part-58)-2006	250	81
6.	Biochemical Oxygen Demand (BOD) (3 days at 27 °C)	mg/l	IS:3025(Part-44)-1993	100	64
7.	Oil & Grease	mg/l	IS:3025(Part-39)-1991	10	4.8
8.	Total Arsenic as As	mg/l	IS:3025(Part-37)-1988	0.2	<0.01
9.	Mercury as Hg	mg/l	IS:3025(Part-48)-1994	0.01	<0.001
10.	Lead as Pb	mg/l	IS:3025(Part-47)-1994	2.0	<0.01
11.	Cadmium as Cd	mg/l	IS:3025(Part-41)-1992	2.0	<0.001
12.	Hexavalent Chromium as Cr ⁶⁺	mg/l	IS:3025(Part-52)-2003	1.0	<0.001

IS-Indian Standard

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TEST REPORT

ANNEXURE-V

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

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

Discipline: Chemical

Group: Water

Product: ETP OUTLET (Treated Effluent)

Date of Monitoring: 14.11.2024

Sample Collected By: Ganesh

Sample Registration Date: 15.11.2024

Analysis Starting Date: 15.11.2024

Analysis Completed Date: 21.11.2024

Issue Date: 21.11.2024

Lab Ref: SEPL/ES/SEILEILP/11-24/0002

TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARD	RESULTS
1.	pH	IS:3025(Part-11)1983	--	5.5-9.0	7.7
2.	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	2100	442
3.	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	200	41
4.	Chemical Oxygen Demand	IS:3025(Part-58)-1986	mg/l	250	49
5.	Biochemical Oxygen Demand (5 days at 20°C)	IS:3025(Part-44)-1993	mg/l	100	28
6.	Oil & Grease	IS:3025(Part-39)-1991	mg/l	10	<1.0

Note: IS- Indian Standard

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TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

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

Discipline: Chemical

Group: Water

Product: ETP OUTLET (Treated Effluent)

Date of Monitoring: 17.02.2025

Sample Collected By: Ganesh

Sample Registration Date: 18.02.2025

Analysis Starting Date: 18.02.2025

Analysis Completed Date: 24.02.2025

Issue Date: 24.02.2025

Lab Ref: SEPL/ES/SEILEILP/02-25/0002

TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARD	RESULTS
1.	pH	IS:3025(Part-11)1983	--	5.5-9.0	7.8
2.	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	2100	446
3.	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	200	39
4.	Chemical Oxygen Demand	IS:3025(Part-58)-1986	mg/l	250	45
5.	Biochemical Oxygen Demand (5 days at 20°C)	IS:3025(Part-44)-1993	mg/l	100	33
6.	Oil & Grease	IS:3025(Part-39)-1991	mg/l	10	<1.0

Note: IS- Indian Standard

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TEST REPORT

ANNEXURE-VI

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

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

Discipline: Chemical

Group: Water

Product: Marine Outfall Water

Date of Sampling: 14.11.2024

Sample Collected By: Ganesh

Sample Registration Date: 15.11.2024

Analysis Starting Date: 15.11.2024

Analysis Completed Date: 21.11.2024

Issue Date: 21.11.2024

Lab Ref: SEPL/ES/SEILEILP/11-24/0001

TEST RESULT

S. NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1	pH	IS:3025(Part-11)1983	--	6.5-8.5	7.8
2	Temperature Intake	--	°C	Shall not exceed 5°C above the Receiving temperature	24.1
3	Temperature Out Fall	--	°C		27.6
4	Electric Conductivity	IS: 3025:1964	µs/cm	--	27,625
5	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	--	18536
6	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	100	89
7	Chemical Oxygen Demand	IS:3025(Part-58)-2006	mg/l	250	93
8	Biochemical Oxygen Demand (3 days at 27°C)	IS:3025(Part-44)-1993	mg/l	100	65
9	Oil & Grease	IS:3025(Part-39)-1991	mg/l	10	<1.0
10	Total Hardness as CaCO ₃	IS:3025(Part-21)-2012	mg/l	--	4,392
11	Total Alkalinity as CaCO ₃	IS:3025(Part-23)-2012	mg/l	--	785
12	P- Alkalinity as CaCO ₃	IS:3025(Part-13)-1964	mg/l	--	Nil
13	Turbidity	IS:3025(Part-10)-2012	NTU	--	29.2
14	Calcium as Ca	IS:3025(Part-40)-2012	mg/l	--	1,536
15	Magnesium as Mg	IS:3025(Part-46)-2012	mg/l	--	271
16	Sodium as Na	IS:3025(Part-45)1993	mg/l	--	678

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S. No	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
17	Potassium as K	IS:3025(Part-45)-1993	mg/l	--	254
18	Chloride as Cl	IS:3025(Part-32)-2012	mg/l	--	7,435
19	Sulphates as SO ₄	IS:3025(Part-24)-2012	mg/l	--	752
20	Nitrates as NO ₃	IS:3025(Part-34)-2012	mg/l	--	47.8
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	--	461
23	Iron as Fe	IS:3025(Part-53)-2012	mg/l	--	1.3
24	Flouride as F	IS:3025(Part-60)-2012	mg/l	--	1.9
25	Copper as Cu	IS:3025(Part-42)-2012	mg/l	--	0.61
26	Manganese as Mn	IS:3025(Part-59)-2012	mg/l	--	0.79
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	2.0	<0.005
29	Mercury as Hg	IS:3025(Part-48)-2012	mg/l	0.01	<0.001
30	Selenium as Se	IS:3025(Part-56)-2012	mg/l	--	<0.005
31	Arsenic as As	IS:3025(Part-37)-2012	mg/l	0.2	<0.01
32	Cyanide as CN	IS:3025(Part-27)-2012	mg/l	--	<0.01
33	Lead as Pb	IS:3025(Part-47)-2012	mg/l	2.0	<0.01
34	Zinc as Zn	IS:3025(Part-49)-2012	mg/l	--	0.43
35	Hexavalent Chromium as Cr ⁺⁶	IS:3025(Part-38)-1964	mg/l	1.0	<0.001
36	Boron as B	IS:3025(Part-57)-2012	mg/l	--	0.006
37	Silica as SiO ₂	IS:3025(Part-35)-2019	mg/l	--	31.1

Note: IS- Indian Standard

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

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

TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-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: 14.11.2024

Sample Collected By: Ganesh

Sample Registration Date: 15.11.2024

Analysis Starting Date: 15.11.2024

Analysis Completed Date: 21.11.2024

Issue Date: 21.11.2024

Lab Ref: SEPL/ES/SEILEILP/11-24/0002

TEST RESULT

TEST SPECIES	SOURCE OF ORGANISM	LENGTH & WEIGHT (For Fish)	REMARKS
Zebra Fish	Through vendors	1.Length 4.6 cm 2.Weight 3.8 gm	1.Fish were not fed <u>Yes</u> 2. Temperature range in aquarium 25°C

REFERENCE TEST DATA

START DATE:15.11.2024

END DATE: 21.11.2024

COMMENTS:

The test species was 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



Praveesh W.
Authorized by
Managing Director

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

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

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





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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: 17.02.2025

Sample Collected By: Ganesh

Sample Registration Date: 18.02.2025

Analysis Starting Date: 18.02.2025

Analysis Completed Date: 24.02.2025

Issue Date: 24.02.2025

Lab Ref: SEPL/ES/SEILEILP/02-25/0001

TEST RESULT

S. NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1	pH	IS:3025(Part-11)1983	--	6.5-8.5	7.4
2	Temperature Intake	--	°C	Shall not exceed 5°C above the Receiving temperature	21.3
3	Temperature Out Fall	--	°C		23.9
4	Electric Conductivity	IS: 3025:1964	µs/cm	--	27,636
5	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	--	18549
6	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	100	84
7	Chemical Oxygen Demand	IS:3025(Part-58)-2006	mg/l	250	91
8	Biochemical Oxygen Demand (3 days at 27°C)	IS:3025(Part-44)-1993	mg/l	100	69
9	Oil & Grease	IS:3025(Part-39)-1991	mg/l	10	<1.0
10	Total Hardness as CaCO ₃	IS:3025(Part-21)-2012	mg/l	--	4,385
11	Total Alkalinity as CaCO ₃	IS:3025(Part-23)-2012	mg/l	--	789
12	P- Alkalinity as CaCO ₃	IS:3025(Part-13)-1964	mg/l	--	Nil
13	Turbidity	IS:3025(Part-10)-2012	NTU	--	32.6
14	Calcium as Ca	IS:3025(Part-40)-2012	mg/l	--	1,543
15	Magnesium as Mg	IS:3025(Part-46)-2012	mg/l	--	268
16	Sodium as Na	IS:3025(Part-45)1993	mg/l	--	672

K.S. Jay
Verified by



Praveesh W.
Authorized by
Managing Director

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

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





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

S. No	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
17	Potassium as K	IS:3025(Part-45)-1993	mg/l	--	251
18	Chloride as Cl	IS:3025(Part-32)-2012	mg/l	--	7,446
19	Sulphates as SO ₄	IS:3025(Part-24)-2012	mg/l	--	751
20	Nitrates as NO ₃	IS:3025(Part-34)-2012	mg/l	--	44.2
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	--	458
23	Iron as Fe	IS:3025(Part-53)-2012	mg/l	--	1.6
24	Fluoride as F	IS:3025(Part-60)-2012	mg/l	--	1.2
25	Copper as Cu	IS:3025(Part-42)-2012	mg/l	--	0.72
26	Manganese as Mn	IS:3025(Part-59)-2012	mg/l	--	0.75
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	2.0	<0.005
29	Mercury as Hg	IS:3025(Part-48)-2012	mg/l	0.01	<0.001
30	Selenium as Se	IS:3025(Part-56)-2012	mg/l	--	<0.005
31	Arsenic as As	IS:3025(Part-37)-2012	mg/l	0.2	<0.01
32	Cyanide as CN	IS:3025(Part-27)-2012	mg/l	--	<0.01
33	Lead as Pb	IS:3025(Part-47)-2012	mg/l	2.0	<0.01
34	Zinc as Zn	IS:3025(Part-49)-2012	mg/l	--	0.41
35	Hexavalent Chromium as Cr ⁺⁶	IS:3025(Part-38)-1964	mg/l	1.0	<0.001
36	Boron as B	IS:3025(Part-57)-2012	mg/l	--	0.006
37	Silica as SiO ₂	IS:3025(Part-35)-2019	mg/l	--	29.5

Note: IS- Indian Standard

K.S.Lg
Verified by



Praveesh W.
Authorized by
Managing Director

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

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

TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-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: 17.02.2025

Sample Collected By: Ganesh

Sample Registration Date: 18.02.2025

Analysis Starting Date: 18.02.2025

Analysis Completed Date: 24.02.2025

Issue Date: 24.02.2025

Lab Ref: SEPL/ES/SEILEILP/02-25/0002

TEST RESULT

TEST SPECIES	SOURCE OF ORGANISM	LENGTH & WEIGHT (For Fish)	REMARKS
Zebra Fish	Through vendors	1.Length 4.4 cm 2.Weight 3.9 gm	1. Fish were not fed <u>Yes</u> 2. Temperature range in aquarium 25°C

REFERENCE TEST DATA

START DATE: 18.02.2025

END DATE: 24.02.2025

COMMENTS:

The test species was undergone toxicity for about 96 Hrs.
RESULT: 98% survival of fish was noticed

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

K.S.Laj
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TEST REPORT

ANNEXURE-VII

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

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

Discipline: Chemical

Group: Water

Product: STP OUTLET

Date of Monitoring: 14.11.2024

Sample Collected By: Ganesh

Sample Registration Date: 15.11.2024

Analysis Starting Date: 15.11.2024

Analysis Completed Date: 21.11.2024

Issue Date: 21.11.2024

Lab Ref: SEPL/ES/SEILEILP/11-24/0002

TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARD	RESULTS
1.	pH	IS:3025(Part-11)1983	--	5.5-9.0	7.6
2.	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	<2100	191
3.	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	<200	57
4.	Chemical Oxygen Demand	IS:3025(Part-58)-1986	mg/l	<250	61
5.	Biochemical Oxygen Demand (5 days at 20°C)	IS:3025(Part-44)-1993	mg/l	<100	32
6.	Oil & Grease	IS:3025(Part-39)-1991	mg/l	<10	<1.0

Note: IS-Indian Standard

K.S.Lg
Verified by



Praveesh W.
Authorized by
Managing Director

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TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

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

Discipline: Chemical

Group: Water

Product: STP OUTLET

Date of Monitoring: 17.02.2025

Sample Collected By: Ganesh

Sample Registration Date: 18.02.2025

Analysis Starting Date: 18.02.2025

Analysis Completed Date: 24.02.2025

Issue Date: 24.02.2025

Lab Ref: SEPL/ES/SEILEILP/02-25/0002

TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARD	RESULTS
1.	pH	IS:3025(Part-11)1983	--	5.5-9.0	7.2
2.	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	<2100	174
3.	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	<200	52
4.	Chemical Oxygen Demand	IS:3025(Part-58)-1986	mg/l	<250	66
5.	Biochemical Oxygen Demand (5 days at 20°C)	IS:3025(Part-44)-1993	mg/l	<100	37
6.	Oil & Grease	IS:3025(Part-39)-1991	mg/l	<10	<1.0

Note: IS-Indian Standard

K.S. Jay
Verified by



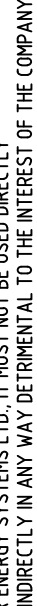
Praveesh W.
Authorized by
Managing Director

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

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





1. ALL DIMENSIONS AND LEVELS INDICATED ARE IN METERS, UNLESS OTHERWISE SPECIFIED.
2. ALL ELEVATIONS ARE REFERRED TO THE TOP OF FFL OF STG BUILDING EL(+0.0) WHICH CORRESPONDS TO RL(+4.0) ABOVE MSL.
3. PLANT COORDINATES (0.000,0.00) CORRESPONDS TO 1583200, 406800 UTM.
4. ALL "FIXED LEVEL" (RL) SHOWN IN THIS DRAWING SHALL BE REFERRED w.r.t MSL(+/-0.00M).
5. THE HIGHEST FLOOD LEVEL (HFL) FOR THE POWER PLANT IS RL(+2.0) ABOVE MSL.
6. LAYOUT OF VARIOUS STRUCTURES & FACILITIES IN OWNER'S SCOPE AS SHOWN IN THIS DRAWING IS INDICATIVE ONLY. THE EXACT LOCATION AND LAYOUT SHALL BE FINALIZED DURING DETAILED ENGINEERING STAGE.

RL	REFERENCE LEVEL		BUCKINGHAM CANAL
FGL	FINISH GROUND LEVEL		PLANT BOUNDARY
FFL	FINISH FLOOR LEVEL		PROPERTY FENCE
	GREEN BELT AREA		ROADS
	ORNAMENTAL POND		

A. <u>BGR DWGS.:</u>	
DWG. NO.	TITLE
1. GID-145-CV-UZA-DWG-3006 (Rev.-D)	LAYOUT OF PLANT ROADS
2. GID-145-CV-UGH-DWG-3008 (Rev.-E)	LAYOUT OF STORM WATER DRAINS
3. GID-145-ME-UMY-XM-1257 (Rev.-A)	PIPING LAYOUT FOR OVER ALL PIPE RACK
B. <u>DEC/CUSTOMER DWGS.:</u>	
DWG. NO.	TITLE
1. TB600-J01-12	GA DRAWING OF MAIN PLANT BUILDING
2. TPCIL-01-PP-01-001	GENERAL LAYOUT PLAN

1.	MAIN PLANT, SWITCHYARD, COAL STOCK PILE	FGL.EL.(-)0.5M
2.	CT, WATER SYSTEM AREA	FGL.EL.(-)0.6M
3.	ASH POND AREA	FGL.EL.(-)1.0M

FOR FACTORY INSPECTOR APPROVAL

REVISIONS	APPROVED
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[illegible]

TITLE	CARD	DRAWING NO.	REV.
BASE PLAN (INTERIOR)	0005	STD 145 ME LING ME 1001	1

	15	16
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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 2024

Sampling Location-1: Main Gate

Sample Registration Date: 15.11.2024

Issue Date: 21.11.2024

Lab Ref: SEPL/ES/SEILEILP/11-24/0001

TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	14.11.2024	00:00	36.8
2		01:00	35.6
3		02:00	40.2
4		03:00	31.4
5		04:00	34.9
6		05:00	31.5
7		06:00	54.2
8		07:00	47.4
9		08:00	56.5
10		09:00	53.2
11		10:00	50.1
12		11:00	55.2
13		12:00	57.4
14		13:00	52.3
15		14:00	49.6
16		15:00	57.5
17		16:00	53.7
18		17:00	52.6
19		18:00	55.1
20		19:00	58.3
21		20:00	49.6
22		21:00	54.8
23		22:00	50.2
24		23:00	39.7

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

Instrument Details: Sound Level Meter

Make/Model : Metravi/SL-3010

SerialNo : 11180097640

Calibration Due : 28.02.2025

K.S.Laj
Verified by



P. Suresh K.
Authorized by
Managing Director

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

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

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TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

(2x660 MW Coal Based Thermal Power Plant),

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

SPSR Nellore (Dist.) -524344.

Group: Atmospheric Pollution

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

Sampling Location-2: BTG Area

Sample Registration Date: 15.11.2024

Issue Date: 21.11.2024

Lab Ref: SEPL/ES/SEILEILP/11-24/0002

TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	14.11.2024	00:00	40.5
2		01:00	34.2
3		02:00	33.8
4		03:00	36.3
5		04:00	42.9
6		05:00	41.0
7		06:00	47.2
8		07:00	44.5
9		08:00	48.6
10		09:00	53.2
11		10:00	50.7
12		11:00	46.9
13		12:00	53.1
14		13:00	46.5
15		14:00	47.6
16		15:00	44.0
17		16:00	52.8
18		17:00	43.9
19		18:00	51.6
20		19:00	48.4
21		20:00	46.9
22		21:00	45.2
23		22:00	44.7
24		23:00	40.4

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

Instrument Details: Sound Level Meter

Make/Model : Standard/SC-05

Serial No : 200525272

Calibration Due : 28.02.2025

K.S. Jay
Verified by



Praveesh W.
Authorized by
Managing Director

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

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TEST REPORT

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 2024

Sampling Location-3: Coal Handling Plant

Sample Registration Date: 15.11.2024

Issue Date: 21.11.2024

Lab Ref: SEPL/ES/SEILEILP/11-24/0003

TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	14.11.2024	00:00	36.4
2		01:00	32.8
3		02:00	31.4
4		03:00	37.9
5		04:00	40.8
6		05:00	34.1
7		06:00	57.6
8		07:00	46.9
9		08:00	43.7
10		09:00	45.1
11		10:00	52.6
12		11:00	49.2
13		12:00	43.7
14		13:00	46.2
15		14:00	53.9
16		15:00	41.6
17		16:00	47.5
18		17:00	53.4
19		18:00	56.8
20		19:00	55.3
21		20:00	47.1
22		21:00	44.9
23		22:00	42.7
24		23:00	42.5

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

Instrument Details: Sound Level Meter

Make/Model : Lutron /SL-34001

Serial No : Q6352440

Calibration Due : 28.02.2025

K.S. Jay
Verified by



Praveesh W.
Authorized by
Managing Director

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

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





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

TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-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 2024

Sampling Location-4: Pattapupalem Village

Sample Registration Date: 15.11.2024

Issue Date: 21.11.2024

Lab Ref: SEPL/ES/SEILEILP/11-24/0004

TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	14.11.2024	00:00	26.4
2		01:00	28.2
3		02:00	31.9
4		03:00	32.5
5		04:00	26.3
6		05:00	30.2
7		06:00	40.3
8		07:00	43.6
9		08:00	42.8
10		09:00	43.9
11		10:00	44.7
12		11:00	46.2
13		12:00	45.9
14		13:00	39.4
15		14:00	42.6
16		15:00	41.2
17		16:00	38.8
18		17:00	42.4
19		18:00	43.6
20		19:00	42.9
21		20:00	41.6
22		21:00	39.7
23		22:00	31.5
24		23:00	27.0

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



Praveesh W.
Authorized by
Managing Director

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

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





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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 2024

Sampling Location-5: Painampuram Village

Sample Registration Date: 15.11.2024

Issue Date: 21.11.2024

Lab Ref: SEPL/ES/SEILEILP/11-24/0005

TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	14.11.2024	00:00	38.1
2		01:00	33.9
3		02:00	35.3
4		03:00	36.6
5		04:00	32.2
6		05:00	38.9
7		06:00	40.6
8		07:00	45.1
9		08:00	41.6
10		09:00	44.8
11		10:00	49.2
12		11:00	47.5
13		12:00	43.2
14		13:00	46.1
15		14:00	40.7
16		15:00	43.5
17		16:00	41.3
18		17:00	46.2
19		18:00	49.8
20		19:00	48.0
21		20:00	40.1
22		21:00	43.7
23		22:00	37.4
24		23:00	36.0

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. Jay
Verified by



Praveesh W.
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-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 2024

Sampling Location-6: Nelaturu Village

Sample Registration Date: 15.11.2024

Issue Date: 21.11.2024

Lab Ref: SEPL/ES/SEILEILP/11-24/0006

TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	14.11.2024	00:00	29.7
2		01:00	35.2
3		02:00	34.4
4		03:00	22.8
5		04:00	33.1
6		05:00	27.4
7		06:00	35.7
8		07:00	30.2
9		08:00	43.6
10		09:00	45.8
11		10:00	36.2
12		11:00	41.9
13		12:00	45.6
14		13:00	50.5
15		14:00	48.2
16		15:00	45.0
17		16:00	47.6
18		17:00	43.8
19		18:00	40.4
20		19:00	39.5
21		20:00	42.2
22		21:00	45.4
23		22:00	41.3
24		23:00	34.2

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 : 11180097643

Calibration Due : 28.02.2025

K.S.Laj
Verified by



Praveesh W.
Authorized by
Managing Director

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

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

TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

(2x660 MW Coal Based Thermal Power Plant),

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

SPSR Nellore (Dist.) -524344.

Group: Atmospheric Pollution

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

Date of Sampling: 14-11-2024

Sample Registration Date: 15.11.2024

Issue Date: 21.11.2024

Lab Ref: SEPL/ES/SEILEILP/11-24/0007

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	31.4	33.8	31.4	26.3	32.2	22.8
Maximum	58.3	53.2	57.6	46.2	49.8	27.4
Average	48.2	45.2	45.1	38.1	41.6	44.2

K.S.Laj
Verified by



Praveesh W.
Authorized by
Managing Director

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

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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 2025

Sampling Location-1: Main Gate

Sample Registration Date: 18.02.2025

Issue Date: 24.02.2025

Lab Ref: SEPL/ES/SEILEILP/02-25/0001

TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	17.02.2025	00:00	33.1
2		01:00	28.6
3		02:00	33.8
4		03:00	35.2
5		04:00	37.9
6		05:00	35.5
7		06:00	56.2
8		07:00	49.3
9		08:00	54.9
10		09:00	51.7
11		10:00	46.2
12		11:00	51.5
13		12:00	59.6
14		13:00	55.4
15		14:00	45.6
16		15:00	58.3
17		16:00	51.9
18		17:00	56.5
19		18:00	51.1
20		19:00	54.4
21		20:00	45.7
22		21:00	51.9
23		22:00	48.8
24		23:00	41.6

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

Instrument Details: Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097640

Calibration Due : 28.02.2026

K.S.Laj
Verified by



P. Suresh W.
Authorized by
Managing Director

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

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

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





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TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-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 2025

Sampling Location-2: BTG Area

Sample Registration Date: 18.02.2025

Issue Date: 24.02.2025

Lab Ref: SEPL/ES/SEILEILP/02-25/0002

TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	17.02.2025	00:00	44.2
2		01:00	37.8
3		02:00	36.9
4		03:00	35.7
5		04:00	46.5
6		05:00	43.8
7		06:00	49.6
8		07:00	52.7
9		08:00	45.5
10		09:00	51.8
11		10:00	46.5
12		11:00	38.2
13		12:00	57.7
14		13:00	49.9
15		14:00	44.8
16		15:00	41.4
17		16:00	57.9
18		17:00	41.0
19		18:00	55.8
20		19:00	44.3
21		20:00	44.3
22		21:00	49.8
23		22:00	46.3
24		23:00	39.2

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



Praveesh W.
Authorized by
Managing Director

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

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

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

TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-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 2025

Sampling Location-3: Coal Handling Plant

Sample Registration Date: 18.02.2025

Issue Date: 24.02.2025

Lab Ref: SEPL/ES/SEILEILP/02-25/0003

TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	17.02.2025	00:00	32.9
2		01:00	35.6
3		02:00	42.8
4		03:00	35.2
5		04:00	44.4
6		05:00	37.9
7		06:00	54.2
8		07:00	49.1
9		08:00	41.3
10		09:00	42.1
11		10:00	56.5
12		11:00	43.1
13		12:00	47.7
14		13:00	52.8
15		14:00	55.6
16		15:00	48.4
17		16:00	52.9
18		17:00	58.8
19		18:00	52.4
20		19:00	59.2
21		20:00	44.7
22		21:00	41.6
23		22:00	44.2
24		23:00	48.6

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

Instrument Details: Sound Level Meter

Make/Model : Lutron /SL-34001

Serial No. : Q6352440

Calibration Due : 28.02.2025

K.S.Laj
Verified by



Praveesh W.
Authorized by
Managing Director

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

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

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TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-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 2025

Sampling Location-4: Pattapupalem Village

Sample Registration Date: 18.02.2025

Issue Date: 24.02.2025

Lab Ref: SEPL/ES/SEILEILP/02-25/0004

TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	17.02.2025	00:00	29.5
2		01:00	32.6
3		02:00	35.7
4		03:00	38.8
5		04:00	24.7
6		05:00	35.9
7		06:00	45.1
8		07:00	49.8
9		08:00	38.6
10		09:00	41.1
11		10:00	42.8
12		11:00	44.9
13		12:00	41.0
14		13:00	35.6
15		14:00	41.3
16		15:00	39.4
17		16:00	34.5
18		17:00	49.7
19		18:00	41.1
20		19:00	46.8
21		20:00	45.2
22		21:00	36.7
23		22:00	35.8
24		23:00	25.8

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 : 11180097641

Calibration Due : 28.02.2025

K.S.Laj
Verified by



Praveesh W.
Authorized by
Managing Director

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

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

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





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

TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-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 2025

Sampling Location-5: Painampuram Village

Sample Registration Date: 18.02.2025

Issue Date: 24.02.2025

Lab Ref: SEPL/ES/SEILEILP/02-25/0005

TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	17.02.2025	00:00	33.6
2		01:00	31.7
3		02:00	39.2
4		03:00	34.4
5		04:00	37.1
6		05:00	40.6
7		06:00	43.7
8		07:00	44.5
9		08:00	40.9
10		09:00	47.2
11		10:00	45.8
12		11:00	44.6
13		12:00	41.8
14		13:00	45.6
15		14:00	38.4
16		15:00	41.2
17		16:00	45.7
18		17:00	48.3
19		18:00	45.5
20		19:00	42.2
21		20:00	37.2
22		21:00	41.9
23		22:00	34.0
24		23:00	38.1

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



Praveesh W.
Authorized by
Managing Director

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

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

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





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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 2025

Sampling Location-6: Nelaturu Village

Sample Registration Date: 18.02.2025

Issue Date: 24.02.2025

Lab Ref: SEPL/ES/SEILEILP/02-25/0006

TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	17.02.2025	00:00	31.7
2		01:00	42.4
3		02:00	37.1
4		03:00	26.9
5		04:00	37.8
6		05:00	39.6
7		06:00	39.0
8		07:00	33.8
9		08:00	47.6
10		09:00	41.9
11		10:00	34.2
12		11:00	48.7
13		12:00	48.6
14		13:00	44.3
15		14:00	44.9
16		15:00	42.6
17		16:00	45.9
18		17:00	41.3
19		18:00	38.1
20		19:00	36.6
21		20:00	40.5
22		21:00	41.6
23		22:00	47.9
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



Praveesh W.
Authorized by
Managing Director

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

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TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-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 2025

Date of Sampling: 17-02-2025

Sample Registration Date: 18.02.2025

Issue Date: 24.02.2025

Lab Ref: SEPL/ES/SEILEILP/02-25/0007

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	28.6	35.7	32.9	24.7	31.7	26.9
Maximum	59.6	57.9	59.2	49.8	48.3	54.3
Average	47.7	45.9	46.7	38.8	41.0	41.2

K.S.Laj
Verified by



Praveesh W.
Authorized by
Managing Director

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

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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 2024 Location-1: Fire Station (Plant)	Sample Registration Date: 30.10.2024 Issue Date: 06.11.2024 Lab Ref: SEPL/ES/SEILEILP/10-24/0001 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
01.10.2024	45.0	24.1	15.7	9.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
02.10.2024	32.8	16.4	15.2	9.0	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
07.10.2024	37.2	24.2	15.4	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.10.2024	41.5	23.7	13.6	9.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.10.2024	42.3	25.3	11.4	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.10.2024	39.7	21.9	14.7	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.10.2024	42.2	26.4	12.6	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.10.2024	44.6	20.2	16.1	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.10.2024	45.1	23.5	13.3	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.10.2024	43.4	21.4	14.6	9.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	32.8	16.4	11.4	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	45.1	26.4	16.1	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	37.5	23.2	13.9	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	45.3	25.7	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 : 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. Jay
Verified by



B. Ganesh K.
Authorized by
Managing Director

Form No : F-7.8-02

Issue No & Date 01& 20.06.2019

Amend. No & Dt.: 00 & 00

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-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 2024

Location-2: Pattapupalem village

Sample Registration Date: 30.10.2024

Issue Date: 06.11.2024

Lab Ref: SEPL/ES/SEILEILP/10-24/0002

Sample collected person details: S. Ganesh

TESTRESULT

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
01.10.2024	36.8	22.7	15.2	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
02.10.2024	41.7	21.4	19.8	14.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
07.10.2024	43.4	21.3	14.2	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.10.2024	39.6	27.4	16.7	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.10.2024	42.9	26.8	13.8	7.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.10.2024	44.7	21.5	15.4	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.10.2024	37.8	20.3	12.9	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.10.2024	41.4	22.9	14.5	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.10.2024	42.3	24.5	11.6	9.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.10.2024	34.5	23.7	16.1	7.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	34.5	20.3	11.6	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	44.7	27.4	16.7	9.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	40.8	23.6	14.4	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	43.5	26.3	14.9	9.4	<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 sample
Model/SI NO : AAQ510 / 220831
Make : SSE (Shree Scientific Equipment)
Calibration Due : 28.02.2025

Instruments Details:

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

K.S. Jay
Verified by



B. Ganesh K.
Authorized by
Managing Director

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

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

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TEST REPORT

ISSUED TO:

M/S. SEIL ENERGY INDIA LIMITED PROJECT-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 2024

Location-3: Painampuram Village

Sample Registration Date: 30.10.2024

Issue Date: 06.11.2024

Lab Ref: SEPL/ES/SEILEILP/10-24/0003

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
01.10.2024	40.8	25.4	12.6	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
02.10.2024	45.7	22.6	10.9	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
07.10.2024	45.6	23.4	12.5	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.10.2024	43.9	21.9	13.2	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.10.2024	40.7	25.6	11.9	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.10.2024	44.3	24.4	14.8	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.10.2024	42.1	22.2	10.7	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.10.2024	46.2	26.7	11.5	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.10.2024	38.6	23.8	12.7	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.10.2024	41.4	28.8	14.1	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	38.6	21.9	10.7	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	46.2	28.8	14.8	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	42.9	24.6	12.7	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	44.7	26.2	13.4	9.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

Instruments Details:

Instrument : Fine Particulate sampler
Model/SI NO : AAQ510 / 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. Jay
Verified by



Bharath K.
Authorized by
Managing Director

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

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(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 2024

Location-4: Nelaturu Village

Sample Registration Date: 30.10.2024

Issue Date: 06.11.2024

Lab Ref: SEPL/ES/SEILEILP/10-24/0004

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
01.10.2024	37.7	21.6	14.7	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
02.10.2024	41.2	24.9	11.2	7.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
07.10.2024	37.2	22.3	13.5	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.10.2024	43.4	26.1	15.9	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.10.2024	36.1	24.6	16.1	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.10.2024	41.1	25.7	11.7	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.10.2024	39.8	24.3	14.6	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.10.2024	42.8	22.5	12.8	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.10.2024	47.2	27.1	16.3	9.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.10.2024	45.4	25.3	10.4	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	36.1	22.3	10.4	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	47.2	27.1	16.3	9.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	41.6	24.7	13.9	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	45.5	24.8	14.2	9.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

Instruments Details:

Instrument : Fine Particulate sampler
Model/SI NO : AAM-510 /1593 DTF2015
Make : Enviro tech
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



Bharath K.
Authorized by
Managing Director

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

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SUMMARY OF AMBIENT AIR QUALITY- OCTOBER 2024

Pollutants	Description	Unit	Fire Station (Plant)-1	Pattapupalem Village-2	Painampuram Village-3	Nelaturu Village-4
PM ₁₀	Minimum	µg/m ³	37.2	34.5	38.6	36.1
	Maximum		45.1	44.7	46.2	47.2
	Average		37.5	40.8	42.9	41.6
	98 Percentile		45.3	43.5	44.7	45.5
PM _{2.5}	Minimum		20.2	20.3	21.9	22.3
	Maximum		26.4	27.4	28.8	27.1
	Average		23.2	23.6	24.6	24.7
	98 Percentile		25.7	26.3	26.2	24.8
SO ₂	Minimum		11.4	11.6	10.7	10.4
	Maximum		16.1	16.7	14.8	16.3
	Average		13.9	14.4	12.7	13.9
	98 Percentile		15.2	14.9	13.4	14.2
NO _x	Minimum		7.5	7.4	7.2	7.9
	Maximum		9.9	9.7	9.3	9.6
	Average		8.7	8.5	8.3	8.7
	98 Percentile		9.7	9.4	9.1	9.1

K.S.Laj
Verified by



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Managing Director

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TEST REPORT

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M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

(2x660 MW Coal Based Thermal Power Plant),

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

SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – NOVEMBER 2024

Location-1: Fire Station (Plant)

Sample Registration Date: 27.11.2024

Issue Date: 03.12.2024

Lab Ref: SEPL/ES/SEILEILP/11-24/0001

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
04.11.2024	32.7	28.4	11.9	7.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
05.11.2024	48.6	25.9	15.2	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.11.2024	45.2	28.7	14.6	8.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.11.2024	42.5	26.1	13.7	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.11.2024	39.8	21.8	11.8	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.11.2024	41.9	24.2	15.5	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.11.2024	46.3	29.5	14.1	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.11.2024	44.2	27.4	10.5	9.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	32.7	21.8	10.5	7.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	48.6	29.5	15.5	9.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	42.7	26.5	13.4	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	48.3	29.4	15.5	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 sample

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. Jay
Verified by



Bharath K.
Authorized by
Managing Director

Form No : F-7.8-02

Issue No & Date 01& 20.06.2019

Amend. No & Dt.: 00 & 00

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

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

SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – NOVEMBER 2024

Location-2: Pattapupalem village

Sample Registration Date: 27.11.2024

Issue Date: 03.12.2024

Lab Ref: SEPL/ES/SEILEILP/11-24/0002

Sample collected person details: S. Ganesh

TESTRESULT

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
04.11.2024	47.6	27.1	15.9	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
05.11.2024	40.2	25.7	13.5	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.11.2024	43.8	22.9	11.1	9.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.11.2024	41.7	21.8	12.3	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.11.2024	45.3	26.2	10.8	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.11.2024	38.2	25.6	14.2	9.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.11.2024	39.6	27.5	16.1	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.11.2024	44.1	20.9	15.6	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	38.2	20.9	10.8	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	47.6	27.5	16.1	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	42.6	24.7	13.7	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	47.3	27.4	16.1	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 / 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



B. Ganesh K.
Authorized by
Managing Director

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

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(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 2024

Location-3: Painampuram Village

Sample Registration Date: 27.11.2024

Issue Date: 03.12.2024

Lab Ref: SEPL/ES/SEILEILP/11-24/0003

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
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12.11.2024	42.5	21.4	7.9	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.11.2024	49.1	24.7	8.5	7.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
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25.11.2024	41.9	25.2	8.2	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.11.2024	44.7	19.5	7.6	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	39.2	19.5	7.4	6.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	49.1	26.9	9.1	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	44.4	24.1	8.2	7.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	49.0	26.9	9.1	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 / 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. Jay
Verified by



Bharath K.
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

(2x660 MW Coal Based Thermal Power Plant),

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

SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – NOVEMBER 2024

Location-4: Nelaturu Village

Sample Registration Date: 27.11.2024

Issue Date: 03.12.2024

Lab Ref: SEPL/ES/SEILEILP/11-24/0004

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
04.11.2024	41.3	47.9	8.2	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
05.11.2024	55.4	45.4	7.8	6.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.11.2024	37.8	26.5	7.1	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.11.2024	39.9	25.4	6.5	7.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.11.2024	35.7	29.9	8.9	6.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.11.2024	46.2	31.6	8.5	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.11.2024	27.9	34.7	6.9	6.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.11.2024	33.5	17.8	7.4	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	27.9	17.8	6.5	6.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	55.4	47.9	8.9	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	39.7	32.4	7.7	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	54.1	47.6	8.8	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 : 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. Jay
Verified by



Bharath K.
Authorized by
Managing Director

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

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





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

SUMMARY OF AMBIENT AIR QUALITY- NOVEMBER 2024

Pollutants	Description	Unit	Fire Station (Plant)-1	Pattapupalem Village-2	Painampuram Village-3	Nelaturu Village-4
PM ₁₀	Minimum	$\mu\text{g}/\text{m}^3$	32.7	38.2	39.2	27.9
	Maximum		48.6	47.6	49.1	55.4
	Average		42.7	42.6	44.4	39.7
	98 Percentile		48.3	47.3	49.0	54.1
PM _{2.5}	Minimum		21.8	20.9	19.5	17.8
	Maximum		29.5	27.5	26.9	47.9
	Average		26.5	24.7	24.1	32.4
	98 Percentile		29.4	27.4	26.9	47.6
SO ₂	Minimum		10.5	10.8	7.4	6.5
	Maximum		15.5	16.1	9.1	8.9
	Average		13.4	13.7	8.2	7.7
	98 Percentile		15.5	16.1	9.1	8.8
NO _x	Minimum		7.8	7.6	6.5	6.1
	Maximum		9.7	9.9	8.5	8.1
	Average		8.6	8.7	7.7	7.2
	98 Percentile		9.7	9.9	8.5	8.1

K.S.Laj
Verified by



Bharath K.
Authorized by
Managing Director

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

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SPECTRA ENVIROTECH PVT LTD

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

TEST REPORT

ISSUED TO:

M/S. SEIL ENERGY INDIA LIMITED PROJECT-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 2024

Location-1: Fire Station (Plant)

Sample Registration Date: 01.01.2025

Issue Date: 05.01.2025

Lab Ref: SEPL/ES/SEILEILP/12-24/0001

Sample collected person details: S. Ganesh

TESTRESULT

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
02.12.2024	35.1	28.2	10.1	10.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
03.12.2024	42.7	21.2	13.6	15.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.12.2024	41.9	24.2	9.8	11.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
10.12.2024	38.7	28.9	11.6	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.12.2024	35.2	22.6	12.2	9.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
17.12.2024	44.7	20.5	14.9	14.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.12.2024	43.9	22.4	13.6	12.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
24.12.2024	46.5	25.6	11.1	13.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
30.12.2024	31.5	23.2	12.9	14.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
31.12.2024	47.9	20.9	14.1	12.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	31.5	20.5	9.8	9.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	47.9	28.9	14.9	15.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	40.8	23.8	12.4	12.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	47.6	28.8	14.8	15.0	<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 / 220830
Make : SSE (Shree Scientific Equipment)
Calibration Due : 28.02.2025

Instruments Details:

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

K.S. Jay
Verified by



Praveesh W.
Authorized by
Managing Director

Form No : F-7.8-02

Issue No & Date 01& 20.06.2019

Amend. No & Dt.: 00 & 00

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

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





SPECTRA ENVIROTECH PVT LTD

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

TEST REPORT

ISSUED TO:

M/S. SEIL ENERGY INDIA LIMITED PROJECT-1

(2x660 MW Coal Based Thermal Power Plant),

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

SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – DECEMBER 2024

Location-2: Pattapupalem village

Sample Registration Date: 014.01.2025

Issue Date: 05.01.2025

Lab Ref: SEPL/ES/SEILEILP/12-24/0002

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
02.12.2024	44.2	24.3	11.3	10.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
03.12.2024	48.3	21.6	14.5	11.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.12.2024	41.6	19.8	13.7	10.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
10.12.2024	43.1	23.4	17.1	13.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.12.2024	46.2	28.2	12.6	14.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
17.12.2024	39.5	26.4	15.7	13.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.12.2024	40.5	23.9	11.2	10.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
24.12.2024	38.6	21.2	14.3	12.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
30.12.2024	42.7	22.5	9.9	13.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
31.12.2024	46.1	26.4	16.1	15.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	38.6	19.8	9.9	10.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	48.3	28.2	17.1	15.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	43.1	23.8	13.6	12.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	47.9	27.9	16.9	15.0	<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	2.0

Instruments Details:

Instrument : Fine Particulate sampler

Model/SI NO : AAQ510 / 220831

Make : SSE (Shree Scientific Equipment)

Calibration Due : 28.02.2025

Instruments Details:

Instrument : Respirable Dust sampler

Model/SI NO : AAQM-60/220518

Make : SSE (Shree Scientific Equipment)

Calibration Due : 28.02.2025

K.S. Jay
Verified by



Praveesh W.
Authorized by
Managing Director

Form No : F-7.8-02

Issue No & Date 01& 20.06.2019

Amend. No & Dt.: 00 & 00

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

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





SPECTRA ENVIROTECH PVT LTD

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

TEST REPORT

ISSUED TO:

M/S. SEIL ENERGY INDIA LIMITED PROJECT-1

(2x660 MW Coal Based Thermal Power Plant),

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

SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – DECEMBER2024

Location-3: Painampuram Village

Sample Registration Date: 04.12.2024

Issue Date: 10.12.2024

Lab Ref: SEPL/ES/SEILEILP/12-24/0003

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
02.12.2024	45.1	24.9	14.1	11.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
03.12.2024	39.2	22.2	12.6	14.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.12.2024	40.6	24.7	12.9	10.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
10.12.2024	46.1	19.1	10.8	13.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.12.2024	47.5	26.1	13.3	12.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
17.12.2024	47.3	25.3	10.2	14.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.12.2024	45.6	21.2	9.9	15.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
24.12.2024	49.6	19.9	11.7	15.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
30.12.2024	38.9	25.1	10.4	11.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
31.12.2024	39.4	24.3	9.5	10.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	38.9	19.1	9.5	10.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	49.6	26.1	14.1	15.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	43.9	23.3	11.5	12.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	49.2	26.0	14.0	15.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	2.0

Instruments Details:

Instrument : Fine Particulate sampler

Model/SI NO : AAQ510 / 220830

Make : SSE (Shree Scientific Equipment)

Calibration Due : 28.02.2025

Instruments Details:

Instrument : Respirable Dust sampler

Model/SI NO : AAQ510 MFC / 220723

Make : SSE (Shree Scientific Equipment)

Calibration Due : 28.02.2025

K.S. Jay
Verified by



Praveesh W.
Authorized by
Managing Director

Form No : F-7.8-02

Issue No & Date 01& 20.06.2019

Amend. No & Dt.: 00 & 00

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

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SPECTRA ENVIROTECH PVT LTD

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

TEST REPORT

ISSUED TO:

M/S. SEIL ENERGY INDIA LIMITED PROJECT-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 – DECEMBER2024

Location-4: Nelaturu Village

Sample Registration Date: 04.12.2024

Issue Date: 10.12.2024

Lab Ref: SEPL/ES/SEILEILP/12-24/0004

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
02.12.2024	31.2	22.8	10.5	11.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
03.12.2024	38.9	31.6	10.1	8.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.12.2024	34.6	25.2	12.6	15.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
10.12.2024	33.5	31.7	15.3	14.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.12.2024	32.7	20.1	11.1	12.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
17.12.2024	38.4	29.8	12.3	13.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.12.2024	32.1	27.6	14.8	11.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
24.12.2024	33.8	33.4	11.5	14.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
30.12.2024	35.2	30.2	10.9	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
31.12.2024	35.1	27.1	13.3	10.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	31.2	20.1	10.1	8.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	38.9	33.4	15.3	15.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	34.6	28.0	12.2	12.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	38.8	33.1	15.2	15.1	<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 / 220830

Make : SSE (Shree Scientific Equipment)

Calibration Due : 28.02.2025

Instruments Detail:

Instrument : Respirable Dust sampler

Model/SI NO : AAQ510 MFC / 220723

Make : SSE (Shree Scientific Equipment)

Calibration Due : 28.02.2025

K.S. Jay
Verified by



Praveesh W.
Authorized by
Managing Director

Form No : F-7.8-02

Issue No & Date 01& 20.06.2019

Amend. No & Dt.: 00 & 00

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

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





SPECTRA ENVIROTECH PVT LTD

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

SUMMARY OF AMBIENT AIR QUALITY – DECEMBER 2024

Pollutants	Description	Unit	Near Fire Station (Plant)-1	Pattapupalem Village-2	Painampuram Village-3	Nelaturu Village-4
PM ₁₀	Minimum	µg/m ³	31.5	38.6	38.9	31.2
	Maximum		47.9	48.3	49.6	38.9
	Average		40.8	43.1	43.9	34.6
	98 Percentile		47.6	47.9	49.2	38.8
PM _{2.5}	Minimum		20.5	19.8	19.1	20.1
	Maximum		28.9	28.2	26.1	33.4
	Average		23.8	23.8	23.3	28.0
	98 Percentile		28.8	27.9	26.0	33.1
SO ₂	Minimum		9.8	9.9	9.5	10.1
	Maximum		14.9	17.1	14.1	15.3
	Average		12.4	13.6	11.5	12.2
	98 Percentile		14.8	16.9	14.0	15.2
NO _x	Minimum		9.7	10.1	10.3	8.9
	Maximum		15.1	15.2	15.2	15.1
	Average		12.5	12.6	12.9	12.2
	98 Percentile		15.0	15.0	15.2	15.1

K.S.Laj
Verified by



Praveesh W.
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-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 2025

Location-1: Fire Station (Plant)

Sample Registration Date: 30.01.2025

Issue Date: 06.02.2025

Lab Ref: SEPL/ES/SEILEILP/01-25/0001

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
06.01.2025	45.1	20.3	9.6	13.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
07.01.2025	33.4	24.5	10.9	10.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.01.2025	48.9	27.2	16.1	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.01.2025	35.6	19.6	11.7	14.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.01.2025	40.2	21.7	12.2	13.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.01.2025	43.8	23.4	13.6	10.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.01.2025	39.1	28.1	14.2	11.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.01.2025	49.3	19.9	15.4	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	33.4	19.6	9.6	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	49.3	28.1	16.1	14.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	41.9	23.1	13.0	11.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	49.2	28.0	16.0	14.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

Instruments Details:

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

Instruments Details:

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

K.S. Jay
Verified by



Bharath K.
Authorized by
Managing Director

Form No : F-7.8-02

Issue No & Date 01& 20.06.2019

Amend. No & Dt.: 00 & 00

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

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

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





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TEST REPORT

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M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

(2x660 MW Coal Based Thermal Power Plant),

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

SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – JANUARY 2025

Location-2: Pattapupalem village

Sample Registration Date: 30.01.2025

Issue Date: 06.02.2025

Lab Ref: SEPL/ES/SEILEILP/01-25/0002

Sample collected person details: S. Ganesh

TESTRESULT

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
06.01.2025	40.2	23.1	14.3	10.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
07.01.2025	44.1	28.3	12.6	11.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.01.2025	42.8	21.9	11.2	10.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.01.2025	39.5	24.4	14.1	14.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.01.2025	45.2	25.2	15.8	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.01.2025	40.6	21.6	13.2	15.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.01.2025	46.4	27.5	11.9	13.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.01.2025	39.9	26.3	12.8	11.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	39.5	21.6	11.2	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	46.4	28.3	15.8	15.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	42.3	24.8	13.2	15.0	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	46.2	28.2	15.6	13.5	<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 / 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



B. Ganesh K.
Authorized by
Managing Director

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

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TEST REPORT

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M/S. SEIL ENERGY INDIA LIMITED PROJECT-1

(2x660 MW Coal Based Thermal Power Plant),

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

SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – JANUARY 2025

Location-3: Painampuram Village

Sample Registration Date: 30.01.2025

Issue Date: 06.02.2025

Lab Ref: SEPL/ES/SEILEILP/01-25/0003

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
06.01.2025	49.6	19.4	8.2	10.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
07.01.2025	41.8	20.9	9.8	11.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.01.2025	43.5	22.7	9.1	14.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.01.2025	48.1	18.3	8.8	13.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.01.2025	40.2	24.1	9.6	12.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.01.2025	42.5	27.5	8.4	10.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.01.2025	44.4	26.7	7.9	11.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.01.2025	43.6	19.4	8.6	14.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	40.2	18.3	7.9	10.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	49.6	27.5	9.8	14.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	44.2	22.4	8.8	12.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	49.4	27.4	9.8	14.4	<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 : 28.02.2025

Instruments Details:

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

K.S. Jay
Verified by



Bharath K.
Authorized by
Managing Director

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

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

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TEST REPORT

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M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

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

SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – JANUARY 2025

Location-4: Nelaturu Village

Sample Registration Date: 30.01.2025

Issue Date: 06.02.2025

Lab Ref: SEPL/ES/SEILEILP/01-25/0004

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
06.01.2025	34.8	19.2	9.9	10.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
07.01.2025	33.6	20.4	11.2	14.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.01.2025	40.3	31.2	10.7	13.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.01.2025	39.5	30.4	9.4	12.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.01.2025	36.1	26.8	14.3	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.01.2025	37.3	35.1	11.1	15.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.01.2025	38.8	28.3	15.5	11.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.01.2025	36.4	35.5	10.6	14.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	33.6	19.2	9.4	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	40.3	35.5	15.5	15.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	37.1	28.4	11.6	12.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	40.2	35.4	15.3	15.1	<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 : 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. Jay
Verified by



Bharath K.
Authorized by
Managing Director

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

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

SUMMARY OF AMBIENT AIR QUALITY- JANUARY 2025

Pollutants	Description	Unit	Fire Station (Plant)-1	Pattapupalem Village-2	Painampuram Village-3	Nelaturu Village-4
PM ₁₀	Minimum	$\mu\text{g}/\text{m}^3$	33.4	39.5	40.2	33.6
	Maximum		49.3	46.4	49.6	40.3
	Average		41.9	42.3	44.2	37.1
	98 Percentile		49.2	46.2	49.4	40.2
PM _{2.5}	Minimum		19.6	21.6	18.3	19.2
	Maximum		28.1	28.3	27.5	35.5
	Average		23.1	24.8	22.4	28.4
	98 Percentile		28.0	28.2	27.4	35.4
SO ₂	Minimum		9.6	11.2	7.9	9.4
	Maximum		16.1	15.8	9.8	15.5
	Average		13.0	13.2	8.8	11.6
	98 Percentile		16.0	15.6	9.8	15.3
NO ₂	Minimum		9.5	9.9	10.4	9.9
	Maximum		14.2	15.2	14.5	15.2
	Average		11.7	15.1	12.5	12.8
	98 Percentile		14.1	13.5	14.4	15.1

K.S.Laj
Verified by



Bharath K.
Authorized by
Managing Director

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

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

TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-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 2025

Location-1: Fire Station (Plant)

Sample Registration Date: 27.02.2025

Issue Date: 06.03.2025

Lab Ref: SEPL/ES/SEILEILP/02-25/0001

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
03.02.2025	34.6	22.5	10.2	11.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
04.02.2025	40.2	23.8	15.9	12.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
10.02.2025	43.8	20.4	9.8	14.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.02.2025	36.2	24.6	13.8	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
17.02.2025	42.7	19.9	14.7	10.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.02.2025	41.9	21.8	11.5	14.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
24.02.2025	45.5	25.5	12.8	12.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.02.2025	37.4	29.7	14.4	13.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	34.6	19.9	9.8	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	45.5	29.7	15.9	14.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	40.3	23.5	12.9	12.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	45.3	29.1	15.7	14.8	<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 : 28.02.2026

Instruments Details:

Instrument : Respirable Dust sampler
Model/SI NO : APM-460 NL/381-DTG-2007
Make : Envirotech
Calibration Due: 28.02.2026

K.S. Jay
Verified by



Bharath K.
Authorized by
Managing Director

Form No : F-7.8-02

Issue No & Date 01& 20.06.2019

Amend. No & Dt.: 00 & 00

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

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

TEST REPORT

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M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

(2x660 MW Coal Based Thermal Power Plant),

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

SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – FEBRUARY 2025

Location-2: Pattapupalem village

Sample Registration Date: 27.02.2025

Issue Date: 06.03.2025

Lab Ref: SEPL/ES/SEILEILP/02-25/0002

Sample collected person details: S. Ganesh

TESTRESULT

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
03.02.2025	40.2	21.1	12.8	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
04.02.2025	45.8	24.7	12.2	12.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
10.02.2025	41.6	23.6	15.4	15.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.02.2025	43.8	25.5	11.5	13.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
17.02.2025	44.4	22.8	16.2	9.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.02.2025	41.2	20.5	15.1	14.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
24.02.2025	44.7	29.1	11.9	11.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.02.2025	38.2	24.4	15.1	12.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	38.2	20.5	11.5	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	45.8	29.1	16.2	15.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	42.5	24.0	13.8	15.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	45.6	28.6	16.1	13.5	<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 / 220831
Make : SSE (Shree Scientific Equipment)
Calibration Due : 28.02.2026

Instruments Details:

Instrument : Respirable Dust sampler
Model/SI NO : AAQM-60/220518
Make : SSE (Shree Scientific Equipment)
Calibration Due : 28.02.2026

K.S. Jay
Verified by



Bharath K.
Authorized by
Managing Director

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

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

TEST REPORT

ISSUED TO:

M/S. SEIL ENERGY INDIA LIMITED PROJECT-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 2025

Location-3: Painampuram Village

Sample Registration Date: 27.02.2025

Issue Date: 06.03.2025

Lab Ref: SEPL/ES/SEILEILP/02-25/0003

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
03.02.2025	45.2	19.1	8.8	10.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
04.02.2025	43.8	24.2	9.4	12.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
10.02.2025	41.4	28.3	7.5	11.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.02.2025	44.4	20.6	8.2	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
17.02.2025	45.6	22.3	9.1	13.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.02.2025	48.8	25.5	7.9	11.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
24.02.2025	39.9	27.9	9.6	12.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.02.2025	46.9	20.1	9.3	14.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	39.9	19.1	7.5	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	48.8	28.3	9.6	14.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	44.5	23.5	8.7	12.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	48.5	28.2	9.6	14.0	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

Instruments Details:

Instrument : Fine Particulate sampler
Model/SI NO : AAQ510 / 220732
Make : SSE (Shree Scientific Equipment)
Calibration Due : 28.02.2026

Instruments Details:

Instrument : Respirable Dust sampler
Model/SI NO : APM-460 NL/503-DTG-2008
Make : Envirotech
Calibration Due : 28.02.2026

K.S. Jay
Verified by



Bharath K.
Authorized by
Managing Director

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

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(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 2025

Location-4: Nelaturu Village

Sample Registration Date: 27.02.2025

Issue Date: 06.03.2025

Lab Ref: SEPL/ES/SEILELP/02-25/0004

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
03.02.2025	41.1	20.4	10.6	11.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
04.02.2025	37.4	19.9	14.8	15.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
10.02.2025	40.8	32.6	10.3	10.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.02.2025	38.8	35.5	9.9	11.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
17.02.2025	32.8	36.1	13.6	10.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.02.2025	35.6	32.8	11.5	14.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
24.02.2025	36.5	24.6	12.8	12.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.02.2025	39.9	31.7	15.9	9.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	32.8	19.9	9.9	9.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	41.1	36.1	15.9	15.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	37.9	29.2	12.4	12.0	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	41.1	36.0	15.7	15.4	<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 : AAM-510 /1593 DTF2015
Make : Envirotech
Calibration Due : 28.02.2026

Instruments Details:

Instrument : Respirable Dust sampler
Model/SI NO : APQ-600 NL/220517
Make : SSE (Shree Scientific Equipment)
Calibration Due : 28.02.2026

K.S. Jay
Verified by



Bharath K.
Authorized by
Managing Director

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

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SUMMARY OF AMBIENT AIR QUALITY- FEBRUARY 2025

Pollutants	Description	Unit	Fire Station (Plant)-1	Pattapupalem Village-2	Painampuram Village-3	Nelaturu Village-4
PM ₁₀	Minimum	$\mu\text{g}/\text{m}^3$	34.6	38.2	39.9	32.8
	Maximum		45.5	45.8	48.8	41.1
	Average		40.3	42.5	44.5	37.9
	98 Percentile		45.3	45.6	48.5	41.1
PM _{2.5}	Minimum		19.9	20.5	19.1	19.9
	Maximum		29.7	29.1	28.3	36.1
	Average		23.5	24.0	23.5	29.2
	98 Percentile		29.1	28.6	28.2	36.0
SO ₂	Minimum		9.8	11.5	7.5	9.9
	Maximum		15.9	16.2	9.6	15.9
	Average		12.9	13.8	8.7	12.4
	98 Percentile		15.7	16.1	9.6	15.7
NO _x	Minimum		9.9	9.5	9.9	9.6
	Maximum		14.9	15.5	14.1	15.5
	Average		12.5	15.4	12.1	12.0
	98 Percentile		14.8	13.5	14.0	15.4

K.S.Laj
Verified by



Bharath K.
Authorized by
Managing Director

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TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

(2x660 MW Coal Based Thermal Power Plant),

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

SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – MARCH 2025

Location-1: Fire Station (Plant)

Sample Registration Date: 27.03.2025

Issue Date: 03.04.2025

Lab Ref: SEPL/ES/SEILEILP/03-25/0001

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
03.03.2025	35.8	25.6	15.5	13.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
04.03.2025	41.3	20.4	13.2	15.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
10.03.2025	40.2	26.1	10.5	11.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.03.2025	38.5	29.3	9.2	10.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
17.03.2025	33.9	19.8	11.8	11.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.03.2025	44.6	23.3	13.6	12.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
24.03.2025	43.7	19.2	14.1	11.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.03.2025	39.1	25.5	12.9	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	33.9	19.2	9.2	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	44.6	29.3	15.5	15.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	39.6	23.6	12.6	12.0	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	44.5	28.3	15.3	15.2	<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 : 28.02.2026

Instruments Details:

Instrument : Respirable Dust sampler
 Model/SI NO : APM-460 NL/381-DTG-2007
 Make : Envirotech
 Calibration Due: 28.02.2026

K.S. Jay
 Verified by



Bharath K.
 Authorized by
 Managing Director

Form No : F-7.8-02

Issue No & Date 01& 20.06.2019

Amend. No & Dt.: 00 & 00

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

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

TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

(2x660 MW Coal Based Thermal Power Plant),

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

SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – MARCH 2025

Location-2: Pattapupalem village

Sample Registration Date: 27.03.2025

Issue Date: 03.04.2025

Lab Ref: SEPL/ES/SEILEILP/03-25/0002

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
03.03.2025	36.9	20.5	12.4	10.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
04.03.2025	43.6	21.7	14.2	13.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
10.03.2025	40.2	29.4	13.8	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.03.2025	39.9	22.6	12.5	15.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
17.03.2025	40.2	19.5	15.5	10.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.03.2025	42.8	23.1	11.9	12.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
24.03.2025	44.6	28.4	13.3	14.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.03.2025	40.1	26.7	18.8	11.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	36.9	19.5	11.9	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	44.6	29.4	18.8	14.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	40.9	23.6	13.8	15.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	43.6	28.2	16.6	13.5	<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 / 220831
Make : SSE (Shree Scientific Equipment)
Calibration Due : 28.02.2026

Instruments Details:

Instrument : Respirable Dust sampler
Model/SI NO : AAQM-60/220518
Make : SSE (Shree Scientific Equipment)
Calibration Due : 28.02.2026

K.S. Jay
Verified by



Bharath K.
Authorized by
Managing Director

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

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(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 2025

Location-3: Painampuram Village

Sample Registration Date: 27.03.2025

Issue Date: 03.04.2025

Lab Ref: SEPL/ES/SEILEILP/03-25/0003

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
03.03.2025	40.1	19.9	9.1	12.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
04.03.2025	47.9	22.4	8.9	13.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
10.03.2025	43.6	30.8	7.9	12.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.03.2025	46.5	23.5	11.8	10.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
17.03.2025	41.2	26.7	8.6	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.03.2025	45.4	27.4	7.5	15.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
24.03.2025	42.3	21.2	9.5	14.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.03.2025	46.9	24.1	7.1	12.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	40.1	19.9	7.1	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	47.9	30.8	11.8	15.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	44.2	24.1	8.6	12.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	47.8	27.7	9.8	14.9	<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 : AAQ 510 / 220732
Make : SSE (Shree Scientific Equipment)
Calibration Due : 28.02.2026

Instruments Details:

Instrument : Respirable Dust sampler
Model/SI NO : APM-460 NL/503-DTG-2008
Make : Envirotech
Calibration Due: 28.02.2026

K.S. Jay
Verified by



Bharath K.
Authorized by
Managing Director

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

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SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – MARCH 2025

Location-4: Nelaturu Village

Sample Registration Date: 27.03.2025

Issue Date: 03.04.2025

Lab Ref: SEPL/ES/SEILEILP/03-25/0004

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
03.03.2025	40.6	21.8	11.4	9.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
04.03.2025	35.9	19.5	13.6	13.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
10.03.2025	41.1	35.4	15.5	11.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.03.2025	42.9	30.2	10.8	12.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
17.03.2025	36.2	34.7	11.1	14.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.03.2025	39.6	38.4	9.9	13.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
24.03.2025	33.4	21.3	17.3	10.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.03.2025	31.5	35.5	14.6	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	31.5	19.5	9.9	9.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	42.9	38.4	17.3	14.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	37.7	29.5	12.9	12.0	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	42.6	37.1	15.8	14.7	<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 : Enviro tech
Calibration Due : 28.02.2026

Instruments Details:

Instrument : Respirable Dust sampler
Model/SI NO : APQ-600 NL/220517
Make : SSE (Shree Scientific Equipment)
Calibration Due : 28.02.2026

K.S. Jay
Verified by



Bharath K.
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Managing Director

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SUMMARY OF AMBIENT AIR QUALITY- MARCH 2025

Pollutants	Description	Unit	Fire Station (Plant)-1	Pattapupalem Village-2	Painampuram Village-3	Nelaturu Village-4
PM ₁₀	Minimum	$\mu\text{g}/\text{m}^3$	33.9	36.9	40.1	31.5
	Maximum		44.6	43.6	47.9	42.9
	Average		39.6	40.9	44.2	37.7
	98 Percentile		44.5	43.6	47.8	42.6
PM _{2.5}	Minimum		19.2	19.5	19.9	19.5
	Maximum		28.7	28.4	27.8	37.4
	Average		23.6	23.6	24.1	29.5
	98 Percentile		28.3	28.2	27.7	37.1
SO ₂	Minimum		9.2	11.9	7.1	9.9
	Maximum		15.5	16.8	9.9	15.9
	Average		12.6	13.8	8.6	12.9
	98 Percentile		15.3	16.6	9.8	15.8
NO _x	Minimum		9.6	9.9	9.5	9.4
	Maximum		15.5	15.6	14.9	14.9
	Average		12.1	15.4	12.6	12.0
	98 Percentile		15.3	13.5	14.9	14.7

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CSR Updates

HY-2 FY2024-25



ANNEXURE-XI



CSR Updates- Health

(Telemedicine Center, Audiometry Screening, Mobile Medical Unit)



HEALTH

➤ **Telemedicine Centers MV Palem:** Total beneficiaries:- 2328

- General consultations - 2167
- Specialty Consultations - 161
- Pharmacy -2233; Lab Investigations - 1061

Community Outreach coverage

- Social Health Education Programme – 309 beneficiaries
- Non-Communicable Disease Screenings - 558 beneficiaries.

➤ **Telemedicine Centers Salipeta:** Total beneficiaries:- 1841

- General consultations - 1600
- Specialty Consultations - 89
- Pharmacy – 1646 ; Lab Investigations - 785

Community Outreach coverage

- Social Health Education Programme - 431 beneficiaries
- Non-Communicable Disease Screenings - 707 beneficiaries

➤ **Community Audiometry Camps:** Total beneficiaries:- 8072

- Total Screenings- 8072
- Distribution of Hearing Aids -500

➤ **Mobile Medical Unit:** Total beneficiaries:- 2191 (Activity initiated In the November Month of 2024)

- Male-958, Female-1170, Female Child – 24, Male Child -38 were Covered



Community Audiometry Camps



Mobile Medical Unit

HEALTH AND WELLNESS CENTER - SOCIAL OUTREACH PHOTOS



© SEIL 2025
SOCIAL HEALTH EDUCATION AWARENESS CAMPS

NON COMMUNICABLE DISEASE SCREENING

COMMUNITY EAR SCREENING AND HEARING AID DISTRIBUTION GLIMPSES



MOBILE MEDICAL UNIT - HEALTH SCREENING GLIMPSES



CSR Updates- Education

(Transforming Preprimary Education in Anganwadi Centers)

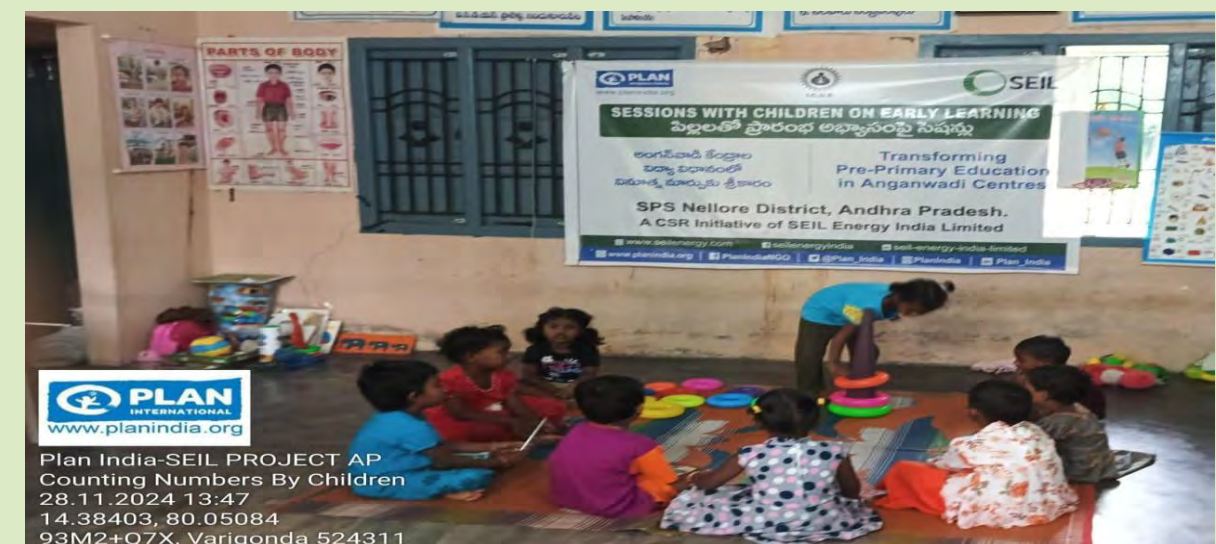


Education

➤ Transforming Preprimary Education in Anganwadi Centers (Plan India) Progress In the Quarter

Project Completed in 8 Anganwadi Centers benefiting 113 children

- 331 sessions in teaching the English alphabet. This includes education, slate work, and recitation
- 309 sessions were conducted to teach the Telugu alphabet.
- 207 sessions were conducted to teach the Numbers
- 284 Sessions were conducted on identifying shapes
- 16 Pre-Assessment of outcomes of the initiative carried out across all 8 Anganwadi's
- 8Community awareness rallies conducted in the villages
- 8 Mother group meetings conducted
- 8 Low-Cost TLM preparation Awareness conducted to Anganwadi staff and preparation of Low-Cost TLM by mother groups in the sessions



TRANSFORMATION OF PRE-PRIMARY EDUCATION – ACHEIVEMENTS



- **Construction of New Toilets:** Anganwadi centers are provided by constructing 5 new child-friendly toilets. There were no toilets available before the start of the project and children either go home or openly defecate.



- **Upgradation Of Anganwadi centers:** Anganwadi centers are provided by constructing 5 new child-friendly toilets. There were no toilets available before the start of the project and children either go home or openly defecate.



TRANSFORMATION OF PRE-PRIMARY EDUCATION – ACHEIVEMENTS



- **Improvement In Learning Levels:** 142 children from the beginning of the project across 8 Anganwadi centers have improved learning levels with the support of TLM supported in the project.



- At the start of the project 0% of parents worked on preparation of TLM. At the end of the project, 100% of the parents know how to make Low cost TLM and 78% of parents preparing at Household levels and practicing with children



Play Day Celebrations And Home Visits

Play Day is an innovation in the project which was for the first time implemented in the district and well received by the parents, Women and Child Department. As a result, the **participation of fathers increased by 28 %** in the project in various projects. 100% Home Visits increased regular attendance of children and effectiveness



TRANSFORMATION OF PRE-PRIMARY EDUCATION - TRAINING GLIMPSES



వినుత్తు మార్పుకు శ్రీకారం
SPS Nellore District, Andhra
A CSR Initiative of SEIL Energy India Limited
www.seilenergy.com seilenergyindia seil-
www.planindia.org PlanIndiaNGO @Plan_India



CSR Updates – Skill Development



Skill Development

Youth Empowerment Through Make India Capable

Graduate Batches						
SL No	Batch	Centers	Programme	Graduated	Job Joined	Self Employment
1	I	Salipeta	Skill Training	29	23	-
2	II	Salipeta	Skill Training	18	13	-
3	III	Dhanalakshmi Puram	Skill Training	18	10	-
4	IV	South Amuluru	Self Employment Training	20	0	12
Total				85	46	12
Ongoing Batches						
5	V	Dhanalakshipuram	Skill Training	24		
6	VI	Mallikarjunpuram	Self Employment Training	15	-	
Total				39		
Overall				124		

❖ Major employers: **Allset Business Soln, D-Mart, Daikin, CX-India**
Sectors: **BPO, Retail, Manufacturing**

Social Security Scheme Details and Overall Economic Valuation

Scheme Names	Total Annual Value of schemes	# Members Applied	Total Annual Economic Value
Ayushman Bharath Card - BPL	5,00,000	177	8,85,00,000
PM Vishwakarma	1,00,000	127	1,27,00,000
Eshram Card	2,00,000	197	3,94,00,000
ATM Card (Insurance)	2,00,000	5	10,00,000
Total		506	14,16,00,000

Summary:

Households provided social entitlements
Total economic valuation of the schemes connected: **14.16 Cr**

YOUTH AND WOMEN EMPOWERMENT TRAININGS AND GRADUATION DAY EVENT GLIMPSES



SUCCESS STORY:



From Struggles to Success: Likitha' s Journey of Transformation

Likitha E, a young girl from Nellore, struggled with her English and communication skills, affecting her confidence and career prospects. Determined to improve, she joined the 45-day Youth Empowerment Program by SEIL and HHH Foundation. Through structured training, mentorship, and practice, Likitha gained English proficiency and confidence to express herself professionally. The program's supportive environment helped her unlock her potential, transforming her into a capable individual. Her dedication paid off when she secured a job as a Calling Executive at All Set Business Solutions, earning ₹14,000 monthly. Likitha' s inspiring journey highlights the power of perseverance and the right opportunities.



CSR Updates (Decarbonisation)

ON GRID SOLAR PROJECTS AT CHARITABLE HOSPITALS - NELLORE



➤ 250 KWP solar on-grid installations completed at Three Charitable institutions (Jai Bharat Hospital, St Joseph Hospital & Dr. PV Ramachandra Reddy People’s Poly Clinic) at Nellore.

SNO	Location	Capacity	Module Description	Inverter Capacity	Module Mounting Structure type	Commercial Model
1	St. Joseph Hospital,	100kWp	186 Nos x 540 Wp	1 x 80 kW	Ballast Type, non-penetrating structure	Net Metering with DISCOM
2	Jaya Bharat Hospital,	50 Kwp	93 Nos x 540 Wp	1 x 40 kW	Anodized Aluminum Rails for mounting over Metal Roof Shed	Net Metering with DISCOM
3	People’s Poly Clinic	100 kWp	186 Nos x 540 Wp	1 x 80 kW	Anodized Aluminum Long Rail Structure for mounting over uPVC Roof Sheets	Net Metering with DISCOM



DECARBONISATION
&
OTHERS

ON GRID SOLAR PROJECTS AT CHARITABLE HOSPITALS - NELLORE



JAYABHARAT HOSPITAL – 50 kWp



ST JOSEPH HOSPITAL -100 kWp



PEOPLES POLYCLINIC -100 kWp



Rural Development

Veterinary Camps – ASSET&W

- Three Veterinary camps were conducted at Pynapuram, Gollapalem, Eduru
- A total of 151 Farmers were registered in 3 camps covering treatment and medicine to Cattle 168, Buffaloes 1082, Sheep 1018, Goats 260 and Poultry 1350
- Trevis Installed at Four Locations 1. Gollapalem 2. Veterinary Hospital Eduru 3. Pynapuram Waghartha 4. Pynapuram DH wada



INAGURATION OF TREVIS



DISTRIBUTION OF VETERINARY MEDICINES TO FARMERS

CSR Updates- Health

(Telemedicine Center, Audiometry Screening, Mobile Medical Unit)



HEALTH

➤ **Telemedicine Centers MV Palem:** Total beneficiaries:- 2876

- General consultations - 2337
- Specialty Consultations - 539
- Pharmacy -2850; Lab Investigations - 759

Community Outreach coverage

- Social Health Education Programme – 348 beneficiaries
- Non-Communicable Disease Screenings - 672 beneficiaries.

➤ **Telemedicine Centers Salipeta:** Total beneficiaries:- 2513

- General consultations - 2014
- Specialty Consultations - 499
- Pharmacy – 2472 ; Lab Investigations - 1686

Community Outreach coverage

- Social Health Education Programme – 523 beneficiaries
- Non-Communicable Disease Screenings - 993 beneficiaries

➤ **Community Audiometry Camps:** Total beneficiaries:- 10021

- Total Screenings- 10021
- Distribution of Hearing Aids -759
- Initiative completed in the month of March with total 18081 Screenings and 1440 Hearing aids distributed



Community Audiometry Camps



Mobile Medical Unit

CSR Updates- Health

(Telemedicine Center, Audiometry Screening, Mobile Medical Unit)



HEALTH

➤ **Mobile Medical Unit:** Total beneficiaries:- 4112

- Male-1763, Female-2265, Female Child –39, Male Child -45 were Covered



Mobile Medical Unit

➤ **CANCER SCREENING - HOMI BHABHA CANCER HOSPITAL AND RESEARCH CENTER**

- Cases screened for Oral, Cervical and Breast
- School Awareness Conducted- 6 Numbers
- International Day of Cancer observed
- Number of villages sensitization programme conducted -11 Villages in Muthuru and TP Gudur Mandal
- Number of Villages Screening Conducted -8 Villages in Muthuru and TP Gudur Mandal
- Numbers Screened -1100 Numbers



Cancer Screening

HEALTH AND WELLNESS CENTER UPDATE (SOCIAL OUTREACH PHOTOS)



SOCIAL HEALTH EDUCATION AWARENESS CAMPS



NON-COMMUNICABLE DISEASE SCREENING



CSR UPDATES

HEALTH AND WELLNESS CENTER SPECIAL MEDICAL CAMPS GLIMPSES



MEGA HEALTH CAMP FOR THE COMMUNITY



CANCER AWARENESS PROGRAMME AT MUTHUKURU



COMMUNITY EAR SCREENING AND HEARING AIDS DISTRIBUTION (GLIMPSES)



MOBILE MEDICAL UNIT - HEALTH SCREENING GLIMPSES



MOBILE MEDICAL UNIT - HEALTH SCREENING GLIMPSES



HEALTH SCREENING IN COMMUNITIES



HOME VISITS OF DOCTOR AND NURSING STAFF TO BEDRIDDEN PATIENTS

CSR Updates – Skill Development



Skill Development

Youth Empowerment Through Make India Capable

- Head Held High (HHH)- 23 persons Completed Youth Empowerment training and 13 numbers have joined for employment in different organizations . 15 Numbers have been provided self employment training on Scented Candle making, Cleaning detergents , liquid soaps, artificial flowers and chocolate making.

Jute Bag Stitching Training Programme

- Training completed for 105 members in the community to date
On Jute bag stitching at SEDC



GRADUATION DAY GLIMPSES

Employee Engagement in CSR Initiatives



- 45 numbers from 12 Teams Visited CSR Projects around 118 manhours spent by employees on the CSR Projects and interacted with beneficiaries. Details are provided in the table

SL.No.	Team Lead (Shri)	Name of Project	Team Size	Direct or Partner	Nos of Visit	Total Manhours Spent
1	Shankar Prasad	Health & Wellness Center at MV Palem	3	Apollo Telemedicine	2	4
		Health & Wellness Center at Salipeta	3	Networking Foundation	1	4
2	Rajasekhar Reddy Sammidi	RO Plant (1st cluster - 5 Plants)	2	Direct	1	12
3	Gnanadesigan N	RO Plant (2nd cluster - 4 Plants)	3	Direct	1	12
4	D. Kanakam	Solar & Medical support to Charitable Institution - Jay Bharat Hospital, St Joseph Hospital, Ramachandra Reddy Hospital and Indian Redcross Hospital	6	Direct	2	24
5	BV Srinivas	Training of women on Jute stitching	4	YUVA & Ragapranitha	1	3
6	Prasad Chavare	Plantation Project including Solar Water Pumps installations in VSU	5	Direct	1	12
7	N S Venkatesan	Youth Empowerment Training	3	Head Held High	3	15
8	Shamsundar Aswale	Solar & Physiotherapy support to Nirmala Hriday Bhavan	3	Helpage	1	2
9	D. Shiva Rama Krishna	Mobile Medical Unit	2	Seva mob	1	1
10	Madhav R Bitra	Online Monitoring of CSR Projects	4	Soulace	1	5
11	Brig. Raghu Ram	Solar Street Light in Villages around plant	5	Direct	2	16
12	Sanjeev Kumar	Support for Cancer Project in Nellore District	2	Homibaba Cancer Hospital and Research Center	1	8
Total					18	118

EMPLOYEE ENGAGEMENT GLIMPSES



CSR UPDATES

EMPLOYEE ENGAGEMENT - VISIT PHOTOS



TEAM VISIT TO CANCER SCREENING PROGRAMME



TEAM VISIT TO JUTE BAG TRAINING PROGRAMME

Thank you



SEIL Project-1 Environment Expenditure			
S.No	Area	Particulars	Expenses in Rs.
1	CHP	Operations (CHP)	9,052,340
2		Mechanical Maintnenace	34,570,500
3		Electrical Maintnenace	11,340,000
4		C&I Maintenance	460,000
5		Coal Yard Sprinklers	350,000
6		DFDS System	450,000
7	AHP	Operations	3,042,058
8		Mechanical Maintnenace	1,475,000
9		Electrical Maintnenace	4,023,000
10		C&I Maintenance	4,000,000
11		Ash Pond (Civil)	15,000,000
12	Others	Green Belt	7,973,858.00
13		Fly Ash	1,246,080
14		Haz Waste disposal	206,314



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TEST REPORT

ANNEXURE-XIII

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

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

Discipline: Chemical

Group: Water

Product: Heavy Metal Analysis of Coal- November 2024

Sample Location: Coal Feeder#2

Date of Monitoring: 14.11.2024

Sample Collected By: Ganesh

Sample Registration Date: 15.11.2024

Analysis Starting Date: 15.11.2024

Analysis Completed Date: 21.11.2024

Issue Date: 21.11.2024

Lab Ref: SEPL/ES/SEILEILP/11-24/0001

TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	ppm	5.0	0.71
2	Mercury as Hg	USEPA-3050B Dec-1996(Rev.2)	ppm	0.2	<0.03
3	Chromium as Cr	USEPA-3050B Dec-1996(Rev.2)	ppm	5.0	1.37
4	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	ppm	5.0	0.51

Note: USEPA- United States Environmental Protection Agency

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SPECTRA ENVIROTECH PVT LTD

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TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-1

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

Discipline: Chemical

Group: Water

Product: Heavy Metal Analysis of Coal - FEBRUARY 2025

Sample Location: Coal Feeder#1

Date of Monitoring: 17.02.2025

Sample Collected By: Ganesh

Sample Registration Date: 18.02.2025

Analysis Starting Date: 18.02.2025

Analysis Completed Date: 24.02.2025

Issue Date: 24.02.2025

Lab Ref: SEPL/ES/SEILEILP/02-25/0001

TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	ppm	5.0	0.68
2	Mercury as Hg	USEPA-3050B Dec-1996(Rev.2)	ppm	0.2	<0.03
3	Chromium as Cr	USEPA-3050B Dec-1996(Rev.2)	ppm	5.0	1.33
4	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	ppm	5.0	0.47

Note: USEPA- United States Environmental Protection Agency

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





Certificate Tracking ID / CTID :2504761
Date of Issue / DOI :25-Jan-2025
Certificate Serial No. / CSN :ULR-TC1170325000000424F



TC-11703



Radioanalytical Laboratory RADIOACTIVITY TEST CERTIFICATE

Ref: BRIT/RAL/DOM/764-775/MISC/576-587/24-25

To :
M/S.SPECTRAENVITECH PRIVATE LIMITED
PLOT NO. 142/1, ERUVADA JUNCTION,
ERUVADA VILLAGE, SABBAVARAM MANDAL,
VISAKHAPATNAM - 531035
ANDHRA PRADESH, INDIA.

This is regarding the sample of "COAL, FLY ASH & BOTTOM ASH" sent for radioactivity analysis vide your letter ref.: SEPL P1/BRIT/NAVI MUMBAI/2024/001 dated 12.12.2024 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,ERUVADA JUNCTION,
ERUVADA VILLAGE, SABBAVARAM MANDAL,,
VISAKHAPATNAM - 531035
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*

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

DATE OF SAMPLES COLLECTION : *24.12.2024*

DATE OF RECEIPT OF SAMPLE: 24.12.2024

DATE OF COMPLETION OF TEST: 18.01.2025

The Samples were analyzed 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	26.2±1.8	18.7±0.8	14.3±1.7	187.1±5.7
2	FLY ASH	82.6±1.6	117.2±1.4	97±4.2	471±11.5
3	BOTTOM ASH	93.4±2.6	130.9±3.2	68.3±7.3	467.5±14.2

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://portal.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.

May 23rd, 2023

Raghav Trivedi
Chief Executive Officer