



SEIL Energy India Limited
(Formerly Sembcorp Energy India Limited)
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DLF Cyber City, Gurugram – 122002,
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SEIL P2/MoEF&CC/Chennai/2024/003
30th May 2024

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

**Sub.: Submission of Half Yearly EC Compliance Report of SEIL Energy India Limited Project-2
(Formerly Sembcorp Energy India Limited) for the period from October 2023 to March 2024**

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

Dear Sir,

As per the provision of Environment Clearance, we hereby submit the half yearly EC compliance status report for the period of October 2023 to March 2024 of SEIL Energy India Limited Project-2 (Formerly Sembcorp Energy India Limited), Nellore.

Hope the above is in order.

Thanking you,

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

Pavan Kumar Rao V
Head HSE- SEIL

Encl: As above

Copy To:

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



Right Choice

UNIVERSAL
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MoEF & CC, GOI, New Delhi.

Certified by ISO 9001: 2015 and
ISO 45001 : 2018

Date: 29-05-2024

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

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

**Ref: EC Letter No. J 13012/76/2009–IA.II (T) dated 30.09.2010, amended 18.05.2011
& 04.03.2016**

Respected Sir/Madam,

With reference to "Environmental Clearance" issued to **M/s. SEIL Energy India Limited Project-2** (Formerly known as Sembcorp Energy India Limited), Nellore, we are herewith certifying that **M/s. SEIL Energy India Limited Project-2** has complied all the conditions imposed in EC and attached annexures for the period of October 2023 to March 2024.

Thanking you,

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

T. Krishna

T Krishna
(Technical Manager)



Copy To:

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

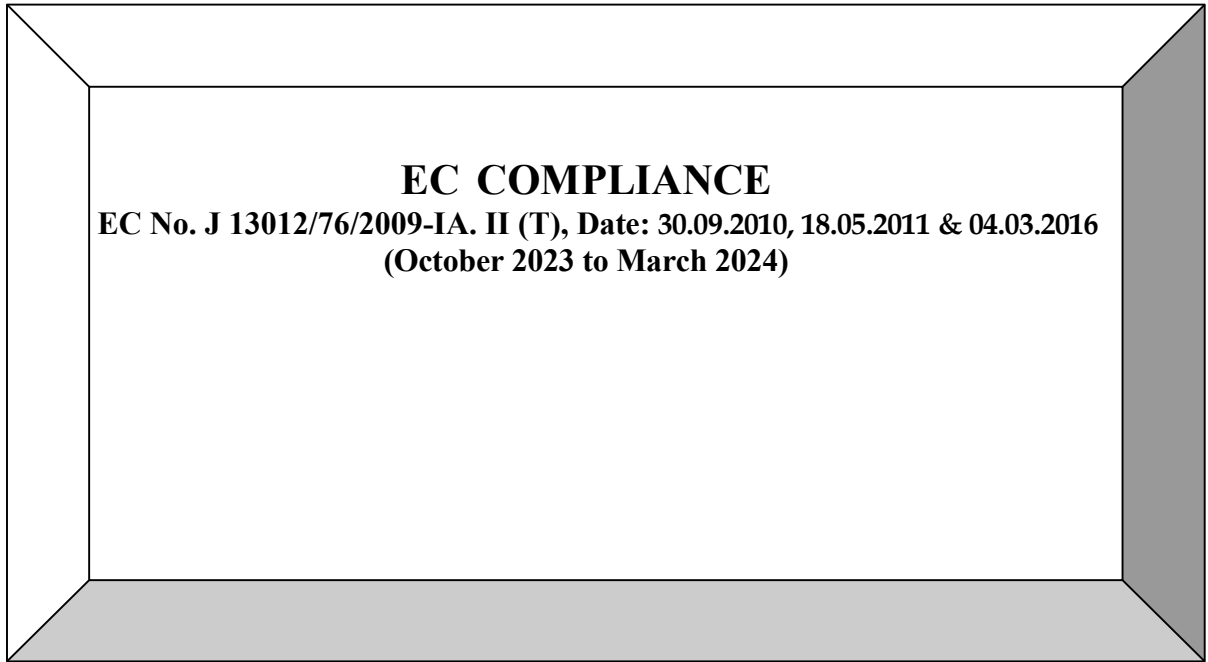
Plot/Shed No.28, Road No.1, Phase-1, IDA Mallapur, Hyderabad - 500 076.

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

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

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

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



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



M/s. SEIL Energy India Limited Project-2

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Ananthavaram & Varakavipudi (V), Thotapalli Gudur (M),

SPSR Nellore (Dist.), Andhra Pradesh.

01. Background:

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

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

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



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Fig. - 1 (LOCATION MAP)

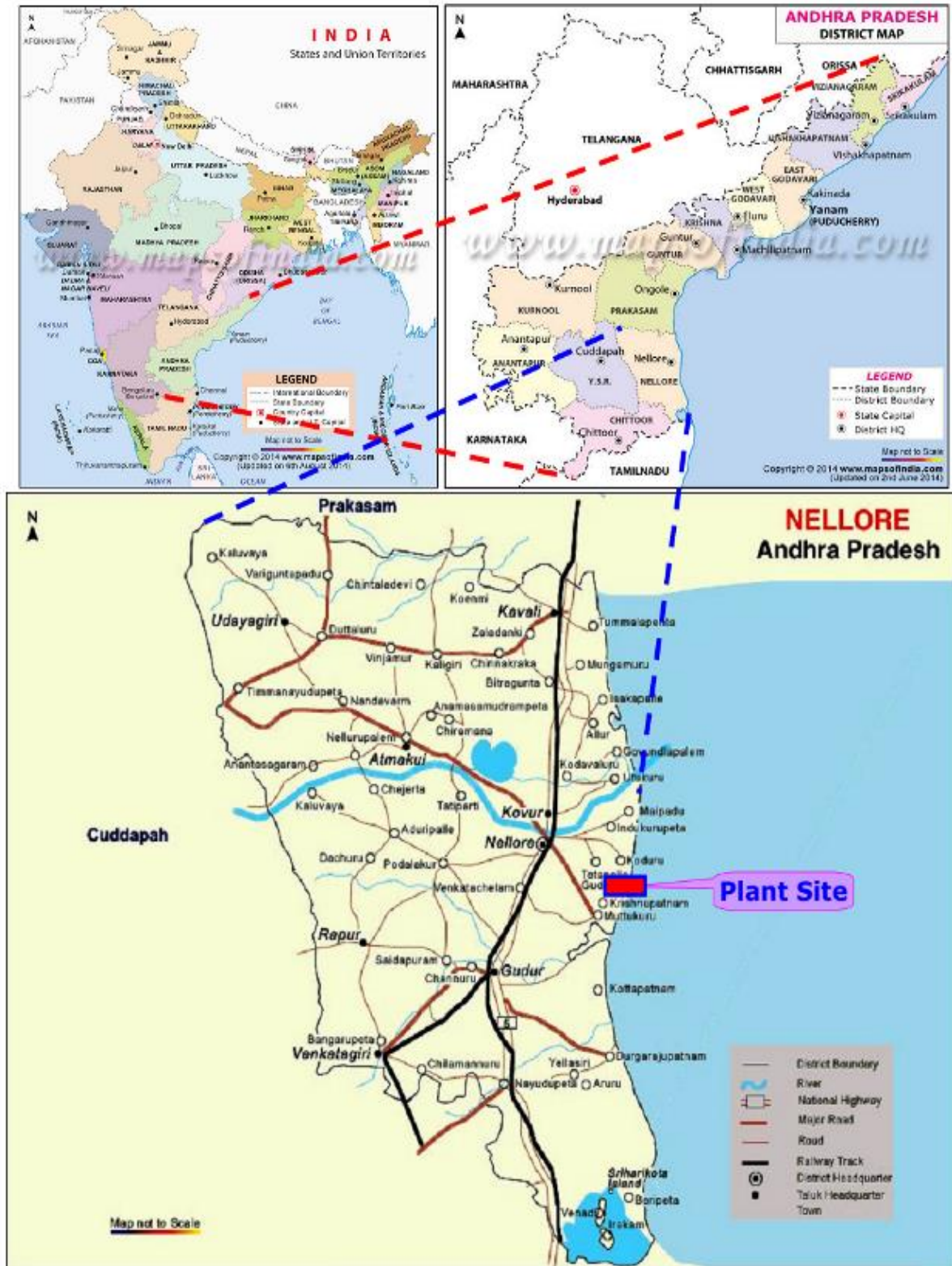
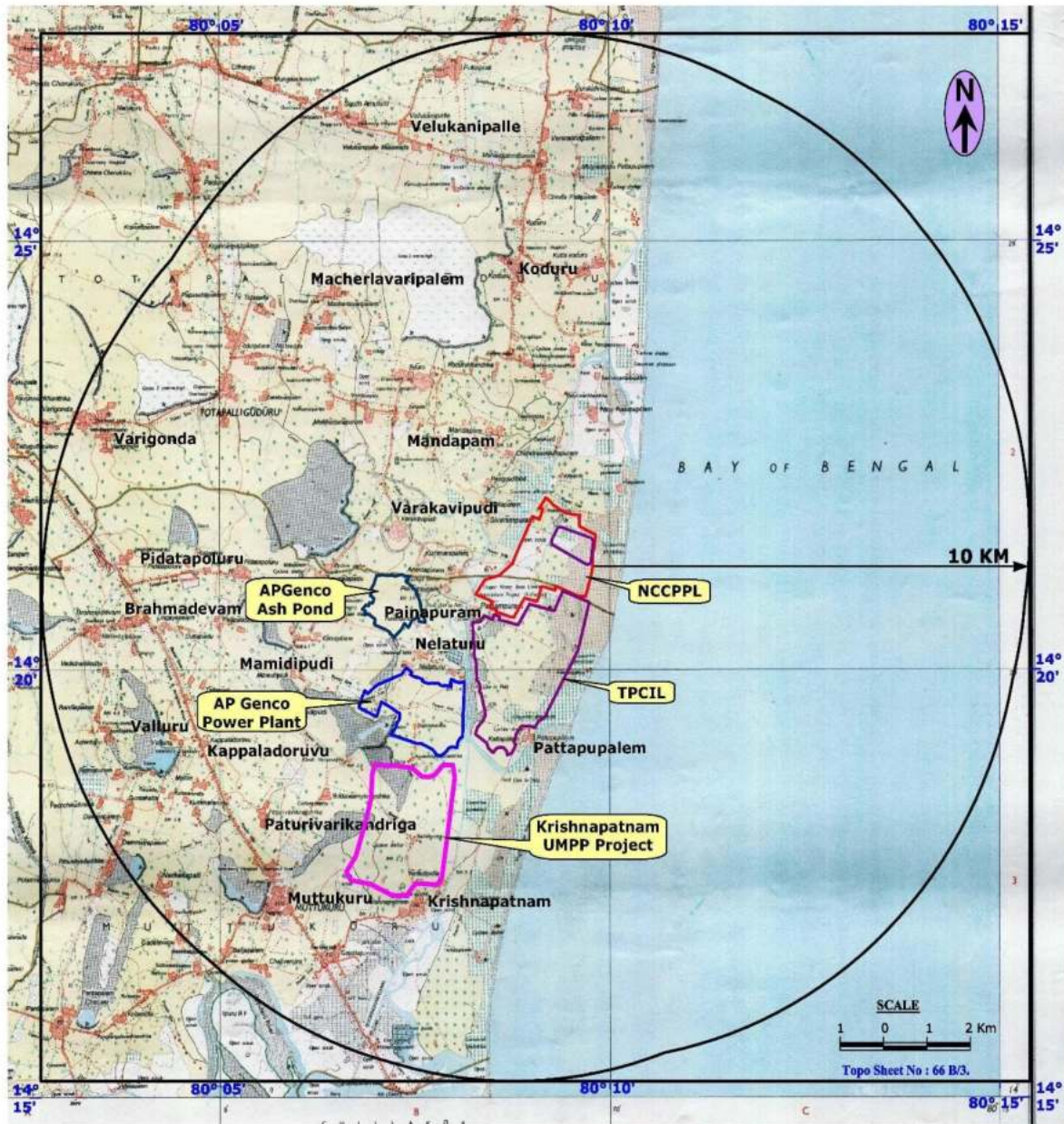


Fig. - 2 (TOPOGRAPHICAL MAP OF 10 KM RADIUS AREA)

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LEGEND
 — Project Area
 — Ash Pond

Plant Site Co-ordinates
 Latitude : 14° 20' 36.9" to 14° 21' 57.6" N
 Longitude : 80° 08' 05.0" to 80° 09' 31.4" E

Roads, metalled according to importance: distance stone — unmetalled: do. Cart-track, Pack-track and pass. Foot-path with bridge Bridges with piers, without. Causeway. Ford or ferry Streams with track in bed, undammed. Canal Dams: masonry or rock-filled, earthwork. Weir River banks, oblique steep, 3 to 6 metres, over 6 metres. — dry with water channel, with island & rocks. Tidal river Submerged rocks. Shoal. Swamp. Reeds Wells lined, unlined. Tube-well. Spring. Tanks: perennial; dry. Embankments: road or rail; tank. Broken ground Railways: broad gauge: double, single with station; under constr. — meter gauge: do. do. with distance stone, do. Mineral line or tramway. Telegraph line. Cutting with tunnel Contours with sub-features. Rocky slopes. Cliffs Sand features: (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100)	Towns or Villages: inhabited; deserted. Fort Huts: permanent; temporary. Tower. Antiquities Temple. Chhatri. Church. Mosque. Idgh. Tomb. Graves Lighthouse. Lightship. Boys: lighted; unlighted. Anchorage Mine. Vine on trellis. Grass. Scrub Palms: palmyra; other. Plantain. Conifer. Bamboo. Other trees Boundary, International — main demarcated; undemarcated — district subdivision; island or island; forest — pillars: surveyed; unlocated Heights: triangulated; station; poles; approximate Bench-mark: geodetic; tertiary; canal Post office. Telegraph office. Combined office. Police station — PD TO PTO PS Bungalow: dhk or travellers; inspection. Rest-house — DB / (Const) RH (forest) Circus house. Camping ground. Forest: reserved; protected. CH CG RF PF Spaced names: administrative; locality or tribal — KIKRI NAGA
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02. Statutory Approvals/Clearances:

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

S. No.	Authorization	Accorded By	Validity
1	Environment Clearance	Ministry of Environment, Forests & Climate Change, Govt. of India	MoEF Letter J-13012/76//2009- IA.II (T) dated 30/09/2010. The validity of EC is extended to 7 years as per MoEF&CC Notification Dtd. 29-04-2015 to start the operations. Accordingly, SEIL commenced its operations by Nov 2016, well within due date.
2	CRZ Clearance	Ministry of Environment, Forests & Climate Change, Govt. of India	F.No. 11-44/2011-IA.III. Dated: 9 th April 2012 and amendment on 1 st May 2014
3	Consent for Operation (CFO) for two units	AP Pollution Control Board	Order No. APPCB/VJA/NLR/182/HO/CFO/ 2016 Dated: 14 th Dec 2021. Renewed and is valid till 28th February 2027. CTO Name change approval accorded vide Order No. APPCB/11022/70/2019-TEC-CFO-APPCB dated 26-07-2023



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CONDITION WISE COMPLIANCE TO ACCORDED ENVIRONMENT CLEARANCE

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



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S No.	Condition	Compliance
iv	Local employable youth shall be identified and trained in skills relevant to the project for eventual employment in the project itself. The action taken report and details thereof to this effect shall be submitted to the Regional Office of the Ministry and the State Govt. Dept. concerned from time to time.	<p>Complying.</p> <p>During October 2023 to March 2024 SEIL has supported the local community in acquiring skills for livelihood. SEIL CSR is primarily focused on Health, Education and Skill & Entrepreneurship development programs.</p> <p>CSR Updates from October 2023 to March 2024 attached as Annexure- I.</p>
v	The project proponent shall establish at its own costs a Fish Landing Platform, Ice Plant etc. and shall accordingly submit to the Regional Office of the Ministry and the Fishery Department of the State Govt. a detailed plan and implementation schedule. The project proponent shall also prepare an action plan for implementation. Regarding providing sustainable fishing option for fishermen community in the area.	As per the Recommendations of 18 th Meeting of Reconstituted Expert Appraisal Committee (EAC) dated 27 th June, 2018, SEIL Project-2 (Formerly known as Sembcorp Energy India Limited) have submitted the Socio-economic study and need based assessment study report to MoEF&CC, APPCB on 16 th April 2019 [Ref. No: SEIL Project-2/MoEF/New Delhi/EC/2019/78].
vi	An endowment of Fishermen Welfare Fund shall be created out of CSR component for specific activities to be finalized within three months for upliftment of the lives of fishing community in the region. Creation of facilities such as Fish Drying Platforms /Ice plant can as mentioned at clause (v) above can form a part of the scheme.	As per the Recommendations of 18 th Meeting of Reconstituted Expert Appraisal Committee (EAC) dated 27 th June, 2018, SEIL Project-2 (Formerly known as Sembcorp Energy India Limited) have submitted the Socio-economic study and need based assessment study report to MoEF&CC, APPCB on 16 th April 2019 [Ref. No: SEIL Project-2/MoEF/New Delhi/EC/2019/78].



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


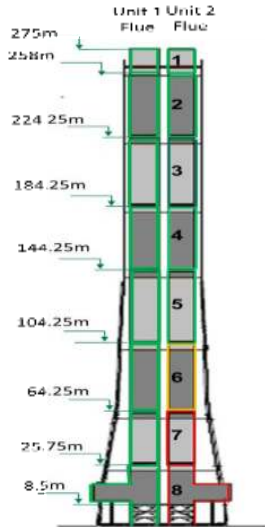


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S No.	Condition	Compliance
xi	No waste (effluent) shall be discharged into canal systems, backwaters, marshy areas and the sea (as applicable) without treatment.	<p>Complying.</p> <p>ETP & STP effluent treated water is reused for green belt development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




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xv	Hydro-geological study of the area shall be reviewed annually and results submitted to the Ministry and concerned agency in the State Govt. In case adverse impact on ground water quantity and quality is observed, immediate mitigating steps to contain any adverse impact on ground water shall be undertaken	<p>Complying.</p> <p>No Ground water is being used at SEIL. Periodic hydrogeology studies are carried out for the site and surroundings. Hydrogeology Study is being reviewed annually and latest report submitted vide letter No SEIL P2/MoEF&CC/Chennai/2024/002 dated 29th May 2024.</p>
xvi	A stack of 275 m height shall be provided with continuous online monitoring equipment for SO _x , NO _x and PM _{2.5} and PM ₁₀ . Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack shall also be monitored on periodic basis.	<p>Complied.</p> <p>Online Continuous Emission Monitoring System (CEMS) is in operation for monitoring PM, SO_x, NO_x. Flue gas Exit Velocity, Mercury emissions are being monitored through APPCB approved third party and the reports of Stack Emission Monitoring are attached as Annexure-V.</p> <p>Stack height of 275m has been provided for wider dispersion of gaseous emissions.</p> <div style="display: flex; align-items: center;">   </div> <p>CEMS platform & installation done at 103 m elevation.</p>





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S No.	Condition	Compliance
xvii	Sulphur content in the imported coal shall not exceed 0.60%.	Complying.
xviii	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm ³ .	Complying. MoEF&CC approved Third party reports of Stack Emissions Monitoring attached as Annexure-V.
xix	Provision for FGD shall be provided for future use as and when required.	Noted. As per the revised MoEF&CC Notification G.S.R. No.682(E) dated 5 th September 2022 (Environment (Protection) Act second Amendment Rules and Minutes of Task force meeting dated 27-08-2021 for categorization of power plants by CPCB, SEIL Project-2 need to install FGD by 31 st Dec 2026 so as to comply SO _x emission limit. EPC tender released currently and is in progress for installation of FGD.
xx	Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	Complying. Bag filters along with Cyclone Separators, Dust suppression and Dry fog Dust suppression systems installed to coal crusher unit. 




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




S No.	Condition	Compliance
xxiii	<p>Fly ash shall be collected in dry form and storage facility (silos) shall be provided. Unutilized fly ash shall be disposed-off in the ash pond in the form of high concentration slurry form. Mercury and other. Heavy metals (As, Hg, Cr, Pb etc.) will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.</p>	<p>Complying.</p> <p>Fly ash dry collection system is in place. Ash Water Recirculation system in operation and treated water is utilized for Coal Handling Plant dust suppression.</p>  <p>Monitoring of Heavy metals in the Bottom ash and ash pond effluents is being carried out on quarterly basis by third party agency. Reports attached as Annexure-VII & Annexure-VIII respectively.</p> <p>Piezometer Bore wells water level monitoring & analysis is carried out on Quarterly basis. Reports attached as Annexure- IX.</p> 

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xxiv	Ash pond shall be lined with HDP/LDP lining or any other suitable impermeable media such that no leachate takes place at any point of time. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.	<p>Complied.</p> 
xxv	For disposal of Bottom Ash (if proposed to be undertaken) in abandoned mines it shall be ensured that the bottom and sides of the mined out areas are adequately lined with clay before Bottom Ash is filled up. The project proponent shall inform the State Pollution Control Board well in advance before undertaking the activity.	As per the new MoEF&CC guidelines released F.No. 22-13/2019-IA.III dated 28 th Aug 2019 on “Change in conditions stipulated in the Environmental Clearances of Thermal Power Plants and Coal Mines in line with the Fly Ash Notification and subsequent amendment”, SEIL will take suitable measures to utilize bottom ash in accordance with above guidelines.
xxvi	Closed cycle cooling system shall be provided. The effluents shall be treated as per the prescribed norms. COC of at least 1.25 shall be adopted.	Complying.
xxvii	Green Belt consisting of 3 tiers of plantations of native species around plant and at least 100 m width shall be raised. Wherever 100 m width is not feasible a 50 m width shall be raised and adequate justification shall be submitted to the Ministry. Tree density shall not less than 2500 per ha with survival rate not less than 75 %.	<p>Complied.</p> <p>An area of 350 acres green belt / green cover developed adopting scientific methods like establishment of mist chamber, drip & sprinkler system, vermicompost production & application of bio pesticides.</p> <p>Peripheral planting along inside of the compound wall has been completed with 3 tiers of plantation.</p>



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S No.	Condition	Compliance
		



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S No.	Condition	Compliance
xxviii	A good action plan for R&R (if applicable) with package for the project affected persons be submitted and implemented as per prevalent R&R policy within three months form the date of issue of this letter.	Not Applicable
xxix	An amount of Rs.27.3 Crores shall be earmarked as one time capital cost for CSR programme. Subsequently a recurring expenditure of Rs.5.5 Crores per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within one month along with road map for implementation.	<p>Complying.</p> <p>CSR implementation reports are submitted along with six monthly reports.</p> <p><u>SEIL Project-2 (Formerly known as Sembcorp Energy India Limited) status:</u></p> <p>As part of the company's corporate social responsibility initiative, company pays considerable attention to upliftment of local community by providing Education, community health programmes, social infrastructure environment and other developmental initiatives. During FY2023-24, the company has spent an amount of INR 4.4 Cr and undertaken the following works:</p> <p>CSR Update from October 2023 to March 2024 attached as Annexure-I.</p>



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S No.	Condition	Compliance
xxx	<p>As part of CSR programme the company shall conduct need based assessment for the nearby villages to study economic measures with action plan which can help in upliftment of poor section of society.</p> <p>Income generating projects consistent with the traditional skills of the people besides development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such programme. Company shall provide separate budget for community development activities and income generating programmes. This will be in addition to vocational training for individuals imparted to take up self-employment and jobs.</p>	<p>Complying.</p> <p>SEIL Energy India Limited strategically focusing on Health, Education and Skill Development Training Programmes across the community.</p>
xxxi	<p>It shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time.</p>	<p>Complying.</p>




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xxxii	<p>Criteria pollutant levels including NO_x, RSPM, SO_x, (from stack and ambient air) shall be regularly monitored and results displayed in your website and also at the main gate of power plant.</p>	<p>Complying.</p> <p>Main gate display provided. Continuously displayed the stack emissions & ambient quality parameters.</p> <p>Company Website can be accessed by clicking on the below link.</p> <p>https://seilenergy.com/AboutUs/Disclosure</p> 
xxxiii	<p>A Corporate Environmental Policy shall be formulated and after due approval of the Board of Directors of the Company shall be submitted to the Ministry. The policy shall specifically address issues of adherence to environmental clearance conditions stipulated for the power project and others including matters related to violations (if any) to the Board.</p>	<p>Environmental Policy has been incorporated in the QHSE Policy.</p> <p>QHSE Policy Attached as Annexure-X.</p>




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





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 SPSR Nellore (Dist.), Andhra Pradesh.

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



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S No.	Condition	Compliance
v	Storage facilities for auxiliary liquid fuel such as LDO and / HFO /LSHS shall be made in the plant area in consultation with Department of Explosives, Nagpur. Sulphur content in the liquid fuel will not exceed 0.5%. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of	<p>Complying.</p> <p>Valid CCOE License attached as Annexure-XII.</p> <p>Emergency Response Plan has been prepared and widely communicated among work force.</p>
vi	Regular monitoring of ground water level has not been carried out by establishing a network of existing wells and constructing new piezometers. Monitoring of water quality around the ash pond area has not been carried out and records were not submitted to the Regional Office of the MoEF &CC (General condition no.vi).	<p>Complying.</p> <p>Existing bore well data is monitored through approved reputed environmental consultant. Piezo wells are constructed and in service around ash pond. Ground Water levels monitoring is being carried out on quarterly basis.</p> <p>Piezometer Bore wells analysis reports attached as Annexure- IX.</p>
vii	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	<p>Complied.</p>  



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S No.	Condition	Compliance
Viii	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dBA. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc. shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non-noisy/less noisy areas.	<p>Complying.</p> <p>Quarterly Noise monitoring studies are carried out through MoEF&CC approved laboratory.</p> <p>Reports attached as Annexure- XIII.</p>
ix	Regular monitoring of ground level concentration of SO ₂ , 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 frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.	<p>Complying.</p> <p>Ambient Air Quality Monitoring carried out by MoEF&CC approved Laboratory and Six-monthly reports submitted to APPCB.</p> <p>Reports attached as Annexure- XIV.</p>
x	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Complied during construction phase.




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S No.	Condition	Compliance
xi	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in .	Complied. Environment clearance letter has been put up on SEIL website @ https://seilenergy.com/AboutUs/Disclosure
xii	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad. / Municipal Corporation, urban local Body and the Local NOO, if any, from whom suggestions / representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Complied. Environment clearance letter has been put up on SEIL website @ https://seilenergy.com/AboutUs/Disclosure
xiii	A dedicated Environment management Cell with suitable qualified personnel constituting of Marine Biologist and an ecologist shall be set-up under the control of a Senior Executive who will report directly to the Head of the Organization.	Complying. SEIL has established an Environment Management Cell with suitable qualified personnel under the supervision of Head-HSE who directly reports to the Station Head.




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S No.	Condition	Compliance
xiv	<p>The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollution levels namely; SPM, RSPM, SO₂, 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.</p>	<p>Complying. EC Six monthly compliance reports are being submitted. (Ref: SEILP2/MoEF&CC/Chennai /2023/005 dated 27th November 2023) The reports are uploaded on SEIL website @ https://seilenergy.com/AboutUs/Disclosure</p> 
xv	<p>The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well by e- mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB.</p>	<p>Complying. EC Six monthly compliance reports are being submitted. (Ref: SEILP2/MoEF&CC/Chennai /2023/005 dated 27th November 2023) The reports are uploaded in SEIL website @ https://seilenergy.com/AboutUs/Disclosure</p>
xvi	<p>The environment statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.</p>	<p>Complying. (Environment Statement in Form-V submitted to APPCB vide letter No. SEIL P2/ APPCB/ BZA/2023/006 dated 28th September 2023).</p>



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S No.	Condition	Compliance
xvii	<p>The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same bye-mail to the Regional Office, Ministry of Environment and Forests.</p>	<p>Complied. EC Six Monthly Compliance Reports are being submitted. The reports are uploaded in SEIL website @ https://seilenergy.com/AboutUs/Disclosure</p>
xviii	<p>Regional Office of the Ministry of Environment & Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will up-load the compliance status in their website and up-date the same from time to time at least six monthly basis. Criteria pollutants levels including NOx (from stack & ambient air) shall be displayed at the main gate of the power plant.</p>	<p>Complied.</p>  <p>The reports were submitted to Ministry during project phase. EIA and EMP are already submitted.</p>



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S No.	Condition	Compliance
xix	Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These costs shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.	<p>Complying.</p> <p>Funds were spent for implementation of Environment protection measures during the project stage.</p> <p>However, continuous recurring cost for Environment management (EQMS, AAQM, CEMS, Hydro-geology studies & Environment Monitoring etc.) during operation is allocated in Annual budget.</p> <p>Expenditure details attached as Annexure-XV.</p>
xx	The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.	<p>Complied.</p> <p>Submitted Half Yearly Compliance reports including project progress photos and other details.</p>
xxi	Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry at Bangalore / CPCB / SPCB who would be monitoring the compliance of environmental status.	<p>Complying.</p>
4	The Ministry of Environment and Forests reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry. The Ministry may also impose additional environmental conditions or modify the existing ones, if necessary.	<p>Noted.</p>



M/s. SEIL Energy India Limited Project-2

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SPSR Nellore (Dist.), Andhra Pradesh.

S No.	Condition	Compliance
5.	The environmental clearance accorded shall be valid for a period of 5 years to start operations by the Power Plant.	Noted. The validity of EC is extended to 7 years as per MoEF&CC Notification Dtd. 29-04-2015 to start the operations. The 2x660 MW project has already commenced operations since 2016.
6.	Concealing factual data or submission of false /fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act 1986.	Noted.
7.	In case of any deviation or alteration in the project proposed including coal transportation system from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the condition(s) imposed to add additional environmental protection measures required, if any	Noted for compliance.
8.	The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the Public Liability Insurance Act, 1991 and its amendments.	Noted.
9.	Any appeal against this environmental clearance shall lie with the National Environmental Appellate Authority, if preferred, within 30 days as prescribed under Section 11 of National Environmental Appellate Act, 1997.	Noted.



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GREEN BELT/ GREEN COVER DEVELOPMENT IN SITE



M/s. SEIL Energy India Limited Project-2
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GREEN COVER AROUND PERIPHERY



M/s. SEIL Energy India Limited Project-2
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Ananthavaram & Varakavipudi (V), Thotapalli Gudur (M),
SPSR Nellore (Dist.), Andhra Pradesh.



GREEN COVER ALONG THE PLANT ROADS



M/s. SEIL Energy India Limited Project-2
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Ananthavaram & Varakavipudi (V), Thotapalli Gudur (M),
SPSR Nellore (Dist.), Andhra Pradesh.



GREEN COVER ALONG PIPE RACK & INTERNAL ROADS



GREEN COVER INSIDE THE PLANT



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GREEN COVER ALONG MAIN PLANT ROAD



AVENUE PLANTATION



M/s. SEIL Energy India Limited Project-2
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Ananthavaram & Varakavipudi (V), Thotapalli Gudur (M),
SPSR Nellore (Dist.), Andhra Pradesh.



GREEN COVER NEAR PLANT SERVICE BUILDING



GREEN COVER NEAR SERVICE BUILDING



M/s. SEIL Energy India Limited Project-2
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GREEN COVER IN NORTH EAST AREA



COAL YARD WATER SPRINKLING



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



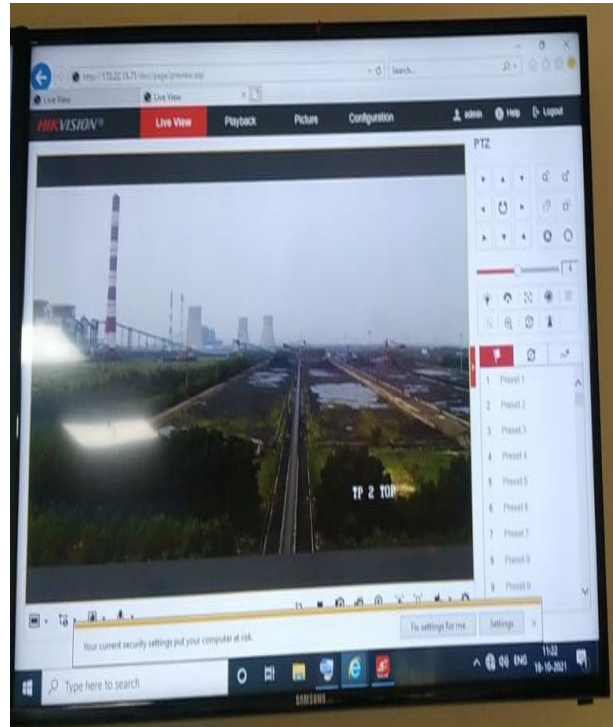
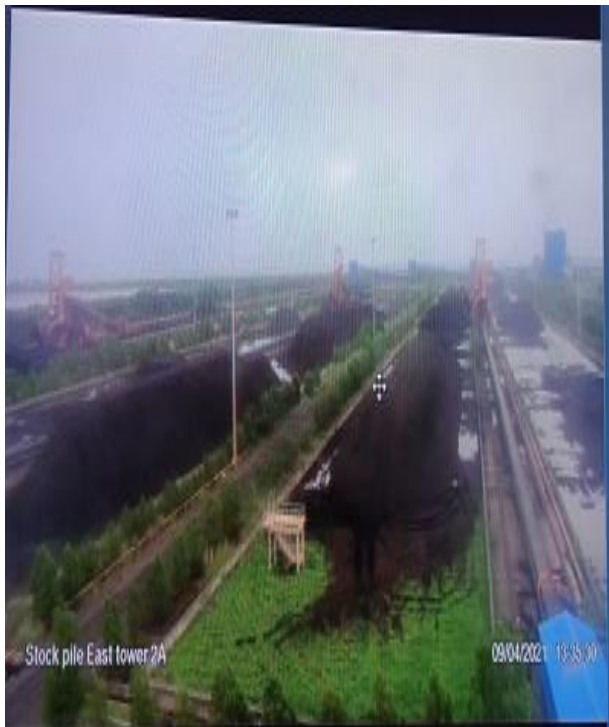
CONTINUOUS AMBIENT AIR QUALITY MONITORING STATION INSIDE THE PLANT



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



WIND BREAK PLANTATION AROUND COAL YARD



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



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SPSR Nellore (Dist.), Andhra Pradesh.



DUST EXTRACTION SYSTEM AT TRANSFER POINTS



MAIN GATE DISPLAY BOARD - AMBIENT AIR QUALITY, EMISSIONS & HAZ. WASTE DATA DISPLAY

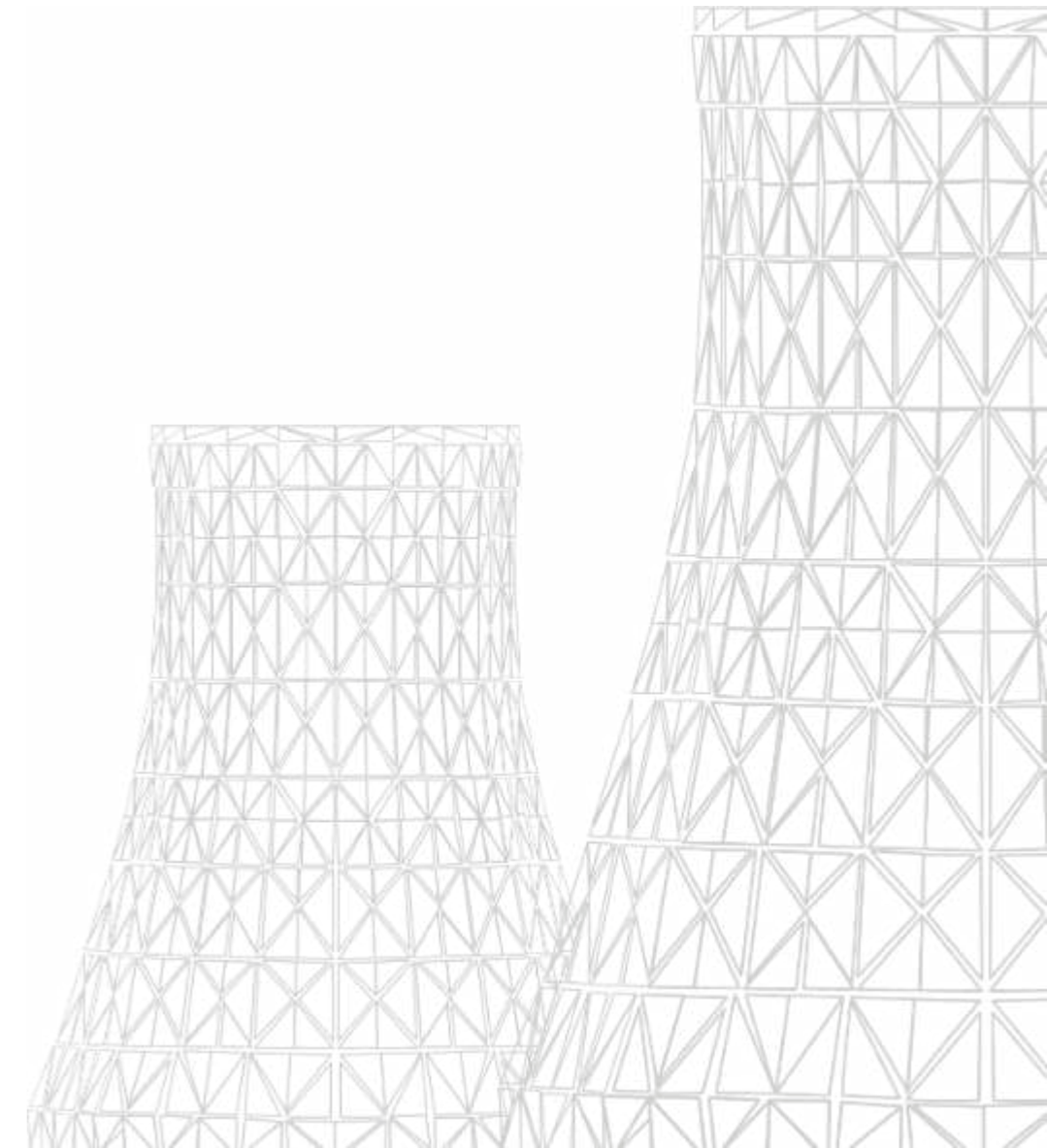




ANNEXURE-I

CSR Updates

HY-2 FY2023-24





HEALTH

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





Education

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



Inauguration of Renovated Buildings



Inauguration of Teachers Training programme.



Inauguration of Career Counseling programme

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



Renovation of Junior College Buildings at Podalakuru



Quality Education Intervention



Career Counseling Programme



CSR UPDATES – 4/5

For Q3 FY23-24



DECARBONISATION & OTHERS

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



Project Harith Phase-2



Inauguration of district social and media monitoring Cell



CSR Impact Award

GLIMPSES OF BOARD MEMBERS VISIT –(5/5)



MEETING WITH NGO PARTNERS



CERTIFICATE DISTRIBUTION TO TRAINEES AT SEDC



MOBILE MEDICAL UNIT



HEALTH AND WELLNESS CENTER



INAGURATION OF ULTRASOUND MACHINE AT IRCS



ON GRID SOLAR INSTALLATION AT IRCS





HEALTH

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





Education

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

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

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

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

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

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



Teachers training on LIP at DIET, Pallipadu



DEO, MEO and HM training on LIP at DIET



Base Line Assessment Process Monitoring

Quality Education Intervention



Learning Improvement Programme materials Distribution



Remedial classes

Transforming Preprimary Education



Plan India & SEIL Ltd NELLORE
Teaching Alphabets To Children
29.02.2024 10:47
14.34557, 80.13466
Latitude: 9.8m
Longitude: 80.13466, Pynampuram 524344



Plan India & SEIL Ltd NELLORE
Teaching Alphabets To Children
29.02.2024 10:39
14.34557, 80.13466
Latitude: -102m
Longitude: 80.13466, Pynampuram 524344

Career Counseling Programme



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



Project Harith Phase-2



**DECARBONISATION
&
OTHERS**

Thank You



SPECTRA ENVIROTECH PVT LTD

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

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

ANNEXURE-II

TEST REPORT

ISSUED TO: M/s. SEIL ENERGY INDIA LIMITED PROJECT-2 (2x660 MW Coal Based Thermal Power Plant), Near Ananthavaram(V), Thotapalli Gudur (M), SPSR Nellore (Dist.) -524344.	
Discipline: Chemical Group: Water Product: Marine Outfall Water Date of Sampling: 21.11.2023 Sample Collected By: Ganesh	Sample Registration Date: 22.11.2023 Analysis Starting Date: 22.11.2023 Analysis Completed Date: 29.11.2023 Issue Date: 30.11.2023 Lab Ref: SEPL/ES/SEILEILP/11-23/0001

TEST RESULT

S. NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1	pH	IS:3025(Part-11)1983	--	7.2	6.5-8.5
2	Temperature Intake	--	°C	27.6	Shall not exceed 5°C above the Receiving temperature
3	Temperature Out Fall	--	°C	30.1	
4	Electric Conductivity	IS: 3025:1964	µs/cm	23,274	--
5	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	18,568	--
6	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	52	100
7	Chemical Oxygen Demand	IS:3025(Part-58)-2006	mg/l	67	250
8	Biochemical Oxygen Demand (3 days at 27°C)	IS:3025(Part-44)-1993	mg/l	35	100
9	Oil & Grease	IS:3025(Part-39)-1991	mg/l	<1.0	10
10	Total Hardness as CaCO ₃	IS:3025(Part-21)-2012	mg/l	4,178	--
11	Total Alkalinity as CaCO ₃	IS:3025(Part-23)-2012	mg/l	733	--
12	P- Alkalinity as CaCO ₃	IS:3025(Part-13)-1964	mg/l	Nil	--
13	Turbidity	IS:3025(Part-10)-2012	NTU	3.8	--
14	Calcium as Ca	IS:3025(Part-40)-2012	mg/l	1,125	--
15	Magnesium as Mg	IS:3025(Part-46)-2012	mg/l	277	--
16	Sodium as Na	IS:3025(Part-45)1993	mg/l	563	--

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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





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S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
17	Potassium as K	IS:3025(Part-45)1993	mg/l	232	--
18	Chloride as Cl	IS:3025(Part-32)-2012	mg/l	7,567	--
19	Sulphates as SO ₄	IS:3025(Part-24)-2012	mg/l	637	--
20	Nitrates as NO ₃	IS:3025(Part-34)-2012	mg/l	25.4	--
21	Carbonates as CO ₃	IS:3025(Part-51)-2017	mg/l	Nil	--
22	Bio Carbonates as HCO ₃	IS:3025(Part-51)-2017	mg/l	424	--
23	Iron as Fe	IS:3025(Part-53)-2012	mg/l	3.7	--
24	Fluoride as F	IS:3025(Part-60)-2012	mg/l	1.2	--
25	Copper as Cu	IS:3025(Part-42)-2012	mg/l	0.65	--
26	Manganese as Mn	IS:3025(Part-59)-2012	mg/l	0.24	--
27	Phenolic Compounds as C ₆ H ₅ OH	IS:3025(Part-43)-2012	mg/l	<0.005	--
28	Cadmium as Cd	IS:3025(Part-41)-2012	mg/l	<0.005	2.0
29	Mercury as Hg	IS:3025(Part-48)-2012	mg/l	<0.001	0.01
30	Selenium as Se	IS:3025(Part-56)-2012	mg/l	<0.005	--
31	Arsenic as As	IS:3025(Part-37)-2012	mg/l	<0.01	0.2
32	Cyanide as CN	IS:3025(Part-27)-2012	mg/l	<0.01	--
33	Lead as Pb	IS:3025(Part-47)-2012	mg/l	<0.01	2.0
34	Zinc as Zn	IS:3025(Part-49)-2012	mg/l	0.44	--
35	Hexavalent Chromium as Cr ⁺⁶	IS:3025(Part-38)-1964	mg/l	<0.001	1.0
36	Boron as B	IS:3025(Part-57)-2012	mg/l	0.003	--
37	Silica as SiO ₂	IS:3025(Part-35)-2019	mg/l	32.6	--

Note: IS- Indian Standard

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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





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TEST REPORT

ISSUED TO: M/s. SEIL ENERGY INDIA LIMITED PROJECT-2 (2x660 MW Coal Based Thermal Power Plant), Near Ananthavaram(V), Thotapalli Gudur (M), SPSR Nellore (Dist.) -524344.	
Discipline: Chemical Group: Water Product: Marine Outfall Water (Fish Bio-Assay Test) Date of Sampling: 21.11.2023 Sample Collected By: Ganesh	Sample Registration Date: 22.11.2023 Analysis Starting Date: 22.11.2023 Analysis Completed Date: 29.11.2023 Issue Date: 30.11.2023 Lab Ref: SEPL/ES/SEILEILP/11-23/0002

TEST RESULT

TEST SPECIES	SOURCE OF ORGANISM	LENGTH & WEIGHT (For Fish)	REMARKS
Zebra Fish	Through vendors	1.Length 4.1 cm 2.Weight 3.0 gm	1.Fish were not fed <u>Yes</u> 2. Temperature range in aquarium 24°C

REFERENCE TEST DATA

START DATE: 29.11.2023 END DATE: 30.11.2023
COMMENTS:
The test species were undergone toxicity for about 96 Hrs. RESULT: 97% survival of fish was noticed

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

K.S.Laj
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Managing Director

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





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

TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-2

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

Discipline: Chemical

Group: Water

Product: Marine Outfall Water

Date of Sampling: 19.02.2024

Sample Collected By: Ganesh

Sample Registration Date: 20.02.2024

Analysis Starting Date: 20.02.2024

Analysis Completed Date: 26.02.2024

Issue Date: 27.02.2024

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

TEST RESULT

S. NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1	pH	IS:3025(Part-11)1983	--	7.5	6.5-8.5
2	Temperature Intake	--	°C	28.6	Shall not exceed 5°C above the Receiving temperature
3	Temperature Out Fall	--	°C	31.5	
4	Electric Conductivity	IS: 3025:1964	µs/cm	23,287	--
5	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	18,574	--
6	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	56	100
7	Chemical Oxygen Demand	IS:3025(Part-58)-2006	mg/l	71	250
8	Biochemical Oxygen Demand (3 days at 27°C)	IS:3025(Part-44)-1993	mg/l	39	100
9	Oil & Grease	IS:3025(Part-39)-1991	mg/l	<1.0	10
10	Total Hardness as CaCO ₃	IS:3025(Part-21)-2012	mg/l	4,185	--
11	Total Alkalinity as CaCO ₃	IS:3025(Part-23)-2012	mg/l	742	--
12	P- Alkalinity as CaCO ₃	IS:3025(Part-13)-1964	mg/l	Nil	--
13	Turbidity	IS:3025(Part-10)-2012	NTU	4.2	--
14	Calcium as Ca	IS:3025(Part-40)-2012	mg/l	1,132	--
15	Magnesium as Mg	IS:3025(Part-46)-2012	mg/l	285	--
16	Sodium as Na	IS:3025(Part-45)1993	mg/l	577	--

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S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
17	Potassium as K	IS:3025(Part-45)1993	mg/l	239	--
18	Chloride as Cl	IS:3025(Part-32)-2012	mg/l	7,574	--
19	Sulphates as SO ₄	IS:3025(Part-24)-2012	mg/l	642	--
20	Nitrates as NO ₃	IS:3025(Part-34)-2012	mg/l	26.3	--
21	Carbonates as CO ₃	IS:3025(Part-51)-2017	mg/l	Nil	--
22	Bio Carbonates as HCO ₃	IS:3025(Part-51)-2017	mg/l	432	--
23	Iron as Fe	IS:3025(Part-53)-2012	mg/l	3.9	--
24	Fluoride as F	IS:3025(Part-60)-2012	mg/l	1.5	--
25	Copper as Cu	IS:3025(Part-42)-2012	mg/l	0.74	--
26	Manganese as Mn	IS:3025(Part-59)-2012	mg/l	0.32	--
27	Phenolic Compounds as C ₆ H ₅ OH	IS:3025(Part-43)-2012	mg/l	<0.005	--
28	Cadmium as Cd	IS:3025(Part-41)-2012	mg/l	<0.005	2.0
29	Mercury as Hg	IS:3025(Part-48)-2012	mg/l	<0.001	0.01
30	Selenium as Se	IS:3025(Part-56)-2012	mg/l	<0.005	--
31	Arsenic as As	IS:3025(Part-37)-2012	mg/l	<0.01	0.2
32	Cyanide as CN	IS:3025(Part-27)-2012	mg/l	<0.01	--
33	Lead as Pb	IS:3025(Part-47)-2012	mg/l	<0.01	2.0
34	Zinc as Zn	IS:3025(Part-49)-2012	mg/l	0.52	--
35	Hexavalent Chromium as Cr ⁺⁶	IS:3025(Part-38)-1964	mg/l	<0.001	1.0
36	Boron as B	IS:3025(Part-57)-2012	mg/l	0.002	--
37	Silica as SiO ₂	IS:3025(Part-35)-2019	mg/l	34.6	--

Note: IS- Indian Standard

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TEST REPORT

ISSUED TO: M/s. SEIL ENERGY INDIA LIMITED PROJECT-2 (2x660 MW Coal Based Thermal Power Plant), Near Ananthavaram (V), Thotapalli Gudur (M), SPSR Nellore (Dist.) -524344.	
Discipline: Chemical Group: Water Product: Marine Outfall Water (Fish Bio-Assay Test) Date of Sampling: 19.02.2024 Sample Collected By: Ganesh	Sample Registration Date: 20.02.2024 Analysis Starting Date: 20.02.2024 Analysis Completed Date: 26.02.2024 Issue Date: 27.02.2024 Lab Ref: SEPL/ES/SEILEILP/02-24/0002

TEST RESULT

TEST SPECIES	SOURCE OF ORGANISM	LENGTH & WEIGHT (For Fish)	REMARKS
Zebra Fish	Through vendors	1.Length 4.0 cm 2.Weight 3.7 gm	1.Fish were not fed <u>Yes</u> 2. Temperature range in aquarium 26°C

REFERENCE TEST DATA

START DATE: 26.02.2024 END DATE: 27.02.2024
COMMENTS:
The test species were undergone toxicity for about 96 Hrs. RESULT: 98%survival of fish was noticed

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

K.S.Laj
Verified by



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

ANNEXURE-III

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-2

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

Discipline: Chemical

Group: Water

Product: ETP OUTLET (Treated Effluent)

Date of Monitoring: 21.11.2023

Sample Collected By: Ganesh

Sample Registration Date: 22.11.2023

Analysis Starting Date: 22.11.2023

Analysis Completed Date: 29.11.2023

Issue Date: 30.11.2023

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

TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARD
1.	pH	IS:3025(Part-11)1983	--	7.1	5.5-9.0
2.	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	266	2100
3.	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	44	200
4.	Chemical Oxygen Demand	IS:3025(Part-58)-1986	mg/l	53	250
5.	Biochemical Oxygen Demand (5 days at 20°C)	IS:3025(Part-44)-1993	mg/l	27	100
6.	Oil & Grease	IS:3025(Part-39)-1991	mg/l	<1.0	10

Note: IS- Indian Standard

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

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TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-2

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

Discipline: Chemical

Group: Water

Product: ETP OUTLET (Treated Effluent)

Date of Monitoring: 19.02.2024

Sample Collected By: Ganesh

Sample Registration Date: 20.02.2024

Analysis Starting Date: 20.02.2024

Analysis Completed Date: 26.02.2024

Issue Date: 27.02.2024

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

TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARD
1.	pH	IS:3025(Part-11)1983	--	7.5	5.5-9.0
2.	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	274	2100
3.	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	51	200
4.	Chemical Oxygen Demand	IS:3025(Part-58)-1986	mg/l	34	250
5.	Biochemical Oxygen Demand (5 days at 20°C)	IS:3025(Part-44)-1993	mg/l	26	100
6.	Oil & Grease	IS:3025(Part-39)-1991	mg/l	<1.0	10

Note: IS- Indian Standard

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ANNEXURE-IV

TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Water

Product: STP OUTLET

Date of Monitoring: 21.11.2023

Sample Collected By: Ganesh

Sample Registration Date: 22.11.2023

Analysis Starting Date: 22.11.2023

Analysis Completed Date: 29.11.2023

Issue Date: 30.11.2023

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

TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARD
1.	pH	IS:3025(Part-11)1983	--	7.3	5.5-9.0
2.	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	168	<2100
3.	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	35	<200
4.	Chemical Oxygen Demand	IS:3025(Part-58)-1986	mg/l	63	<250
5.	Biochemical Oxygen Demand (5 days at 20°C)	IS:3025(Part-44)-1993	mg/l	24	<100
6.	Oil & Grease	IS:3025(Part-39)-1991	mg/l	<1.0	<10

Note: IS-Indian Standard

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

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TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Water

Product: STP OUTLET

Date of Monitoring: 19.02.2024

Sample Collected By: Ganesh

Sample Registration Date: 20.02.2024

Analysis Starting Date: 20.02.2024

Analysis Completed Date: 26.02.2024

Issue Date: 27.02.2024

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

TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARD
1.	pH	IS:3025(Part-11)1983	--	7.6	5.5-9.0
2.	Total Dissolved Solids	IS:3025(Part-15)1984	mg/l	174	<2100
3.	Total Suspended Solids	IS:3025(Part-15)1984	mg/l	39	<200
4.	Chemical Oxygen Demand	IS:3025(Part-58)-1986	mg/l	67	<250
5.	Biochemical Oxygen Demand (5 days at 20°C)	IS:3025(Part-44)-1993	mg/l	28	<100
6.	Oil & Grease	IS:3025(Part-39)-1991	mg/l	<1.0	<10
7.	Free Residual Chlorine	APHA 23 rd Edition, 2017:4500 Cl-B	mg/l	0.2	<0.5
8.	Fecal Coliforms per 100 ml	IS:1622:1981	MPN/ 100 ml	Absent	Absent/ 100ml

Note: IS-Indian Standard

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ANNEXURE-V

TEST REPORT

ISSUED TO:

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

Group: Atmospheric Pollution

Product: Stack Emission Monitoring- November 2023

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

Date of Monitoring: 21.11.2023

Sample Registration Date: 22.11.2023

Analysis Starting Date: 22.11.2023

Analysis Completed Date: 29.11.2023

Issue Date: 30.11.2023

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

TEST RESULT

1. Time of Sampling ---- : 10:20 Hrs. to 11:20 Hrs.
2. Time Duration : 00:60 Hrs.
3. Ambient Temperature (°C) : 35.6
4. Flue gas Temperature (°C) : 147
5. Velocity of the flue gas (m/sec) : 24.64
6. C/s area of the duct (m³) : 44.17
7. Stack Diameter (m) : 7.5
8. Flue gas Flow Rate (Nm³/hr) : 665280

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1.	Particulate Matter (PM)	IS 11255 (part-1)1985	mg/Nm ³	<50	38.6
2.	Sulphur Dioxide (SO ₂)	IS 11255 (part-2)1985	mg/Nm ³	-	652
3.	Oxides of Nitrogen (NO _x)	IS 11255 (part-7)1985	mg/Nm ³	350	241
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 : 28.02.2024

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

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TEST REPORT

ISSUED TO:

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

Group: Atmospheric Pollution

Product: Stack Emission Monitoring- November 2023

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

Date of Monitoring: 21.11.2023

Sample Registration Date: 22.11.2023

Analysis Starting Date: 22.11.2023

Analysis Completed Date: 29.11.2023

Issue Date: 30.11.2023

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

TEST RESULT

1. Time of Sampling ---- : 11:30 Hrs. to 12:25 Hrs.
2. Time Duration : 00:55 Hrs.
3. Ambient Temperature (°C) : 33.1
4. Flue gas Temperature (°C) : 144
5. Velocity of the flue gas (m/sec) : 24.36
6. C/s area of the duct (m³) : 44.17
7. Stack Diameter (m) : 7.5
8. Flue gas Flow Rate (Nm³/hr) : 657720

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1.	Particulate Matter (PM)	IS 11255 (part-1)1985	mg/Nm ³	<50	28.4
2.	Sulphur Dioxide (SO ₂)	IS 11255 (part-2)1985	mg/Nm ³	-	663
3.	Oxides of Nitrogen (NO _x)	IS 11255 (part-7)1985	mg/Nm ³	350	236
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 : 28.02.2024

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TEST REPORT

ISSUED TO:

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

Group: Atmospheric Pollution

Product: Stack Emission Monitoring- February 2024

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

Date of Monitoring: 19.02.2024

Sample Registration Date: 20.02.2024

Analysis Starting Date: 20.02.2024

Analysis Completed Date: 26.02.2024

Issue Date: 27.02.2024

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

TEST RESULT

1. Time of Sampling ---- : 10:20 Hrs. to 11:20 Hrs.
2. Time Duration : 00:60 Hrs.
3. Ambient Temperature (°C) : 36.3
4. Flue gas Temperature (°C) : 149
5. Velocity of the flue gas (m/sec) : 24.72
6. C/s area of the duct (m³) : 44.17
7. Stack Diameter (m) : 7.5
8. Flue gas Flow Rate (Nm³/hr) : 393077

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1.	Particulate Matter (PM)	IS 11255 (part-1)1985	mg/Nm ³	< 50	42.1
2.	Sulphur Dioxide (SO ₂)	IS 11255 (part-2)1985	mg/Nm ³	-	663
3.	Oxides of Nitrogen (NO _x)	IS 11255 (part-7)1985	mg/Nm ³	350	252
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 : 28.02.2025

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TEST REPORT

ISSUED TO:

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

Group: Atmospheric Pollution

Product: Stack Emission Monitoring- February 2024

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

Date of Monitoring: 19.02.2024

Sample Registration Date: 20.02.2024

Analysis Starting Date: 20.02.2024

Analysis Completed Date: 26.02.2024

Issue Date: 27.02.2024

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

TEST RESULT

1. Time of Sampling ---- : 11:35 Hrs. to 12:30 Hrs.
2. Time Duration : 00:55 Hrs.
3. Ambient Temperature (°C) : 34.3
4. Flue gas Temperature (°C) : 147
5. Velocity of the flue gas (m/sec) : 24.48
6. C/s area of the duct (m³) : 44.17
7. Stack Diameter (m) : 7.5
8. Flue gas Flow Rate (Nm³/hr) : 389261

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	STANDARDS	RESULTS
1.	Particulate Matter (PM)	IS 11255 (part-1)1985	mg/Nm ³	< 50	31.2
2.	Sulphur Dioxide (SO ₂)	IS 11255 (part-2)1985	mg/Nm ³	-	674
3.	Oxides of Nitrogen (NO _x)	IS 11255 (part-7)1985	mg/Nm ³	350	285
4.	Carbon Monoxide (CO)	NSPS Test Method-10	ppm	-	1.9
5.	Mercury as Hg	State of California Air Resources Board, Method10A	mg/Nm ³	0.03	<0.01

Instrument Details:

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

K.S.Laj
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ANNEXURE-VI

TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-2

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

Discipline: Chemical

Group: Water

Product: Heavy Metal Analysis of Coal- November 2023

Sample Location: Coal Feeder#2

Date of Monitoring: 21.11.2023

Sample Collected By: Ganesh

Sample Registration Date: 22.11.2023

Analysis Starting Date: 22.11.2023

Analysis Completed Date: 29.11.2023

Issue Date: 30.11.2023

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

TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	ppm	0.26	5.0
2	Mercury as Hg	USEPA-3050B Dec-1996(Rev.2)	ppm	<0.02	0.2
3	Chromium as Cr	USEPA-3050B Dec-1996(Rev.2)	ppm	1.34	5.0
4	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	ppm	0.21	5.0

Note: USEPA- United States Environmental Protection Agency

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TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-2

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

Discipline: Chemical

Group: Water

Product: Heavy Metal Analysis of Coal- February 2024

Sample Location: Coal Feeder#1

Date of Monitoring: 19.02.2024

Sample Collected By: Ganesh

Sample Registration Date: 20.02.2024

Analysis Starting Date: 20.02.2024

Analysis Completed Date: 26.02.2024

Issue Date: 27.02.2024

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

TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	ppm	0.35	5.0
2	Mercury as Hg	USEPA-3050B Dec-1996(Rev.2)	ppm	<0.02	0.2
3	Chromium as Cr	USEPA-3050B Dec-1996(Rev.2)	ppm	1.40	5.0
4	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	ppm	0.27	5.0

Note: USEPA- United States Environmental Protection Agency

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ANNEXURE-VII

TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-2

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

Discipline: Chemical

Group: Water

Product: Heavy Metal Analysis of Fly Ash- November 2023

Date of Monitoring: 21.11.2023

Sample Collected By: Ganesh

Sample Registration Date: 22.11.2023

Analysis Starting Date: 22.11.2023

Analysis Completed Date: 29.11.2023

Issue Date: 30.11.2023

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

TEST RESULT

S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	PPM	0.38	5.0
2	Mercury as Hg	USEPA-3050B Dec-1996(Rev.2)	PPM	<0.05	0.2
3	Chromium as Cr	USEPA-3050B Dec-1996(Rev.2)	PPM	0.42	5.0
4	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	PPM	0.54	5.0

Note: USEPA- United States Environmental Protection Agency

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TEST REPORT

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(2x660 MW Coal Based Thermal Power Plant),

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

SPSR Nellore (Dist.) -524344.

Discipline: Chemical

Group: Water

Product: Heavy Metal Analysis of Bottom Ash- November 2023

Date of Monitoring: 21.11.2023

Sample Collected By: Ganesh

Sample Registration Date: 22.11.2023

Analysis Starting Date: 22.11.2023

Analysis Completed Date: 29.11.2023

Issue Date: 30.11.2023

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

TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1.	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	PPM	0.40	5.0
2.	Mercury as Hg	USEPA-3050B Dec-1996(Rev.2)	PPM	<0.02	0.2
3.	Chromium as Cr	USEPA-3050B Dec-1996(Rev.2)	PPM	0.28	5.0
4.	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	PPM	0.49	5.0

Note: USEPA- United States Environmental Protection Agency

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TEST REPORT

ISSUED TO: M/s. SEIL ENERGY INDIA LIMITED PROJECT-2 (2x660 MW Coal Based Thermal Power Plant), Near Ananthavaram (V), Thotapalli Gudur (M), SPSR Nellore (Dist.) -524344.	
Discipline: Chemical Group: Water Product: Heavy Metal Analysis of Fly Ash- February 2024 Date of Monitoring: 19.02.2024 Sample Collected By: Ganesh	Sample Registration Date: 20.02.2024 Analysis Starting Date: 20.02.2024 Analysis Completed Date: 26.02.2024 Issue Date: 27.02.2024 Lab Ref: SEPL/ES/SEILEILP/02-24/0001

TEST RESULT

S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	PPM	0.42	5.0
2	Mercury as Hg	USEPA-3050B Dec-1996(Rev.2)	PPM	<0.05	0.2
3	Chromium as Cr	USEPA-3050B Dec-1996(Rev.2)	PPM	0.59	5.0
4	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	PPM	0.63	5.0

Note: USEPA- United States Environmental Protection Agency

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TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Water

Product: Heavy Metal Analysis of Bottom Ash- February 2024

Date of Monitoring: 19.02.2024

Sample Collected By: Ganesh

Sample Registration Date: 20.02.2024

Analysis Starting Date: 20.02.2024

Analysis Completed Date: 26.02.2024

Issue Date: 27.02.2024

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

TEST RESULT

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	STANDARDS
1.	Arsenic as As	USEPA-3050B Dec-1996(Rev.2)	PPM	0.42	5.0
2.	Mercury as Hg	USEPA-3050B Dec-1996(Rev.2)	PPM	<0.02	0.2
3.	Chromium as Cr	USEPA-3050B Dec-1996(Rev.2)	PPM	0.33	5.0
4.	Lead as Pb	USEPA-3050B Dec-1996(Rev.2)	PPM	0.65	5.0

USEPA- United States Environmental Protection Agency

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TEST REPORT

ANNEXURE-VIII

ISSUED TO:

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

Discipline: Chemical

Group: Wastewater

Sample Location: **Ash Pond Effluent Water**

Date of Monitoring: 21.11.2023

Sample Collected By: Ganesh

Sample Registration Date: 22.11.2023

Analysis Starting Date: 28.11.2023

Analysis Completed Date: 29.11.2023

Issue Date: 30.11.2023

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

TEST RESULT

S.NO	TEST PARAMETERS	UNIT	TEST METHOD	RESULT	STANDARD
1.	pH	---	IS:3025(Part-11)1983	7.9	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	42	100
5.	Chemical Oxygen Demand (COD)	mg/l	IS:3025(Part-58)-2006	65	250
6.	Biochemical Oxygen Demand (BOD) (3 days at 27 °C)	mg/l	IS:3025(Part-44)-1993	22	100
7.	Oil & Grease	mg/l	IS:3025(Part-39)-1991	1.7	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

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

Discipline: Chemical

Group: Wastewater

Sample Location: **Ash Pond Effluent Water**

Date of Monitoring: 19.02.2024

Sample Collected By: Ganesh

Sample Registration Date: **20.02.2024**

Analysis Starting Date: **20.02.2024**

Analysis Completed Date: **26.02.2024**

Issue Date: **26.02.2024**

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

TEST RESULT

S.NO	TEST PARAMETERS	UNIT	TEST METHOD	RESULT	STANDARD
1.	pH	---	IS:3025(Part-11)1983	7.7	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	23	100
5.	Chemical Oxygen Demand (COD)	mg/l	IS:3025(Part-58)-2006	72	250
6.	Biochemical Oxygen Demand (BOD) (3 days at 27 °C)	mg/l	IS:3025(Part-44)-1993	59	100
7.	Oil & Grease	mg/l	IS:3025(Part-39)-1991	3.5	10
8.	Total Arsenic as As	mg/l	IS:3025(Part-37)-1988	<0.01	0.2
9.	Mercury as Hg	mg/l	IS:3025(Part-48)-1994	<0.001	0.01
10.	Lead as Pb	mg/l	IS:3025(Part-47)-1994	<0.01	2.0
11.	Cadmium as Cd	mg/l	IS:3025(Part-41)-1992	<0.001	2.0
12.	Hexavalent Chromium as Cr ⁶⁺	mg/l	IS:3025(Part-52)-2003	<0.001	1.0

IS-Indian Standard

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TEST REPORT

ANNEXURE-IX

ISSUED TO:

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

Discipline: Chemical

Group: Water

Product Water

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

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

Date of Monitoring: 21.11.2023

Sample Registration Date: 22.11.2023

Analysis Starting Date: 22.11.2023

Analysis Completed Date: 29.11.2023

Issue Date: 30.11.2023

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

Sample Collected By: Ganesh

TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				PW-1	PW-2	ACCEPTABLE	PERMISSIBLE
1	pH	--	IS3025(P-11)2021	7.6	7.2	6.5- 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.1	1.0	1.0	5.0
3	Turbidity	NTU	IS3025(P-10)1984	0.1	0.4	1.0	5.0
4	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,163	1,152	--	--
5	Temperature	°C	--	31.2	28.4	--	--
6	Total Suspended Solids	mg/l	IS3025(P-17)1984	37	46	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	538	524	500	2000
8	Total Hardness as CaCO ₃	mg/l	IS3025(P-23)1986	187	193	200	600
9	Total Alkalinity as CaCO ₃	mg/l	IS3025(P-23)1986	163	176	200	600
10	Calcium as Ca	mg/l	IS3025(P-40)1991	48.2	44.7	75	200
11	Magnesium as Mg	mg/l	IS3025(P-40)1991	24.8	19.4	30	100
12	Free Residual Chlorine	mg/l	IS3025(P-26)1986	<0.1	<0.1	0.2	No Relaxation
13	Boron as B	mg/l	IS3025(P-57)2021	<0.1	<0.1	0.5	1.0
14	Calcium Hardness as CaCO ₃	mg/l	IS3025(P-40)1991	147	155	--	--
15	Magnesium Hardness as CaCO ₃	mg/l	IS3025(P-40)1991	98	129	--	--
16	Sodium as Na	mg/l	IS3025(P-45)1993	127	136	--	--
17	Potassium as K	mg/l	IS3025(P-45)1993	12	18	--	--
18	Chloride as Cl	mg/l	IS3025(P-32)1988	168	174	250	1000

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S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				PW-1	PW-2	ACCEPTABLE	PERMISSIBLE
19	Sulphates as SO ₄	mg/l	IS3025(P-24)1986	68.9	74.6	200	400
20	Nitrates as NO ₃	mg/l	IS3025(P-34)1988	14.3	22.4	45	No Relaxation
21	Chemical Oxygen Demand	mg/l	IS3025(P-58)2006	<5.0	<5.0	--	--
22	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	IS3025(P-44)1993	<3.0	<3.0	--	--
23	Iron as Fe	mg/l	IS3025(P-53)2003	0.06	0.04	<0.3	No Relaxation
24	Fluoride as F	mg/l	IS3025(P-60)2008	0.64	0.53	<1.0	<1.5
25	Copper as Cu	mg/l	IS3025(P-42)1992	<0.01	<0.01	<0.05	<1.5
26	Manganese as Mn	mg/l	IS3025(P-59)2006	<0.1	<0.1	<0.1	<0.3
27	Phenolic Compounds as C ₆ H ₅ OH	mg/l	IS3025(P-43)1992	<0.001	<0.001	<0.001	<0.002
28	Cadmium as Cd	mg/l	IS3025(P-41)1992	<0.001	<0.001	<0.003	No Relaxation
29	Mercury as Hg	mg/l	IS3025(P-48)1994	<0.001	<0.001	<0.001	No Relaxation
30	Selenium as Se	mg/l	IS3025(P-56)2003	<0.01	<0.01	<0.01	No Relaxation
31	Total Arsenic as As	mg/l	IS3025(P-37)1988	<0.01	<0.01	<0.01	<0.20
32	Cyanide as CN	mg/l	IS3025(P-27)1986	<0.01	<0.01	<0.05	No Relaxation
33	Lead as Pb	mg/l	IS3025(P-47)1994	<0.01	<0.01	<0.01	No Relaxation
34	Zinc as Zn	mg/l	IS3025(P-49)1994	<0.01	<0.01	<5.0	<15
35	Total Chromium as Cr ⁺⁶	mg/l	IS3025(P-52)2003	<0.01	<0.01	<0.05	<1.0
36	Aluminium as Al	mg/l	IS3025(P-55)2003	<0.01	<0.01	0.5	1.0
37	Pesticides	mg/l	As per STP	<0.01	<0.01	--	No Relaxation
38	Dissolved Oxygen	mg/l	IS3025(P-38)1989	5.5	5.9	--	--
39	Oil & Grease	mg/l	IS3025(P-39)2021	<1.0	<1.0	--	--
40	Phosphates as PO ₄	mg/l	IS3025(P-31)1998	<0.01	<0.01	--	--
41	Percent Sodium	%	IS3025(P-45)1993	22.7	27.6	--	--
42	E-Coli	Per/100ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml
43	Total Coliforms	Per/100ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml
44	Fecal Coliforms	MPN/100ml	IS-1622-1981	Absent	Absent	--	--

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TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Water

Product Water

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

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

Date of Monitoring: 21.11.2023

Sample Registration Date: 22.11.2023

Analysis Starting Date: 22.11.2023

Analysis Completed Date: 29.11.2023

Issue Date: 30.11.2023

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

Sample Collected By: Ganesh

TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				PW-3	PW-4	ACCEPTABLE	PERMISSIBLE
1	pH	--	IS3025(P-11)2021	7.2	7.9	6.5- 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.0	1.0	1.0	5.0
3	Turbidity	NTU	IS3025(P-10)1984	0.3	0.2	1.0	5.0
4	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,346	1,367	--	--
5	Temperature	°C	--	34.6	22.4	--	--
6	Total Suspended Solids	mg/l	IS3025(P-17)1984	47	34	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	573	477	500	2000
8	Total Hardness as CaCO ₃	mg/l	IS3025(P-23)1986	234	259	200	600
9	Total Alkalinity as CaCO ₃	mg/l	IS3025(P-23)1986	156	227	200	600
10	Calcium as Ca	mg/l	IS3025(P-40)1991	48	55	75	200
11	Magnesium as Mg	mg/l	IS3025(P-40)1991	32	47	30	100
12	Free Residual Chlorine	mg/l	IS3025(P-26)1986	<0.1	<0.1	0.2	No Relaxation
13	Boron as B	mg/l	IS3025(P-57)2021	<0.1	<0.1	0.5	1.0
14	Calcium Hardness as CaCO ₃	mg/l	IS3025(P-40)1991	157	146	--	--
15	Magnesium Hardness as CaCO ₃	mg/l	IS3025(P-40)1991	128	117	--	--
16	Sodium as Na	mg/l	IS3025(P-45)1993	127	136	--	--
17	Potassium as K	mg/l	IS3025(P-45)1993	36	57	--	--
18	Chloride as Cl	mg/l	IS3025(P-32)1988	152	155	250	1000

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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

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				PW-3	PW-4	ACCEPTABLE	PERMISSIBLE
19	Sulphates as SO ₄	mg/l	IS3025(P-24)1986	56.9	67.5	200	400
20	Nitrates as NO ₃	mg/l	IS3025(P-34)1988	22.6	34.4	45	No Relaxation
21	Chemical Oxygen Demand	mg/l	IS3025(P-58)2006	<5.0	<5.0	--	--
22	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	IS3025(P-44)1993	<3.0	<3.0	--	--
23	Iron as Fe	mg/l	IS3025(P-53)2003	0.17	0.14	<0.3	No Relaxation
24	Fluoride as F	mg/l	IS3025(P-60)2008	0.71	0.63	<1.0	<1.5
25	Copper as Cu	mg/l	IS3025(P-42)1992	<0.01	<0.01	<0.05	<1.5
26	Manganese as Mn	mg/l	IS3025(P-59)2006	<0.1	<0.1	<0.1	<0.3
27	Phenolic Compounds as C ₆ H ₅ OH	mg/l	IS3025(P-43)1992	<0.001	<0.001	<0.001	<0.002
28	Cadmium as Cd	mg/l	IS3025(P-41)1992	<0.001	<0.001	<0.003	No Relaxation
29	Mercury as Hg	mg/l	IS3025(P-48)1994	<0.001	<0.001	<0.001	No Relaxation
30	Selenium as Se	mg/l	IS3025(P-56)2003	<0.01	<0.01	<0.01	No Relaxation
31	Total Arsenic as As	mg/l	IS3025(P-37)1988	<0.01	<0.01	<0.01	<0.20
32	Cyanide as CN	mg/l	IS3025(P-27)1986	<0.01	<0.01	<0.05	No Relaxation
33	Lead as Pb	mg/l	IS3025(P-47)1994	<0.01	<0.01	<0.01	No Relaxation
34	Zinc as Zn	mg/l	IS3025(P-49)1994	<0.01	<0.01	<5.0	<15
35	Total Chromium as Cr ⁺⁶	mg/l	IS3025(P-52)2003	<0.01	<0.01	<0.05	<1.0
36	Aluminium as Al	mg/l	IS3025(P-55)2003	<0.01	<0.01	0.5	1.0
37	Pesticides	mg/l	As per STP	<0.01	<0.01	--	No Relaxation
38	Dissolved Oxygen	mg/l	IS3025(P-38)1989	5.9	4.5	--	--
39	Oil & Grease	mg/l	IS3025(P-39)2021	<1.0	<1.0	--	--
40	Phosphates as PO ₄	mg/l	IS3025(P-31)1998	<0.01	<0.01	--	--
41	Percent Sodium	%	IS3025(P-45)1993	26.8	28.1	--	--
42	E-Coli	Per/100ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml
43	Total Coliforms	Per/100ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml
44	Fecal Coliforms	MPN/100ml	IS-1622-1981	Absent	Absent	--	--

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TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Water

Product Water

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

Date of Monitoring: 21.11.2023

Sample Registration Date: 22.11.2023

Analysis Starting Date: 22.11.2023

Analysis Completed Date: 29.11.2023

Issue Date: 30.11.2023

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

Sample Collected By: Ganesh

TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS	STANDARDS AS PER IS:10500	
				PW-5	ACCEPTABLE	PERMISSIBLE
1	pH	--	IS3025(P-11)2021	7.4	6.5- 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.0	1.0	5.0
3	Turbidity	NTU	IS3025(P-10)1984	0.4	1.0	5.0
4	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,443	--	--
5	Temperature	°C	--	35.2	--	--
6	Total Suspended Solids	mg/l	IS3025(P-17)1984	57	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	665	500	2000
8	Total Hardness as CaCO ₃	mg/l	IS3025(P-23)1986	242	200	600
9	Total Alkalinity as CaCO ₃	mg/l	IS3025(P-23)1986	239	200	600
10	Calcium as Ca	mg/l	IS3025(P-40)1991	47	75	200
11	Magnesium as Mg	mg/l	IS3025(P-40)1991	59	30	100
12	Free Residual Chlorine	mg/l	IS3025(P-26)1986	<0.1	0.2	No Relaxation
13	Boron as B	mg/l	IS3025(P-57)2021	<0.1	0.5	1.0
14	Calcium Hardness as CaCO ₃	mg/l	IS3025(P-40)1991	134	--	--
15	Magnesium Hardness as CaCO ₃	mg/l	IS3025(P-40)1991	114	--	--
16	Sodium as Na	mg/l	IS3025(P-45)1993	127	--	--
17	Potassium as K	mg/l	IS3025(P-45)1993	63	--	--
18	Chloride as Cl	mg/l	IS3025(P-32)1988	174	250	1000

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S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS	STANDARDS AS PER IS:10500	
				PW-5	ACCEPTABLE	PERMISSIBLE
19	Sulphates as SO ₄	mg/l	IS3025(P-24)1986	52.1	200	400
20	Nitrates as NO ₃	mg/l	IS3025(P-34)1988	31.8	45	No Relaxation
21	Chemical Oxygen Demand	mg/l	IS3025(P-58)2006	<5.0	--	--
22	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	IS3025(P-44)1993	<3.0	--	--
23	Iron as Fe	mg/l	IS3025(P-53)2003	0.19	<0.3	No Relaxation
24	Fluoride as F	mg/l	IS3025(P-60)2008	0.46	<1.0	<1.5
25	Copper as Cu	mg/l	IS3025(P-42)1992	<0.01	<0.05	<1.5
26	Manganese as Mn	mg/l	IS3025(P-59)2006	<0.1	<0.1	<0.3
27	Phenolic Compounds as C ₆ H ₅ OH	mg/l	IS3025(P-43)1992	<0.001	<0.001	<0.002
28	Cadmium as Cd	mg/l	IS3025(P-41)1992	<0.001	<0.003	No Relaxation
29	Mercury as Hg	mg/l	IS3025(P-48)1994	<0.001	<0.001	No Relaxation
30	Selenium as Se	mg/l	IS3025(P-56)2003	<0.01	<0.01	No Relaxation
31	Total Arsenic as As	mg/l	IS3025(P-37)1988	<0.01	<0.01	<0.20
32	Cyanide as CN	mg/l	IS3025(P-27)1986	<0.01	<0.05	No Relaxation
33	Lead as Pb	mg/l	IS3025(P-47)1994	<0.01	<0.01	No Relaxation
34	Zinc as Zn	mg/l	IS3025(P-49)1994	<0.01	<5.0	<15
35	Total Chromium as Cr ⁺⁶	mg/l	IS3025(P-52)2003	<0.01	<0.05	<1.0
36	Aluminium as Al	mg/l	IS3025(P-55)2003	<0.01	0.5	1.0
37	Pesticides	mg/l	As per STP	<0.01	--	No Relaxation
38	Dissolved Oxygen	mg/l	IS3025(P-38)1989	4.6	--	--
39	Oil & Grease	mg/l	IS3025(P-39)2021	<1.0	--	--
40	Phosphates as PO ₄	mg/l	IS3025(P-31)1998	<0.01	--	--
41	Percent Sodium	%	IS3025(P-45)1993	27.4	--	--
42	E-Coli	Per/100ml	ISO 9308-1	Absent	Absent/100 ml	Absent/100 ml
43	Total Coliforms	Per/100ml	ISO 9308-1	Absent	Absent/100 ml	Absent/100 ml
44	Fecal Coliforms	MPN/100ml	IS-1622-1981	Absent	--	--

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TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Water

Product Water

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

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

Date of Monitoring: 19.02.2024

Sample Registration Date: 20.02.2024

Analysis Starting Date: 20.02.2024

Analysis Completed Date: 26.02.2024

Issue Date: 27.02.2024

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

Sample Collected By: Ganesh

TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				PW-1	PW-2	ACCEPTABLE	PERMISSIBLE
1	pH	--	IS3025(P-11)2021	7.9	7.5	6.5 - 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.0	1.1	1.0	5.0
3	Turbidity	NTU	IS3025(P-10)1984	0.3	0.6	1.0	5.0
4	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,174	1,163	--	--
5	Temperature	°C	--	33.6	29.6	--	--
6	Total Suspended Solids	mg/l	IS3025(P-17)1984	39	44	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	541	535	500	2000
8	Total Hardness as CaCO ₃	mg/l	IS3025(P-23)1986	193	185	200	600
9	Total Alkalinity as CaCO ₃	mg/l	IS3025(P-23)1986	174	170	200	600
10	Calcium as Ca	mg/l	IS3025(P-40)1991	49.6	47.5	75	200
11	Magnesium as Mg	mg/l	IS3025(P-40)1991	26.3	20.6	30	100
12	Free Residual Chlorine	mg/l	IS3025(P-26)1986	<0.1	<0.1	0.2	No Relaxation
13	Boron as B	mg/l	IS3025(P-57)2021	<0.1	<0.1	0.5	1.0
14	Calcium Hardness as CaCO ₃	mg/l	IS3025(P-40)1991	152	163	--	--
15	Magnesium Hardness as CaCO ₃	mg/l	IS3025(P-40)1991	95	136	--	--
16	Sodium as Na	mg/l	IS3025(P-45)1993	132	142	--	--
17	Potassium as K	mg/l	IS3025(P-45)1993	15	19	--	--
18	Chloride as Cl	mg/l	IS3025(P-32)1988	174	185	250	1000

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S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				PW-1	PW-2	ACCEPTABLE	PERMISSIBLE
19	Sulphates as SO ₄	mg/l	IS3025(P-24)1986	71.5	77.2	200	400
20	Nitrates as NO ₃	mg/l	IS3025(P-34)1988	15.6	24.6	45	No Relaxation
21	Chemical Oxygen Demand	mg/l	IS3025(P-58)2006	<5.0	<5.0	--	--
22	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	IS3025(P-44)1993	<3.0	<3.0	--	--
23	Iron as Fe	mg/l	IS3025(P-53)2003	0.04	0.07	<0.3	No Relaxation
24	Fluoride as F	mg/l	IS3025(P-60)2008	0.75	0.65	<1.0	<1.5
25	Copper as Cu	mg/l	IS3025(P-42)1992	<0.01	<0.01	<0.05	<1.5
26	Manganese as Mn	mg/l	IS3025(P-59)2006	<0.1	<0.1	<0.1	<0.3
27	Phenolic Compounds as C ₆ H ₅ OH	mg/l	IS3025(P-43)1992	<0.001	<0.001	<0.001	<0.002
28	Cadmium as Cd	mg/l	IS3025(P-41)1992	<0.001	<0.001	<0.003	No Relaxation
29	Mercury as Hg	mg/l	IS3025(P-48)1994	<0.001	<0.001	<0.001	No Relaxation
30	Selenium as Se	mg/l	IS3025(P-56)2003	<0.01	<0.01	<0.01	No Relaxation
31	Total Arsenic as As	mg/l	IS3025(P-37)1988	<0.01	<0.01	<0.01	<0.20
32	Cyanide as CN	mg/l	IS3025(P-27)1986	<0.01	<0.01	<0.05	No Relaxation
33	Lead as Pb	mg/l	IS3025(P-47)1994	<0.01	<0.01	<0.01	No Relaxation
34	Zinc as Zn	mg/l	IS3025(P-49)1994	<0.01	<0.01	<5.0	<15
35	Total Chromium as Cr ⁺⁶	mg/l	IS3025(P-52)2003	<0.01	<0.01	<0.05	<1.0
36	Aluminium as Al	mg/l	IS3025(P-55)2003	<0.01	<0.01	0.5	1.0
37	Pesticides	mg/l	As per STP	<0.01	<0.01	--	No Relaxation
38	Dissolved Oxygen	mg/l	IS3025(P-38)1989	5.8	6.3	--	--
39	Oil & Grease	mg/l	IS3025(P-39)2021	<1.0	<1.0	--	--
40	Phosphates as PO ₄	mg/l	IS3025(P-31)1998	<0.01	<0.01	--	--
41	Percent Sodium	%	IS3025(P-45)1993	23.6	29.8	--	--
42	E-Coli	Per/100ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml
43	Total Coliforms	Per/100ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml
44	Fecal Coliforms	MPN/100ml	IS-1622-1981	Absent	Absent	--	--

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TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Water

Product Water

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

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

Date of Monitoring: 19.02.2024

Sample Registration Date: 20.02.2024

Analysis Starting Date: 20.02.2024

Analysis Completed Date: 26.02.2024

Issue Date: 27.02.2024

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

Sample Collected By: Ganesh

TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				PW-3	PW-4	ACCEPTABLE	PERMISSIBLE
1	pH	--	IS3025(P-11)2021	7.3	7.1	6.5- 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.0	1.0	1.0	5.0
3	Turbidity	NTU	IS3025(P-10)1984	0.4	0.5	1.0	5.0
4	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,356	1,385	--	--
5	Temperature	°C	--	33.5	26.7	--	--
6	Total Suspended Solids	mg/l	IS3025(P-17)1984	49	33	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	76	85	500	2000
8	Total Hardness as CaCO ₃	mg/l	IS3025(P-23)1986	245	268	200	600
9	Total Alkalinity as CaCO ₃	mg/l	IS3025(P-23)1986	163	178	200	600
10	Calcium as Ca	mg/l	IS3025(P-40)1991	52	57	75	200
11	Magnesium as Mg	mg/l	IS3025(P-40)1991	22	28	30	100
12	Free Residual Chlorine	mg/l	IS3025(P-26)1986	<0.1	<0.1	0.2	No Relaxation
13	Boron as B	mg/l	IS3025(P-57)2021	<0.1	<0.1	0.5	1.0
14	Calcium Hardness as CaCO ₃	mg/l	IS3025(P-40)1991	165	153	--	--
15	Magnesium Hardness as CaCO ₃	mg/l	IS3025(P-40)1991	137	123	--	--
16	Sodium as Na	mg/l	IS3025(P-45)1993	131	147	--	--
17	Potassium as K	mg/l	IS3025(P-45)1993	39	57	--	--
18	Chloride as Cl	mg/l	IS3025(P-32)1988	164	163	250	1000

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S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS		STANDARDS AS PER IS:10500	
				PW-3	PW-4	ACCEPTABLE	PERMISSIBLE
19	Sulphates as SO ₄	mg/l	IS3025(P-24)1986	59.6	69.6	200	400
20	Nitrates as NO ₃	mg/l	IS3025(P-34)1988	24.7	36.7	45	No Relaxation
21	Chemical Oxygen Demand	mg/l	IS3025(P-58)2006	<5.0	<5.0	--	--
22	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	IS3025(P-44)1993	<3.0	<3.0	--	--
23	Iron as Fe	mg/l	IS3025(P-53)2003	0.23	0.22	<0.3	No Relaxation
24	Fluoride as F	mg/l	IS3025(P-60)2008	0.77	0.74	<1.0	<1.5
25	Copper as Cu	mg/l	IS3025(P-42)1992	<0.01	<0.01	<0.05	<1.5
26	Manganese as Mn	mg/l	IS3025(P-59)2006	<0.1	<0.1	<0.1	<0.3
27	Phenolic Compounds as C ₆ H ₅ OH	mg/l	IS3025(P-43)1992	<0.001	<0.001	<0.001	<0.002
28	Cadmium as Cd	mg/l	IS3025(P-41)1992	<0.001	<0.001	<0.003	No Relaxation
29	Mercury as Hg	mg/l	IS3025(P-48)1994	<0.001	<0.001	<0.001	No Relaxation
30	Selenium as Se	mg/l	IS3025(P-56)2003	<0.01	<0.01	<0.01	No Relaxation
31	Total Arsenic as As	mg/l	IS3025(P-37)1988	<0.01	<0.01	<0.01	<0.20
32	Cyanide as CN	mg/l	IS3025(P-27)1986	<0.01	<0.01	<0.05	No Relaxation
33	Lead as Pb	mg/l	IS3025(P-47)1994	<0.01	<0.01	<0.01	No Relaxation
34	Zinc as Zn	mg/l	IS3025(P-49)1994	<0.01	<0.01	<5.0	<15
35	Total Chromium as Cr ⁺⁶	mg/l	IS3025(P-52)2003	<0.01	<0.01	<0.05	<1.0
36	Aluminium as Al	mg/l	IS3025(P-55)2003	<0.01	<0.01	0.5	1.0
37	Pesticides	mg/l	As per STP	<0.01	<0.01	--	No Relaxation
38	Dissolved Oxygen	mg/l	IS3025(P-38)1989	6.2	4.9	--	--
39	Oil & Grease	mg/l	IS3025(P-39)2021	<1.0	<1.0	--	--
40	Phosphates as PO ₄	mg/l	IS3025(P-31)1998	<0.01	<0.01	--	--
41	Percent Sodium	%	IS3025(P-45)1993	37.4	31.2	--	--
42	E-Coli	Per/100ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml
43	Total Coliforms	Per/100ml	ISO 9308-1	Absent	Absent	Absent/100 ml	Absent/100 ml
44	Fecal Coliforms	MPN/100ml	IS-1622-1981	Absent	Absent	--	--

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Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Water

Product Water

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

Date of Monitoring: 19.02.2024

Sample Registration Date: 20.02.2024

Analysis Starting Date: 20.02.2024

Analysis Completed Date: 26.02.2024

Issue Date: 27.02.2024

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

Sample Collected By: Ganesh

TEST RESULT

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS	STANDARDS AS PER IS:10500	
				PW-5	ACCEPTABLE	PERMISSIBLE
1	pH	--	IS3025(P-11)2021	7.6	6.5- 8.5	No Relaxation
2	Color	Hazen	IS3025(P-04)2021	1.0	1.0	5.0
3	Turbidity	NTU	IS3025(P-10)1984	0.6	1.0	5.0
4	Electric Conductivity	µs/cm	IS3025(P-14)2013	1,456	--	--
5	Temperature	°C	--	36.5	--	--
6	Total Suspended Solids	mg/l	IS3025(P-17)1984	59	--	--
7	Total Dissolved Solids	mg/l	IS3025(P-16)1984	559	500	2000
8	Total Hardness as CaCO ₃	mg/l	IS3025(P-23)1986	252	200	600
9	Total Alkalinity as CaCO ₃	mg/l	IS3025(P-23)1986	246	200	600
10	Calcium as Ca	mg/l	IS3025(P-40)1991	49	75	200
11	Magnesium as Mg	mg/l	IS3025(P-40)1991	23	30	100
12	Free Residual Chlorine	mg/l	IS3025(P-26)1986	<0.1	0.2	No Relaxation
13	Boron as B	mg/l	IS3025(P-57)2021	<0.1	0.5	1.0
14	Calcium Hardness as CaCO ₃	mg/l	IS3025(P-40)1991	142	--	--
15	Magnesium Hardness as CaCO ₃	mg/l	IS3025(P-40)1991	121	--	--
16	Sodium as Na	mg/l	IS3025(P-45)1993	133	--	--
17	Potassium as K	mg/l	IS3025(P-45)1993	69	--	--
18	Chloride as Cl	mg/l	IS3025(P-32)1988	182	250	1000

K.S.Laj
Verified by



DBA
Authorized by
Managing Director

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

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

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





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

S. NO.	TEST PARAMETERS	UNITS	TEST METHOD	RESULTS	STANDARDS AS PER IS:10500	
				PW-5	ACCEPTABLE	PERMISSIBLE
19	Sulphates as SO ₄	mg/l	IS3025(P-24)1986	55.6	200	400
20	Nitrates as NO ₃	mg/l	IS3025(P-34)1988	43.8	45	No Relaxation
21	Chemical Oxygen Demand	mg/l	IS3025(P-58)2006	<5.0	--	--
22	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	IS3025(P-44)1993	<3.0	--	--
23	Iron as Fe	mg/l	IS3025(P-53)2003	0.22	<0.3	No Relaxation
24	Fluoride as F	mg/l	IS3025(P-60)2008	0.53	<1.0	<1.5
25	Copper as Cu	mg/l	IS3025(P-42)1992	<0.01	<0.05	<1.5
26	Manganese as Mn	mg/l	IS3025(P-59)2006	<0.1	<0.1	<0.3
27	Phenolic Compounds as C ₆ H ₅ OH	mg/l	IS3025(P-43)1992	<0.001	<0.001	<0.002
28	Cadmium as Cd	mg/l	IS3025(P-41)1992	<0.001	<0.003	No Relaxation
29	Mercury as Hg	mg/l	IS3025(P-48)1994	<0.001	<0.001	No Relaxation
30	Selenium as Se	mg/l	IS3025(P-56)2003	<0.01	<0.01	No Relaxation
31	Total Arsenic as As	mg/l	IS3025(P-37)1988	<0.01	<0.01	<0.20
32	Cyanide as CN	mg/l	IS3025(P-27)1986	<0.01	<0.05	No Relaxation
33	Lead as Pb	mg/l	IS3025(P-47)1994	<0.01	<0.01	No Relaxation
34	Zinc as Zn	mg/l	IS3025(P-49)1994	<0.01	<5.0	<15
35	Total Chromium as Cr ⁺⁶	mg/l	IS3025(P-52)2003	<0.01	<0.05	<1.0
36	Aluminium as Al	mg/l	IS3025(P-55)2003	<0.01	0.5	1.0
37	Pesticides	mg/l	As per STP	<0.01	--	No Relaxation
38	Dissolved Oxygen	mg/l	IS3025(P-38)1989	4.9	--	--
39	Oil & Grease	mg/l	IS3025(P-39)2021	<1.0	--	--
40	Phosphates as PO ₄	mg/l	IS3025(P-31)1998	<0.01	--	--
41	Percent Sodium	%	IS3025(P-45)1993	29.7	--	--
42	E-Coli	Per/100ml	ISO 9308-1	Absent	Absent/100 ml	Absent/100 ml
43	Total Coliforms	Per/100ml	ISO 9308-1	Absent	Absent/100 ml	Absent/100 ml
44	Fecal Coliforms	MPN/100ml	IS-1622-1981	Absent	--	--

K.S.Laj
Verified by



DBA
Authorized by
Managing Director

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

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





SEIL ENERGY INDIA LIMITED

QUALITY, OCCUPATIONAL HEALTH, SAFETY AND ENVIRONMENT POLICY

QUALITY POLICY

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

OCCUPATIONAL HEALTH, SAFETY AND ENVIRONMENT POLICY

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

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

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

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

May 23rd, 2023

Raghav Trivedi
Chief Executive Officer



भारत सरकार

Government of India

वाणिज्य और उद्योग मंत्रालय

Ministry of Commerce & Industry

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो)

Petroleum & Explosives Safety Organisation (PESO)

डोर न. ७-२०-१३, किरलामपुडी लेआउट

विशाखापट्टनम- 530017

Door No. 7-20-13,

Kirlampudi Layout,

Visakhapatnam - 530017

ANNEXURE-XII

E-mail : dyccevizag@explosives.gov.in

Phone/Fax No : 0891-2722257

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

दिनांक /Dated : 01/01/2024

सेवा में
/To,

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

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

महोदय
/Sir(s),

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

अनुज्ञप्ति संख्या P/HQ/AP/15/4066 (P340586) दिनांक 11/11/2022 को दिनांक 31/12/2028 तक नवीनीकृत कर इस पत्र के साथ अग्रहित की जा रही है।

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

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

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

कृपया पावती दें।

Please acknowledge the receipt.

भवदीय /Yours faithfully,

((एस. के. भोले)

(S. K. Bhole)

विस्फोटक नियंत्रक

Controller of Explosives

कृते उप मुख्य विस्फोटक नियंत्रक

For Dy. Chief Controller of Explosives

विशाखापट्टनम/Visakhapatnam

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

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

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

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

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

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

फीस रूपए (Fee Rs.) 77500/- per year

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

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

यह अनुज्ञप्ति 31st day of December 2028 तक प्रवृत्त रहेगी।

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

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

August 25, 2015

For Chief Controller of Explosives
HQ, Nagpur

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

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

अनुज्ञप्त परिसर जिसकी विन्यास सीमाएं अन्य विशिष्टयां संलग्न अनुमोदित नक्शों में दिखाई गई हैं Survey No: 85, NA, Sivaramapuram, Thotapalligudur, Taluka: Thotapalligudur, District: NELLORE, State: Andhra Pradesh, PIN: 524344 स्थान पर अवस्थित है तथा उसमें निम्नलिखित As per approved drawing attached to the licence. सम्मिलित हैं।

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

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

अनुज्ञप्ति संख्या-(Licence No.) P/HQ/AP/15/4066 (P340586)

नवीनीकरण के पृष्ठांकन के लिए स्थान
SPACE FOR ENDORSEMENT OF RENEWALS

पेट्रोलियम अधिनियम, १९३४ के उपबन्धों या उनके अधीन बनाए गए नियमों या इस अनुज्ञप्ति की शर्तों का उल्लंघन न होने की दशा में यह अनुज्ञप्ति फ़िस में बिना किसी छूट के दस वर्ष तक नवीकृत की जा सकेगी।

This licence shall be renewable without any concession in fee for ten years in the absence of contravention of any provisions of the Petroleum Act, 1934 or of the rules framed thereunder or of any of the conditions of this licence.

नवीकरण की तारीख
Date of
Renewal

समाप्ति की तारीख
Date of
Expiry of license

अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प
Signature and office stamp of the
licencing authority.

1).	30/11/2015	31/12/2018	Sd/- Dr. R. K. Rathore Jt. Chief Controller of Explosives For Dy. Chief Controller of Explosives Visakhapatnam
2).	12/12/2018	31/12/2023	Sd/- J. Sarkar Dy. Chief Controller of Explosives Visakhapatnam
3).	01/01/2024	31/12/2028	S. K. Bhole Controller of Explosives For Dy. Chief Controller of Explosives Visakhapatnam

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

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

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



SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ANNEXURE-XIII

ISSUED TO:

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

Group: Atmospheric Pollution

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

Sampling Location-1: Main Gate

Sample Registration Date: 22.11.2023

Issue Date: 30.11.2023

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

TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	21.11.2023	00:00	39.5
2		01:00	38.6
3		02:00	34.2
4		03:00	35.8
5		04:00	33.3
6		05:00	37.4
7		06:00	55.3
8		07:00	48.7
9		08:00	45.2
10		09:00	53.6
11		10:00	56.1
12		11:00	51.3
13		12:00	49.6
14		13:00	50.7
15		14:00	54.2
16		15:00	52.8
17		16:00	47.6
18		17:00	49.3
19		18:00	44.7
20		19:00	48.5
21		20:00	41.3
22		21:00	47.4
23		22:00	46.1
24		23:00	49.7

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

Serial No : 11180097640

Calibration Due : 28.02.2024

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

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

TEST REPORT

ISSUED TO:

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

Group: Atmospheric Pollution

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

Sampling Location-2: BTG Area

Sample Registration Date: 22.11.2023

Issue Date: 30.11.2023

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

TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	21.11.2023	00:00	36.3
2		01:00	39.1
3		02:00	34.7
4		03:00	43.6
5		04:00	47.5
6		05:00	35.9
7		06:00	48.2
8		07:00	53.4
9		08:00	44.5
10		09:00	56.9
11		10:00	55.3
12		11:00	41.9
13		12:00	45.4
14		13:00	48.6
15		14:00	53.8
16		15:00	45.7
17		16:00	41.5
18		17:00	53.1
19		18:00	47.8
20		19:00	38.6
21		20:00	44.3
22		21:00	42.5
23		22:00	49.4
24		23:00	37.9

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

Instrument Details: Sound Level Meter

Make/Model : Standard/SC-05

Serial No : 200525272

Calibration Due : 28.02.2024

K.S.Laj
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DA
Authorized by
Managing Director

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

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

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





SPECTRA ENVIROTECH PVT LTD

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

TEST REPORT

ISSUED TO:

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

Group: Atmospheric Pollution

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

Sampling Location-3: Coal Handling Plant

Sample Registration Date: 22.11.2023

Issue Date: 30.11.2023

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

TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	21.11.2023	00:00	36.3
2		01:00	44.7
3		02:00	39.5
4		03:00	41.9
5		04:00	36.2
6		05:00	40.6
7		06:00	52.4
8		07:00	44.7
9		08:00	53.6
10		09:00	48.1
11		10:00	43.5
12		11:00	52.3
13		12:00	57.9
14		13:00	54.2
15		14:00	50.8
16		15:00	55.4
17		16:00	58.7
18		17:00	45.6
19		18:00	42.3
20		19:00	47.5
21		20:00	49.3
22		21:00	44.6
23		22:00	51.7
24		23:00	41.3

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

Instrument Details: Sound Level Meter

Make/Model : Lutron /SL-34001

Serial No : Q6352440

Calibration Due : 28.02.2024

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

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TEST REPORT

ISSUED TO:

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

Group: Atmospheric Pollution

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

Sampling Location-4: Varakavipudi Village

Sample Registration Date: 22.11.2023

Issue Date: 30.11.2023

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

TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	21.11.2023	00:00	38.7
2		01:00	35.3
3		02:00	38.6
4		03:00	31.3
5		04:00	36.9
6		05:00	33.5
7		06:00	34.4
8		07:00	38.6
9		08:00	42.9
10		09:00	47.3
11		10:00	44.7
12		11:00	48.5
13		12:00	45.8
14		13:00	41.2
15		14:00	46.6
16		15:00	48.4
17		16:00	43.5
18		17:00	38.9
19		18:00	47.3
20		19:00	35.1
21		20:00	39.7
22		21:00	34.4
23		22:00	36.5
24		23:00	31.2

Note: As per CPCB Standards (Residential Area)

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

Instrument Details: Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097641

Calibration Due : 28.02.2024

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TEST REPORT

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

Group: Atmospheric Pollution

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

Sampling Location-5: Sivaramapuram Village

Sample Registration Date: 22.11.2023

Issue Date: 30.11.2023

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

TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	21.11.2023	00:00	38.2
2		01:00	30.4
3		02:00	35.9
4		03:00	31.5
5		04:00	36.8
6		05:00	38.3
7		06:00	35.6
8		07:00	43.9
9		08:00	47.4
10		09:00	34.5
11		10:00	46.2
12		11:00	38.3
13		12:00	43.6
14		13:00	47.7
15		14:00	35.9
16		15:00	38.5
17		16:00	45.1
18		17:00	43.4
19		18:00	47.6
20		19:00	44.5
21		20:00	37.3
22		21:00	35.4
23		22:00	38.7
24		23:00	34.2

Note: As per CPCB Standards (Residential Area)

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

Instrument Details: Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097642

Calibration Due : 28.02.2024

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TEST REPORT

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

Group: Atmospheric Pollution

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

Sampling Location-6: Chandrasekharapuram Village

Sample Registration Date: 22.11.2023

Issue Date: 30.11.2023

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

TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	21.11.2023	00:00	36.4
2		01:00	32.9
3		02:00	35.2
4		03:00	38.6
5		04:00	34.5
6		05:00	38.3
7		06:00	33.8
8		07:00	45.6
9		08:00	43.4
10		09:00	41.3
11		10:00	39.5
12		11:00	44.1
13		12:00	47.6
14		13:00	43.9
15		14:00	37.8
16		15:00	45.5
17		16:00	43.3
18		17:00	48.1
19		18:00	42.2
20		19:00	38.6
21		20:00	33.4
22		21:00	41.8
23		22:00	31.3
24		23:00	39.7

Note: As per CPCB Standards (Residential Area)

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

Instrument Details: Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097643

Calibration Due : 28.02.2024

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





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TEST REPORT

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

Group: Atmospheric Pollution

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

Date of Sampling: 21-11-2023

Sample Registration Date: 22.11.2023

Issue Date: 30.11.2023

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

TEST RESULT

Particulars	Main Gate dB (A)	BTG Area dB (A)	Coal Handling Plant dB (A)	Varakavipudi Village dB (A)	Sivaramapuram Village dB (A)	Chandra sekharapuram Village dB (A)
	Day Time: (6 AM-10 PM) < 75 dB (A), Night Time: (10 PM-6 AM) < 70 dB (A)			Day Time: (6 AM-10 PM) < 55 dB (A), Night Time: (10 PM-6 AM) < 45 dB (A)		
Minimum	33.3	34.7	36.2	31.2	30.4	31.3
Maximum	56.1	56.9	58.7	48.5	47.7	48.1
Average	46.2	45.2	47.2	40.4	39.5	39.8

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TEST REPORT

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

Group: Atmospheric Pollution

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

Sampling Location-1: Main Gate

Sample Registration Date: 20.02.2024

Issue Date: 27.02.2024

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

TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	19.02.2024	00:00	41.2
2		01:00	39.6
3		02:00	36.3
4		03:00	37.4
5		04:00	34.9
6		05:00	38.6
7		06:00	52.4
8		07:00	53.6
9		08:00	47.1
10		09:00	50.2
11		10:00	53.2
12		11:00	55.9
13		12:00	51.7
14		13:00	52.9
15		14:00	56.3
16		15:00	55.8
17		16:00	49.6
18		17:00	50.3
19		18:00	46.7
20		19:00	50.6
21		20:00	43.6
22		21:00	49.6
23		22:00	45.2
24		23:00	46.5

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

Instrument Details: Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097640

Calibration Due : 28.02.2025

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

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

TEST REPORT

ISSUED TO:

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

Group: Atmospheric Pollution

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

Sampling Location-2: BTG Area

Sample Registration Date: 20.02.2024

Issue Date: 27.02.2024

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

TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	19.02.2024	00:00	33.2
2		01:00	35.6
3		02:00	36.6
4		03:00	47.2
5		04:00	49.6
6		05:00	33.7
7		06:00	45.2
8		07:00	50.3
9		08:00	41.8
10		09:00	53.9
11		10:00	57.1
12		11:00	43.6
13		12:00	49.6
14		13:00	45.7
15		14:00	50.9
16		15:00	47.1
17		16:00	43.6
18		17:00	55.8
19		18:00	45.2
20		19:00	40.1
21		20:00	42.7
22		21:00	44.3
23		22:00	45.2
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 : Standard/SC-05

Serial No : 200525272

Calibration Due : 28.02.2025

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

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TEST REPORT

ISSUED TO:

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

Group: Atmospheric Pollution

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

Sampling Location-3: Coal Handling Plant

Sample Registration Date: 20.02.2024

Issue Date: 27.02.2024

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

TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	19.02.2024	00:00	39.2
2		01:00	46.7
3		02:00	41.2
4		03:00	43.9
5		04:00	34.2
6		05:00	42.7
7		06:00	38.6
8		07:00	46.8
9		08:00	50.2
10		09:00	46.2
11		10:00	45.7
12		11:00	50.9
13		12:00	55.3
14		13:00	52.8
15		14:00	53.7
16		15:00	58.6
17		16:00	55.3
18		17:00	47.1
19		18:00	45.6
20		19:00	49.8
21		20:00	45.2
22		21:00	47.3
23		22:00	53.7
24		23:00	43.9

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

Instrument Details: Sound Level Meter

Make/Model : Lutron /SL-34001

Serial No : Q6352440

Calibration Due : 28.02.2025

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

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TEST REPORT

ISSUED TO:

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

Group: Atmospheric Pollution

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

Sampling Location-4: Varakavipudi Village

Sample Registration Date: 20.02.2024

Issue Date: 27.02.2024

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

TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	19.02.2024	00:00	26.2
2		01:00	32.4
3		02:00	35.7
4		03:00	33.2
5		04:00	28.6
6		05:00	35.6
7		06:00	37.8
8		07:00	39.5
9		08:00	35.1
10		09:00	36.8
11		10:00	41.2
12		11:00	45.7
13		12:00	47.3
14		13:00	43.5
15		14:00	49.8
16		15:00	45.7
17		16:00	40.2
18		17:00	41.3
19		18:00	44.7
20		19:00	32.3
21		20:00	35.6
22		21:00	31.2
23		22:00	33.9
24		23:00	34.6

Note: As per CPCB Standards (Residential Area)

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

Instrument Details: Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097641

Calibration Due : 28.02.2025

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

Group: Atmospheric Pollution

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

Sampling Location-5: Sivaramapuram Village

Sample Registration Date: 20.02.2024

Issue Date: 27.02.2024

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

TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	19.02.2024	00:00	30.2
2		01:00	31.6
3		02:00	29.4
4		03:00	32.6
5		04:00	35.8
6		05:00	36.1
7		06:00	33.8
8		07:00	40.2
9		08:00	38.6
10		09:00	36.3
11		10:00	43.8
12		11:00	40.2
13		12:00	45.8
14		13:00	49.3
15		14:00	37.1
16		15:00	35.7
17		16:00	47.5
18		17:00	45.6
19		18:00	49.2
20		19:00	42.4
21		20:00	39.6
22		21:00	33.2
23		22:00	35.1
24		23:00	30.4

Note: As per CPCB Standards (Residential Area)

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

Instrument Details: Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097642

Calibration Due : 28.02.2025

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

Group: Atmospheric Pollution

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

Sampling Location-6: Chandrasekharapuram Village

Sample Registration Date: 20.02.2024

Issue Date: 27.02.2024

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

TEST RESULT

S. NO	DATE	TIME (Hrs.)	dB (A)
1	19.02.2024	00:00	33.4
2		01:00	30.5
3		02:00	37.3
4		03:00	35.4
5		04:00	34.5
6		05:00	36.7
7		06:00	35.2
8		07:00	41.7
9		08:00	40.6
10		09:00	43.6
11		10:00	42.8
12		11:00	46.9
13		12:00	49.3
14		13:00	40.7
15		14:00	39.3
16		15:00	41.8
17		16:00	40.2
18		17:00	45.3
19		18:00	40.5
20		19:00	41.6
21		20:00	35.7
22		21:00	43.5
23		22:00	35.6
24		23:00	36.4

Note: As per CPCB Standards (Residential Area)

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

Instrument Details: Sound Level Meter

Make/Model : Metravi/SL-3010

Serial No : 11180097643

Calibration Due : 28.02.2025

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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TEST REPORT

ISSUED TO:

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

Group: Atmospheric Pollution

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

Date of Sampling: 19-02-2024

Sample Registration Date: 20.02.2024

Issue Date: 27.02.2024

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

TEST RESULT

Particulars	Main Gate dB (A)	BTG Area dB (A)	Coal Handling Plant dB (A)	Varakavipudi Village dB (A)	Sivaramapuram Village dB (A)	Chandra sekharapuram Village dB (A)
	Day Time: (6 AM-10 PM) < 75 dB (A), Night Time: (10 PM-6 AM) < 70 dB (A)			Day Time: (6 AM-10 PM) < 55 dB (A), Night Time: (10 PM-6 AM) < 45 dB (A)		
Minimum	34.9	33.2	34.2	26.2	29.4	30.5
Maximum	56.3	57.1	58.6	49.8	49.3	49.3
Average	47.46	44.90	47.27	37.82	38.31	39.52

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

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TEST REPORT

ANNEXURE-XIV

ISSUED TO: M/s. SEIL ENERGY INDIA LIMITED PROJECT-2 (2x660 MW Coal Based Thermal Power Plant), Near Ananthavaram (V), Thotapalli Gudur (M), SPSR Nellore (Dist.) -524344.	
Discipline: Chemical	Sample Registration Date: 28.10.2023
Group: Atmospheric Pollution	Issue Date: 04.11.2023
Product: Ambient Air Quality Monitoring –October 2023	Lab Ref: SEPL/ES/SEILEILP/10-23/0001
Location-1: Fire Station (Plant Site)	Sample collected person details: S. Ganesh

TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				mg/m^3	$\mu\text{g}/\text{m}^3$				ng/m^3		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	Pb	O ₃	NH ₃	C ₆ H ₆	BaP	As	Ni
05.10.2023	41.5	34.7	8.5	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
06.10.2023	39.9	31.3	7.4	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.10.2023	35.4	28.5	6.3	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.10.2023	37.6	29.9	8.4	6.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.10.2023	43.7	22.4	7.6	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.10.2023	38.3	33.1	8.7	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.10.2023	44.1	36.2	7.2	7.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.10.2023	42.8	35.8	7.8	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	35.4	22.4	6.3	6.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	44.1	36.2	8.7	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	40.4	31.4	7.7	7.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	44.0	36.1	8.7	8.8	<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 : 28.02.2024

Instruments Details:

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

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-2

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

Discipline: Chemical

Group: Atmospheric Pollution

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

Location-2: Sivaramapuram village

Sample Registration Date: 28.10.2023

Issue Date: 04.11.2023

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

Sample collected person details: S. Ganesh

TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				mg/m^3	$\mu\text{g}/\text{m}^3$				ng/m^3		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	Pb	O ₃	NH ₃	C ₆ H ₆	BaP	As	Ni
05.10.2023	48.2	27.9	8.1	7.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
06.10.2023	35.4	31.7	7.6	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.10.2023	27.5	22.5	9.2	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.10.2023	39.1	33.4	6.9	6.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.10.2023	37.7	31.6	7.1	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.10.2023	42.9	38.3	6.2	6.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.10.2023	45.3	34.1	6.6	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.10.2023	31.8	26.2	7.7	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	27.5	22.5	6.2	6.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	48.2	38.3	9.2	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	38.4	30.7	7.4	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	47.8	37.7	9.0	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	2.0

Instruments Details:

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

Instruments Details:

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

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TEST REPORT

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring –October 2023

Location-3: Chandrasekharapuram Village

Sample Registration Date: 28.10.2023

Issue Date: 04.11.2023

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

Sample collected person details: S. Ganesh

TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				mg/m^3	$\mu\text{g}/\text{m}^3$				ng/m^3		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	Pb	O ₃	NH ₃	C ₆ H ₆	BaP	As	Ni
05.10.2023	47.7	29.9	8.1	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
06.10.2023	38.4	32.5	6.4	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.10.2023	44.9	35.2	7.8	6.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.10.2023	46.6	39.8	8.6	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.10.2023	36.3	31.6	8.3	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.10.2023	38.8	34.3	7.5	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.10.2023	44.2	36.7	6.9	6.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.10.2023	45.5	38.1	8.2	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	36.3	29.9	6.4	6.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	47.7	39.8	8.6	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	42.8	34.7	7.7	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	47.5	39.6	8.6	9.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

Instruments Details:

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

Instruments Details:

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

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TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – October 2023

Location-4: Varakavipudi Village

Sample Registration Date: 28.10.2023

Issue Date: 04.11.2023

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

Sample collected person details: S. Ganesh

TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				mg/m^3	$\mu\text{g}/\text{m}^3$				ng/m^3		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	Pb	O ₃	NH ₃	C ₆ H ₆	BaP	As	Ni
05.10.2023	48.2	35.5	6.3	7.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
06.10.2023	38.5	31.8	7.1	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.10.2023	46.7	33.3	6.9	6.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
13.10.2023	32.3	28.2	6.5	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.10.2023	31.4	24.6	8.2	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
20.10.2023	47.1	42.1	6.4	6.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.10.2023	54.6	46.7	7.2	7.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
27.10.2023	38.9	35.9	8.7	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	31.4	24.6	6.3	6.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	54.6	46.7	8.7	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	42.2	34.7	7.1	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	53.2	46.1	8.6	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

Instruments Details:

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

Instruments Details:

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

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SUMMARY OF AMBIENT AIR QUALITY OCTOBER 2023

Pollutants	Description	Unit	Fire Station (Plant)-1	Sivaramapuram Village-2	Chandra sekharapuram Village-3	Varakavipudi Village-4
PM ₁₀	Minimum	µg/m ³	35.4	27.5	36.3	31.4
	Maximum		44.1	48.2	47.7	54.6
	Average		40.4	38.5	42.8	42.2
	98 Percentile		44.0	47.8	47.5	53.7
PM _{2.5}	Minimum		22.4	22.5	29.9	24.6
	Maximum		36.2	38.3	39.8	46.7
	Average		31.5	30.7	34.7	34.8
	98 Percentile		36.1	27.4	39.6	46.1
SO ₂	Minimum		6.3	6.2	6.4	6.3
	Maximum		8.7	9.2	8.6	8.7
	Average		7.7	7.4	7.7	7.2
	98 Percentile		8.7	17.5	8.6	8.6
NO _x	Minimum		6.2	6.3	6.4	6.4
	Maximum		8.8	8.5	9.2	8.2
	Average		7.7	7.6	7.6	7.5
	98 Percentile		8.8	8.5	9.1	8.2

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TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – November 2023

Location-1: Fire Station (Plant Site)

Sample Registration Date: 25.11.2023

Issue Date: 30.11.2023

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

Sample collected person details: S. Ganesh

TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				mg/m^3	$\mu\text{g}/\text{m}^3$				ng/m^3		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	Pb	O ₃	NH ₃	C ₆ H ₆	BaP	As	Ni
02.11.2023	38.4	32.2	7.8	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
03.11.2023	21.9	18.5	7.9	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.11.2023	45.6	34.7	7.1	7.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
10.11.2023	27.2	25.8	8.6	6.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.11.2023	34.5	29.4	7.5	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
17.11.2023	42.1	36.3	7.3	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.11.2023	39.8	31.2	8.4	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
24.11.2023	36.3	25.9	7.7	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	21.9	18.5	7.1	6.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	45.6	36.3	8.6	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	35.7	29.3	7.8	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	45.1	36.1	8.6	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

Instruments Details:

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

Instruments Details:

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

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TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – November 2023

Location-2: Sivarampuram village

Sample Registration Date: 25.11.2023

Issue Date: 30.11.2023

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

Sample collected person details: S. Ganesh

TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				mg/m^3	$\mu\text{g}/\text{m}^3$				ng/m^3		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	Pb	O ₃	NH ₃	C ₆ H ₆	BaP	As	Ni
02.11.2023	37.3	21.6	8.3	6.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
03.11.2023	45.7	35.1	7.8	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.11.2023	24.2	19.4	8.1	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
10.11.2023	36.5	27.5	8.9	6.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.11.2023	28.4	26.9	6.2	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
17.11.2023	37.9	34.7	6.7	6.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.11.2023	34.6	24.8	8.3	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
24.11.2023	41.8	31.2	7.7	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	24.2	19.4	6.2	6.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	45.7	35.1	8.9	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	35.8	27.7	7.8	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	45.2	24.7	7.8	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	2.0

Instruments Details:

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

Instruments Details:

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

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TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – November 2023

Location-3: Chandrasekharapuram Village

Sample Registration Date: 25.11.2023

Issue Date: 30.11.2023

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

Sample collected person details: S. Ganesh

TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				mg/m^3	$\mu\text{g}/\text{m}^3$				ng/m^3		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	Pb	O ₃	NH ₃	C ₆ H ₆	BaP	As	Ni
02.11.2023	35.4	29.1	7.6	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
03.11.2023	29.9	24.7	8.1	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.11.2023	33.5	28.8	6.8	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
10.11.2023	28.7	23.5	7.9	6.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.11.2023	24.8	19.2	8.2	7.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
17.11.2023	23.6	17.4	8.5	6.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.11.2023	19.2	15.6	7.4	6.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
24.11.2023	26.3	21.9	7.3	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	19.2	15.6	6.8	6.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	35.4	29.1	8.5	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	27.7	22.5	7.7	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	35.1	29.1	8.5	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

Instruments Details:

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

Instruments Details:

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

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TEST REPORT

ISSUED TO: M/S.SEIL ENERGY INDIA LIMITED PROJECT-2 (2x660 MW Coal Based Thermal Power Plant), Near Ananthavaram (V), Thotapalli Gudur (M), SPSR Nellore (Dist.) -524344.	
Discipline: Chemical	Sample Registration Date: 25.11.2023
Group: Atmospheric Pollution	Issue Date: 30.11.2023
Product: Ambient Air Quality Monitoring – November 2023	Lab Ref: SEPL/ES/SEILEILP/11-23/0004
Location-4: Varakavipudi Village	Sample collected person details: S. Ganesh

TEST RESULT

Date Of Sampling	µg/m ³				mg/m ³	µg/m ³				ng/m ³		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	Pb	O ₃	NH ₃	C ₆ H ₆	BaP	As	Ni
02.11.2023	27.5	24.6	8.5	6.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
03.11.2023	21.9	19.2	7.9	6.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.11.2023	25.4	23.4	6.1	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
10.11.2023	24.8	17.6	6.7	7.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.11.2023	26.2	23.5	7.8	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
17.11.2023	29.6	26.7	7.2	7.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.11.2023	17.8	15.1	7.7	6.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
24.11.2023	33.1	28.3	6.4	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	17.8	15.1	6.1	6.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	33.1	28.3	8.5	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	25.8	22.3	7.3	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	32.6	28.1	8.4	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 : 28.02.2024

Instruments Details:

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

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SUMMARY OF AMBIENT AIR QUALITY - November 2023

Pollutants	Description	Unit	Fire Station (Plant)-1	Sivaramapuram Village-2	Chandra sekharapuram Village-3	Varakavipudi Village-4
PM ₁₀	Minimum	µg/m ³	21.9	24.2	19.2	17.8
	Maximum		45.6	45.7	35.4	33.1
	Average		35.7	35.8	27.7	25.8
	98 Percentile		45.1	45.2	35.1	32.6
PM _{2.5}	Minimum		18.5	19.4	15.6	15.1
	Maximum		36.3	35.1	29.1	28.3
	Average		29.3	27.7	22.5	22.3
	98 Percentile		36.1	24.7	29.1	28.1
SO ₂	Minimum		7.1	6.2	6.8	6.1
	Maximum		8.6	8.9	8.5	8.5
	Average		7.8	7.8	7.7	7.3
	98 Percentile		8.6	7.8	8.5	8.4
NO _x	Minimum		6.9	6.3	6.4	6.4
	Maximum		8.2	7.9	8.3	8.2
	Average		7.6	7.1	7.4	7.2
	98 Percentile		8.2	7.9	8.3	8.1

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TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – December 2023

Location-1: Fire Station (Plant Site)

Sample Registration Date: 30.12.2023

Issue Date: 05.01.2024

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

Sample collected person details: S. Ganesh

TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				mg/m^3	$\mu\text{g}/\text{m}^3$				ng/m^3		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	Pb	O ₃	NH ₃	C ₆ H ₆	BaP	As	Ni
07.12.2023	42.6	37.1	7.2	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.12.2023	28.2	25.4	7.6	6.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.12.2023	35.4	31.2	6.9	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.12.2023	23.1	19.7	8.1	6.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.12.2023	32.7	28.3	7.3	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.12.2023	38.3	33.5	7.5	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.12.2023	31.5	26.8	8.3	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.12.2023	37.8	34.6	7.4	10.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	23.1	19.7	6.9	6.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	42.6	37.1	8.4	10.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	33.7	29.6	7.6	8.0	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	42.0	36.8	8.4	10.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

Instruments Details:

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

Instruments Details:

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

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TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-2

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – December 2023

Location-2: Sivaramapuram village

Sample Registration Date: 30.12.2023

Issue Date: 05.01.2024

Lab Ref: SEPL/ES/SEILEILP/12-23/0002

Sample collected person details: S. Ganesh

TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				mg/m^3	$\mu\text{g}/\text{m}^3$				ng/m^3		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	Pb	O ₃	NH ₃	C ₆ H ₆	BaP	As	Ni
07.12.2023	33.5	28.7	8.1	6.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.12.2023	48.7	33.3	7.3	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.12.2023	26.1	23.5	8.6	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.12.2023	34.4	26.1	8.2	6.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.12.2023	27.6	22.2	6.9	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.12.2023	35.8	31.6	6.5	6.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.12.2023	39.9	29.4	7.7	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.12.2023	43.2	35.8	7.2	7.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	26.1	22.2	6.5	6.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	48.7	35.8	8.6	7.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	36.2	28.8	7.6	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	47.9	25.7	7.6	7.7	<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	2.0

Instruments Details:

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

Instruments Details:

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

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TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – December 2023

Location-3: Chandrasekharapuram Village

Sample Registration Date: 30.12.2023

Issue Date: 05.01.2024

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

Sample collected person details: S. Ganesh

TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				mg/m^3	$\mu\text{g}/\text{m}^3$				ng/m^3		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	Pb	O ₃	NH ₃	C ₆ H ₆	BaP	As	Ni
07.12.2023	36.9	32.3	8.3	7.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.12.2023	25.5	21.4	7.5	7.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.12.2023	31.3	29.7	6.3	6.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.12.2023	29.4	25.1	7.1	6.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.12.2023	38.6	35.5	8.4	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.12.2023	29.7	26.2	7.8	6.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.12.2023	23.2	19.6	7.2	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.12.2023	33.8	28.8	7.9	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	23.2	19.6	6.3	6.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	38.6	35.5	8.4	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	31.1	27.3	7.6	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	38.4	35.1	8.4	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

Instruments Details:

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

Instruments Details:

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

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TEST REPORT

ISSUED TO: M/s. SEIL ENERGY INDIA LIMITED PROJECT-2 (2x660 MW Coal Based Thermal Power Plant), Near Ananthavaram (V), Thotapalli Gudur (M), SPSR Nellore (Dist.) -524344.	
Discipline: Chemical	Sample Registration Date: 30.12.2023
Group: Atmospheric Pollution	Issue Date: 05.01.2024
Product: Ambient Air Quality Monitoring – December 2023	Lab Ref: SEPL/ES/SEILEILP/12-23/0004
Location-4: Varakavipudi Village	Sample collected person details: S. Ganesh

TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				mg/m^3	$\mu\text{g}/\text{m}^3$				ng/m^3		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	Pb	O ₃	NH ₃	C ₆ H ₆	BaP	As	Ni
07.12.2023	31.2	29.5	8.1	6.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.12.2023	28.6	25.8	7.5	6.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.12.2023	23.9	21.4	6.7	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.12.2023	19.5	16.7	6.9	7.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.12.2023	25.3	22.6	7.3	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.12.2023	22.7	20.9	7.4	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.12.2023	26.3	24.2	7.8	6.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.12.2023	33.8	27.3	6.6	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	19.5	16.7	6.6	6.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	33.8	29.5	8.1	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	26.4	23.6	7.3	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	33.4	29.2	8.1	9.0	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

Instruments Details:

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

Instruments Details:

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

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SUMMARY OF AMBIENT AIR QUALITY -December 2023

Pollutants	Description	Unit	Fire Station (Plant)-1	Sivaramapuram Village-2	Chandra sekharapuram Village-3	Varakavipudi Village-4
PM ₁₀	Minimum	µg/m ³	23.1	26.1	23.2	19.5
	Maximum		42.6	48.7	38.6	33.8
	Average		33.7	36.2	31.1	26.4
	98 Percentile		42.0	47.9	38.4	33.4
PM _{2.5}	Minimum		19.7	22.2	19.6	16.7
	Maximum		37.1	35.8	35.5	29.5
	Average		29.6	28.8	27.3	23.6
	98 Percentile		36.8	25.7	35.1	29.2
SO ₂	Minimum		6.9	6.5	6.3	6.6
	Maximum		8.4	8.6	8.4	8.1
	Average		7.6	7.6	7.6	7.3
	98 Percentile		8.4	7.6	8.4	8.1
NO _x	Minimum		6.5	6.7	6.5	6.3
	Maximum		10.7	7.7	8.1	9.2
	Average		8.0	7.2	7.3	7.4
	98 Percentile		10.4	7.7	8.1	9.0

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TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – January 2024

Location-1: Fire Station (Plant Site)

Sample Registration Date: 29.01.2024

Issue Date: 25.02.2024

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

Sample collected person details: S. Ganesh

TEST RESULTS

Date Of Sampling	$\mu\text{g}/\text{m}^3$				mg/m^3	$\mu\text{g}/\text{m}^3$				ng/m^3		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	Pb	O ₃	NH ₃	C ₆ H ₆	BaP	As	Ni
04.01.2024	41.5	36.3	11.6	9.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
05.01.2024	35.8	28.7	17.8	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.01.2024	29.2	25.5	12.5	9.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.01.2024	37.9	34.4	16.4	9.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.01.2024	33.6	31.6	10.7	10.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.01.2024	36.7	33.8	14.2	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.01.2024	43.4	39.9	10.8	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.01.2024	32.1	27.1	15.3	9.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	29.2	25.5	10.7	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	43.4	39.9	17.8	10.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	36.3	32.2	13.7	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	43.1	39.4	17.6	10.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

Instruments Details:

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

Instruments Details:

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

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TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – January 2024

Location-2: Sivarampuram village

Sample Registration Date: 29.01.2024

Issue Date: 25.02.2024

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

Sample collected person details: S. Ganesh

TEST RESULTS

Date Of Sampling	$\mu\text{g}/\text{m}^3$				mg/m^3	$\mu\text{g}/\text{m}^3$				ng/m^3		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	Pb	O ₃	NH ₃	C ₆ H ₆	BaP	As	Ni
04.01.2024	38.5	36.2	10.8	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
05.01.2024	41.6	39.7	16.2	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.01.2024	35.9	32.4	12.7	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.01.2024	33.7	28.6	15.4	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.01.2024	39.4	35.3	13.6	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.01.2024	36.3	33.1	11.9	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.01.2024	42.2	37.5	12.1	9.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.01.2024	34.1	31.8	14.5	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	33.7	28.6	10.8	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	42.2	39.7	16.2	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	37.7	34.3	13.4	9.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	42.1	39.4	16.1	9.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	2.0

Instruments Details:

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

Instruments Details:

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

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TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – January 2024

Location-3: Chandrasekharapuram Village

Sample Registration Date: 29.01.2024

Issue Date: 25.02.2024

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

Sample collected person details: S. Ganesh

TEST RESULTS

Date Of Sampling	$\mu\text{g}/\text{m}^3$				mg/m^3	$\mu\text{g}/\text{m}^3$				ng/m^3		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	Pb	O ₃	NH ₃	C ₆ H ₆	BaP	As	Ni
04.01.2024	42.1	39.3	10.2	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
05.01.2024	38.5	35.6	9.6	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.01.2024	32.6	28.7	8.5	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.01.2024	36.4	33.5	9.4	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.01.2024	35.7	31.8	8.7	9.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.01.2024	33.3	27.4	9.3	9.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.01.2024	28.2	24.9	8.8	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.01.2024	39.8	36.1	9.1	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	28.2	24.9	8.5	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	42.1	39.3	10.2	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	35.8	32.2	9.2	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	41.8	38.9	10.1	9.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

Instruments Details:

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

Instruments Details:

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

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TEST REPORT

ISSUED TO: M/s. SEIL ENERGY INDIA LIMITED PROJECT-2 (2x660 MW Coal Based Thermal Power Plant) Near Ananthavaram (V), Thotapalli Gudur (M), SPSR Nellore (Dist.) -524344.	
Discipline: Chemical	Sample Registration Date: 29.01.2024
Group: Atmospheric Pollution	Issue Date: 25.02.2024
Product: Ambient Air Quality Monitoring – January 2024	Lab Ref: SEPL/ES/SEILEILP/01-24/0004
Location-4: Varakavipudi Village	Sample collected person details: S. Ganesh

TEST RESULTS

Date Of Sampling	$\mu\text{g}/\text{m}^3$				mg/m^3	$\mu\text{g}/\text{m}^3$				ng/m^3		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	Pb	O ₃	NH ₃	C ₆ H ₆	BaP	As	Ni
04.01.2024	36.5	33.2	9.4	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
05.01.2024	39.8	37.9	10.1	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
11.01.2024	32.1	31.5	9.6	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
12.01.2024	37.5	36.4	8.2	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
18.01.2024	28.2	25.6	8.8	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
19.01.2024	33.4	32.1	9.5	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
25.01.2024	38.9	35.3	8.7	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
26.01.2024	31.6	29.8	8.4	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	28.2	25.6	8.2	7.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	39.8	37.9	10.1	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	34.8	32.7	9.1	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	39.7	37.7	10.0	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

Instruments Details:

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

Instruments Details:

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

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SUMMARY OF AMBIENT AIR QUALITY – JANUARY 2024

Pollutants	Description	Unit	Fire Station (Plant)-1	Sivaramapuram Village-2	Chandra sekharapuram Village-3	Varakavipudi Village-4
PM ₁₀	Minimum	µg/m ³	29.2	33.7	28.2	28.2
	Maximum		43.4	42.2	42.1	39.8
	Average		36.3	37.7	35.8	34.8
	98 Percentile		43.1	42.1	41.8	39.7
PM _{2.5}	Minimum		25.5	28.6	24.9	25.6
	Maximum		39.9	39.7	39.3	37.9
	Average		32.2	34.3	32.2	32.7
	98 Percentile		39.4	39.4	38.9	37.7
SO ₂	Minimum		10.7	10.8	8.5	8.2
	Maximum		17.8	16.2	10.2	10.1
	Average		13.7	13.4	9.2	9.1
	98 Percentile		17.6	16.1	10.1	10.0
NO _x	Minimum		8.1	8.2	7.3	7.5
	Maximum		10.3	9.9	9.9	9.3
	Average		9.2	9.1	8.8	8.4
	98 Percentile		10.2	9.8	9.8	9.2

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TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – February 2024

Location-1: Fire Station (Plant Site)

Sample Registration Date: 24.02.2024

Issue Date: 02.03.2024

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

Sample collected person details: S. Ganesh

TEST RESULTS

Date Of Sampling	$\mu\text{g}/\text{m}^3$				mg/m^3	$\mu\text{g}/\text{m}^3$				ng/m^3		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	Pb	O ₃	NH ₃	C ₆ H ₆	BaP	As	Ni
01.02.2024	43.5	39.5	11.3	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
02.02.2024	37.8	30.7	17.5	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.02.2024	26.3	27.6	12.9	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.02.2024	35.1	32.8	16.8	9.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.02.2024	30.7	28.5	10.9	10.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.02.2024	33.9	30.7	14.7	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.02.2024	45.6	35.2	11.3	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.02.2024	35.4	25.6	15.8	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	26.3	25.6	10.9	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	45.6	39.5	17.5	10.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	36.0	31.3	13.9	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	45.3	38.9	17.4	10.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

Instruments Details:

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

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



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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-2 (2x660 MW Coal Based Thermal Power Plant), Near Ananthavaram(V), Thotapalli Gudur (M), SPSR Nellore (Dist.) -524344.	
Discipline: Chemical	Sample Registration Date: 24.02.2024
Group: Atmospheric Pollution	Issue Date: 02.03.2024
Product: Ambient Air Quality Monitoring – February 2024	Lab Ref: SEPL/ES/SEILEILP/02-24/0002
Location-2: Sivarampuram village	Sample collected person details: S. Ganesh

TEST RESULTS

Date Of Sampling	$\mu\text{g}/\text{m}^3$				mg/m^3	$\mu\text{g}/\text{m}^3$				ng/m^3		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	Pb	O ₃	NH ₃	C ₆ H ₆	BaP	As	Ni
01.02.2024	35.3	33.2	10.5	9.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
02.02.2024	43.8	35.9	16.6	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.02.2024	33.7	30.7	12.9	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.02.2024	30.6	25.3	15.8	9.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.02.2024	35.2	32.8	14.2	9.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.02.2024	33.9	30.4	11.5	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.02.2024	45.7	35.9	12.7	9.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.02.2024	32.5	33.6	14.1	8.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	30.6	25.3	10.5	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	45.7	35.9	16.6	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	36.3	32.2	13.5	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	45.3	35.9	16.5	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	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

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TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – February 2024

Location-3: Chandrasekharapuram Village

Sample Registration Date: 24.02.2024

Issue Date: 02.03.2024

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

Sample collected person details: S. Ganesh

TEST RESULTS

Date Of Sampling	$\mu\text{g}/\text{m}^3$				mg/m^3	$\mu\text{g}/\text{m}^3$				ng/m^3		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	Pb	O ₃	NH ₃	C ₆ H ₆	BaP	As	Ni
01.02.2024	44.5	35.1	10.6	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
02.02.2024	35.6	33.6	9.3	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.02.2024	34.2	30.4	8.9	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.02.2024	33.7	31.9	9.7	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.02.2024	32.1	29.6	8.9	9.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.02.2024	30.6	29.8	9.6	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.02.2024	25.3	22.7	8.5	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.02.2024	35.4	33.5	9.4	9.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	25.3	22.7	8.5	7.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	44.5	35.1	10.6	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	33.9	30.8	9.4	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	43.3	34.9	10.5	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

Instruments Details:

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

Instruments Details:

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

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

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TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – February 2024

Location-4: Varakavipudi Village

Sample Registration Date: 24.02.2024

Issue Date: 02.03.2024

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

Sample collected person details: S. Ganesh

TEST RESULTS

Date Of Sampling	$\mu\text{g}/\text{m}^3$				mg/m^3	$\mu\text{g}/\text{m}^3$				ng/m^3		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	Pb	O ₃	NH ₃	C ₆ H ₆	BaP	As	Ni
01.02.2024	33.1	28.8	9.6	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
02.02.2024	35.9	32.2	10.3	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.02.2024	30.6	29.7	9.9	7.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
09.02.2024	35.8	31.5	8.5	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.02.2024	30.2	27.6	8.2	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
16.02.2024	36.8	32.9	9.7	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.02.2024	35.9	33.3	8.9	9.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
23.02.2024	33.7	25.5	8.1	8.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	30.2	25.5	8.1	7.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	36.8	33.3	10.3	9.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	34.0	30.2	9.2	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	36.7	33.2	10.2	9.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

Instruments Details:

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

Instruments Details:

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

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SUMMARY OF AMBIENT AIR QUALITY –FEBRUARY 2024

Pollutants	Description	Unit	Fire Station (Plant)-1	Sivaramapuram Village-2	Chandra sekharapuram Village-3	Varakavipudi Village-4
PM ₁₀	Minimum	µg/m ³	26.3	30.6	25.3	30.2
	Maximum		45.6	45.6	44.5	36.8
	Average		36.0	36.3	33.9	34.0
	98 Percentile		45.3	45.3	43.3	36.7
PM _{2.5}	Minimum		25.6	25.3	22.7	25.5
	Maximum		39.5	35.9	35.1	33.3
	Average		31.3	32.2	30.8	30.2
	98 Percentile		38.9	35.9	34.9	33.2
SO ₂	Minimum		10.9	10.5	8.5	8.1
	Maximum		17.5	16.6	10.6	10.3
	Average		13.9	13.5	9.4	9.2
	98 Percentile		17.4	16.5	10.5	10.2
NO _x	Minimum		8.3	8.3	7.6	7.3
	Maximum		10.6	9.9	9.5	9.7
	Average		9.3	9.2	8.8	8.4
	98 Percentile		10.5	9.9	9.5	9.6

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TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – March 2024

Location-1: Fire Station (Plant Site)

Sample Registration Date: 30.03.2024

Issue Date: 05.04.2024

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

Sample collected person details: S. Ganesh

TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				mg/m^3	$\mu\text{g}/\text{m}^3$				ng/m^3		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	Pb	O ₃	NH ₃	C ₆ H ₆	BaP	As	Ni
07.03.2024	41.6	38.2	13.6	9.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.03.2024	32.2	27.5	18.2	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.03.2024	28.1	25.6	15.9	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.03.2024	34.4	31.3	10.1	7.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.03.2024	33.3	29.7	12.5	9.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.03.2024	38.5	36.1	16.8	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.03.2024	42.7	34.4	19.7	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.03.2024	35.9	32.8	11.3	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	28.1	25.6	10.1	7.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	42.7	38.2	19.7	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	35.8	32.0	14.8	9.0	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	42.5	37.9	19.5	9.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

Instruments Details:

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

Instruments Details:

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

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

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TEST REPORT

ISSUED TO:

M/s. SEIL ENERGY INDIA LIMITED PROJECT-2

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – March 2024

Location-2: Sivarampuram village

Sample Registration Date: 30.03.2024

Issue Date: 05.04.2024

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

Sample collected person details: S. Ganesh

TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				mg/m^3	$\mu\text{g}/\text{m}^3$				ng/m^3		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	Pb	O ₃	NH ₃	C ₆ H ₆	BaP	As	Ni
07.03.2024	36.1	34.6	13.2	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.03.2024	38.5	36.3	11.8	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.03.2024	31.9	28.2	15.6	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.03.2024	42.2	39.5	18.3	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.03.2024	33.3	31.4	16.9	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.03.2024	29.8	25.7	10.1	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.03.2024	35.4	32.1	14.7	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.03.2024	37.6	34.9	17.5	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	29.8	25.7	10.1	8.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	42.2	39.5	18.3	9.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	35.6	32.8	14.8	9.0	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	41.7	39.1	18.2	9.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	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

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

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TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – March 2024

Location-3: Chandrasekharapuram Village

Sample Registration Date: 30.03.2024

Issue Date: 05.04.2024

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

Sample collected person details: S. Ganesh

TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				mg/m^3	$\mu\text{g}/\text{m}^3$				ng/m^3		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	Pb	O ₃	NH ₃	C ₆ H ₆	BaP	As	Ni
07.03.2024	35.2	31.8	9.6	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.03.2024	29.5	25.3	8.5	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.03.2024	33.4	29.6	8.1	9.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.03.2024	27.9	24.5	9.3	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.03.2024	34.3	32.9	8.4	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.03.2024	29.6	27.1	9.2	8.4	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.03.2024	26.8	23.4	8.8	8.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.03.2024	38.1	35.2	9.7	9.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	26.8	23.4	8.1	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	38.1	35.2	9.7	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	31.9	28.7	9.0	8.7	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	37.7	34.9	9.7	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

Instruments Details:

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

Instruments Details:

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

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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

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





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

TEST REPORT

ISSUED TO:

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

Discipline: Chemical

Group: Atmospheric Pollution

Product: Ambient Air Quality Monitoring – March 2024

Location-4: Varakavipudi Village

Sample Registration Date: 30.03.2024

Issue Date: 05.04.2024

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

Sample collected person details: S. Ganesh

TEST RESULT

Date Of Sampling	$\mu\text{g}/\text{m}^3$				mg/m^3	$\mu\text{g}/\text{m}^3$				ng/m^3		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	Pb	O ₃	NH ₃	C ₆ H ₆	BaP	As	Ni
07.03.2024	31.6	27.2	9.2	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
08.03.2024	39.4	35.5	8.5	8.1	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
14.03.2024	25.9	22.1	7.6	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
15.03.2024	33.3	28.6	8.1	7.9	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
21.03.2024	28.5	26.4	8.7	8.8	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
22.03.2024	24.2	19.8	9.2	9.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
28.03.2024	32.7	29.3	8.3	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
29.03.2024	23.3	21.7	9.4	8.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Min	23.3	19.8	7.6	7.2	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Max	39.4	35.5	9.4	9.6	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
Avg.	29.9	26.3	8.6	8.3	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
98 Percentile	38.5	34.6	9.4	9.5	<1.5	<0.04	<5	<5	<2	<0.5	<1	<10
NAAQ Standards	100	60	80	80	2.0	1.0	100	400	5.0	1.0	6.0	20

Instruments Details:

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

Instruments Details:

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

K.S.Laj
Verified by



DA
Authorized by
Managing Director

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

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SUMMARY OF AMBIENT AIR QUALITY –MARCH 2024

Pollutants	Description	Unit	Fire Station (Plant)-1	Sivaramapuram Village-2	Chandra sekharapuram Village-3	Varakavipudi Village-4
PM ₁₀	Minimum	µg/m ³	28.1	29.8	26.8	23.3
	Maximum		42.7	42.2	38.1	39.4
	Average		35.8	35.6	31.9	29.9
	98 Percentile		42.5	41.7	37.7	38.5
PM _{2.5}	Minimum		25.6	25.7	23.4	19.8
	Maximum		38.2	39.5	35.2	35.5
	Average		32.0	32.8	28.7	26.3
	98 Percentile		37.9	39.1	34.9	34.6
SO ₂	Minimum		10.1	10.1	8.1	7.6
	Maximum		19.7	18.3	9.7	9.4
	Average		14.8	14.8	9.0	8.6
	98 Percentile		19.5	18.2	9.7	9.4
NO _x	Minimum		7.8	8.2	7.9	7.2
	Maximum		9.9	9.9	9.5	9.6
	Average		9.0	9.0	8.7	8.3
	98 Percentile		9.8	9.8	9.5	9.5

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SEIL Project-2 Environment Expenditure			
S.No	Area	Particulars	Expenses in Rs.
1	CHP	Operations (CHP)	₹ 22,600,000
2		Mechanical Maintnenace	₹ 1,235,510
3		Electrical Maintnenace	₹ 864,520
4		Coal Yard Sprinklers	₹ 2,740,000
5		DFDS System	₹ 470,000
6	AHP	Operations	₹ 7,914,000
7		Mechanical Maintnenace	₹ 1,321,000
8		Electrical Maintnenace	₹ 233,588
9		C&I Maintnenance	₹ 4,400,000
10	Others	Green Belt	₹ 10,150,000