MOXIE POWER GENERATION LIMITED

MPGL/ENV/2024 -25/21 November 27, 2024

To

The Director
Ministry of Environment, Forest & Climate Change,
Paryavaran Bhavan,
CGO Complex, Lodhi Road,
New Delhi – 110 003.

Dear Sir,

Sub: Submission of Half yearly MoEF & CC Clearances Compliance Report for the period April 2024 to September 2024 – Reg.

Ref: 1.Environment Clearance No.J-13011/41/2008-IA.II(T) dated 05.05.2009
2.Coastal Regulation Zone Clearance No. 11/32/2009-IA.III dated 10.08.2009
3.MoEF office memorandum No.F.No.J-13012 /8/2009-IA.II(T) dated 11.11.2020

This has reference to the captioned subject and cited references; we are herewith enclosing the Compliance Report of Environmental Clearance, Coastal Regulation Zone Clearance and MoEF office memorandum for the period April 2024 to September 2024 of Moxie Power Generation Ltd **(formerly Coastal Energen Pvt ltd),** 2 x 600 MW Thermal Power Plant, Tuticorin.

This is for your kind information and records.

மாவட்ட சுற்றுச் சூழல் பொறியாளர் தூத்துக்குடி
18 DEC 2024
தமிழ்நாடு மாசு கட்டுப்பாடு வாரியம்

Thanking You
For **MOXIE POWER GENERATION LIMITED**

MOXIE POWER GENERATION LIMITED ★ Melamarudur Tuticorin

MK Parameswaran
Station Head

Copy to: 1. Director (S), MoEF &CC, Regional Office (South Eastern Zone), Chennai – 600 003.
2. Central Pollution Control Board, Chennai – 600 058.
3. District Environmental Engineer, TNPCB, Tuticorin – 628002.

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SIX MONTHLY COMPLIANCE REPORT OF ENVIRONMENTAL & CRZ CLEARANCES

2X600 MW COAL BASED THERMAL POWER PLANT

at

Melamarudur Village, Ottapidaram Taluk,
Tuticorin – 628 105
Tamil Nadu

Submitted to:

Ministry of Environment, Forest and Climate Change
Government of India

Central Pollution Control Board
Ministry of Environment, Forest & Climate Change
(Govt of India)

TAMIL NADU POLLUTION CONTROL BOARD

Submitted By:

Moxie Power Generation Limited

PERIOD: APRIL 2024 –SEPTEMBER 2024

Ministry of Environment Forest & Climate Change Clearance Compliance

COMPLIANCE TO THE CONDITIONS LAID BY MoEF VIDE ENVIRONMENTAL CLEARANCE No.J-13011/41/2008-IA.II (T) dated 10.12.2008

Period: April 2024 to September 2024

Sl.No.	CONDITIONS STIPULATED BY MoEF	COMPLIENCE
1	Environment clearance is subject to obtaining clearance under the wildlife (protection) Act, 1972 from the competent authority.	No Objection Certificate is obtained from principal Chief Conservator of Forests and chief wild life warden, Chennai vide Ref. No.WL5/74098/2007 dated 03.03.2009. As communicated by Principal Chief Conservator of Forest & Chief Wild Life Warden vide their Lr. No. Ref. No. WL5/7774/2013 dated 16.04.2016, we have applied online in the MOEF & CC web portal on 17th Oct 2017 for obtaining Wild Life Clearance from National Board for Wildlife and we are following. Awaiting Response from NBWL.
2	Environment clearance is subject to final order of the hon'ble court of India in the matter of Goa foundation vs union of India in writ petition (civil) no.460 of 2004 as may be applicable to this project.	Noted for Compliance.
3	The total land acquired shall not be more than 875 acres for all the activities / facilities of the power project put together.	Complied. The total land acquired is 875 acre.
4	Prior CRZ clearance for the activities / facilities to be located in the CRZ area shall be obtained before start of the project.	Complied. CRZ clearance received from MoEF vide No.11-32/2009-IA-III dated 10.08.2009.
5	Ash and sulphur content in the imported coal to be used in the project shall not exceed 12% and 1.5 % respectively.	Complied. Ash and Sulphur content in the imported coal has not exceed 12% and 1.5 % respectively.
6	A multi-flue stack of 275m height shall be provided with continuous online monitoring equipments for Sox, NOx and particulate (heavy metals like Hg, Cr, As, Pb periodically). Exit velocity of atleast 22 m/s shall be maintained.	Complied. Multi Flue Stack is provided with Continuous online monitoring analyzers for measuring SO_x, NO_x and SPM and heavy metals like Hg, Cr, As, Pb are being monitored periodically
7	High efficiency Electro static precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50mg/Nm3.	Complied. High efficiency ESPs has been installed and the particulate emission does not exceed 50mg/Nm3.
8	CFBC technology with lime injection having efficiency of SO2 removal atleast 90% shall be installed.	Not applicable MoEF clearance obtained for Sub Critical Pulverized fuel Boilers vide clearance No.J-13011/41/2008-IA.II(T) dated 05.05.2009
9	Space provision shall be made for flue gas de-sulphurisation (FGD) unit, if required ata later stage.	Complied. Necessary space provision made for FGD Unit.
10	Adequate dust extraction system such as cyclone /bag filters and water spray system in dusty area such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	Complied. ▪ Automatic water sprinklers provided in the coal storage yard. ▪ Closed conveyors provided for coal conveying ▪ Bag filters/ dust extraction system provided at all transfer points in the junction towers ▪ Ventilation system provided in all coal bunkers ▪ Bag filters provided in the ash silos ▪ Closed conveyors provided for bottom ash conveying

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11	Fly ash shall be collected in dry form and storage facility (silos) shall be provided 100% utilization of fly ash shall be achieved from day one. Unutilized fly ash in emergency and bottom ash shall be disposed of in the ash pond. Supernatant effluent from ash pond and leachates collected will be monitored for heavy metals (Hg, Cr, As, Pb etc.).	Complied. Fly Ash is collected in dry form and 100% utilization is being complied. There is no supernatant effluent generated from the ash pond as of now due to 100% ash utilization.
12	Ash pond shall be lined with HDPE lining. Adequate safety measure shall also be implemented to protect the ash dyke from getting breached.	Complied. Ash pond is lined with HDPE lining and Adequate safety measures are being taken to protect the ash dyke from getting breached.
13	Closed cycle cooling system with cooling towers as per the recommendations of chief wildlife warden shall be ensured.	Complied. Closed cycle cooling system with cooling towers is installed.
14	Continuous monitoring of coastal waters as per the recommendations of chief wildlife warden shall be ensured.	Complied. Continuous monitoring of coastal waters as per the recommendations of chief wildlife warden is being done.
15	Rain water harvesting shall be practiced. A detailed scheme for rain water harvesting to recharge the ground water aquifer shall be prepared in consultation with central ground water authority / state ground water and a copy of the same shall be submitted within three months to the ministry.	Storm water drains are already in place. Since, the existing ground water is more saline and not potable; recharging the storm water will not improve the existing ground water quality. Hence, the collected storm water is routed to nearby village pond for their domestic usage.
16	The treated effluents conforming to the prescribed standards only shall be discharged from cold water side in the sea. The temperature of the discharged effluents shall not exceed 5°C over and above the ambient water temperature of sea and it will be reduced to 0.5°C within 50m of the discharge point. The temperature of the discharge water shall be monitored continuously and records maintained.	▪ Cooling water blow down discharged from the cold water side of the induced draft cooling system. ▪ Dilution of discharge, using fresh sea water to reduce the temperature to 0.5^0 C within 50 m of the discharge point is being carried out. ▪ Temperature of the discharge water is being monitored continuously.
17	A sewage treatment plant shall be provided and the treated sewage conforming to the standards prescribed by SPCB shall be used for raising green belt/ plantation.	Complied. Sewage Treatment Plant is provided and functional at site premises. Treated water from STP is being used for gardening and Green belt development only.
18	Regular monitoring of ground water in and around the ash pond area shall be carried out, records maintained and 6 monthly reports shall be submitted to the regional office of this ministry.	Complied. Regular monitoring of ground water in and around the ash bund area is being carried out. Copy of the report is enclosed as Annexure - 3.
19	Greenbelt of adequate width shall be developed all around the plant area, other utilities and ash pond covering 270acres of area preferably with local species.	Complied. Greenbelt (Approximately 79,819 trees) of adequate width is developed all around the plant area, other utilities and ash bund covering 270 acres of land with local species. Latest Photos of the developed greenbelt is enclosed as **Annexure - 4.**
20	First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Complied First aid and sanitation arrangements were made for the drivers and other contract workers during construction phase.
21	Noise levels emanating from turbines, air compressors, steam leakage and other moving parts of the machine should be controlled in such a way that the ambient noise levels in the working environment do not exceed 75dBA. For people working in high noise area especially during maintenance phase or due to leakage of steam etc., if it is not possible to control noise by adopting	Complied. • Turbine & air compressors are provided with acoustic enclosures. • Provided silencer in safety valve • Provided earplugs and ear muffs to workers • Workers engaged in noisy areas are being periodically examined and their audiometric

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	engineering methods including acoustical treatment, noise barriers etc., requisite personal protective equipment like ear plugs/ ear muffs etc., shall be provided. Workers engaged in noisy areas such turbines, air compressors etc shall be periodically examined and their audiometric records maintained and should be treated for any hearing loss including shifting to non-noisy/less noisy areas.	records are being maintained and also shifted in rotational basis.
22	Regular monitoring of ground level concentration of SO2, NOx, SPM, RSPM and mercury 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. 6 monthly reports shall be submitted to the regional office of this ministry at Bangalore.	Complied. The monitoring of ground level concentration data for the period from April 2024 to September 2024 is enclosed as Annexure - 1. The Six months report on Environment monitoring is being submitted to Regional office of MoEF& CC on regular basis.
23	Adequate funds shall be ear marked for the activities under CSR and details of these activities shall also be submitted to the regional office of the ministry, SPCB and the ministry.	Complied. Separate funds earmarked for implementation of CSR activities. Details of CSR activities carried out during April 2024 to September 2024 are enclosed as **Annexure - 5.**
24	Storage facilities for this liquid fuel such as LDO and HFO/LSHS shall be made in the plant area where risk is minimum to the storage facilities. Disaster management plan shall be prepared to meet any eventuality in case of an accident taking place. Mock drills shall be conducted regularly and based on the same, modification required, if any, shall be incorporated in the DMP.	Complied. LDO/HFO storage tanks are provided with dyke wall, automatic foam and water sprinkler system. Disaster Management plan is available and regular mock drills are being carried out.
25	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 at Bangalore.	Complied. Automatic water sprinkler system provided in the coal stock yard
26	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/ municipal area /gram panchayat concerned and on the company's website 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 forest at http://envfor.nic.in.	Complied
27	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Complied during construction phase.

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28	A separate environment monitoring cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Complied. Environment Cell with qualified staffs are in place for the Environmental monitoring, Marine monitoring, Green belt development activities, etc.
29	Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to this ministry, its regional office at Bangalore, CPCB and SPCB.	Complied. Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards is being submitted to this ministry, its regional office at Bangalore, CPCB and SPCB.
30	Regional office of the ministry of environment & forests located at Bangalore will monitor the implementation of the stipulated conditions. A complete set of documents plan along with the additional information submitted from time to time shall be forwarded to the regional office for their use during monitoring.	Complied. Compliance status of the all the stipulated conditions in the environment clearance letter is being communicated from time to time to the Regional office of the ministry of environment & forests located at Bangalore.
31	Adequate funds shall be allocated for implementation of environmental protection measures along with item-wise breakup. These cost 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.	Complied during construction phase.
32	Full cooperation shall be extended to the scientists/officer from the ministry / regional office of ministry at Bangalore/ the CPCB the SPCB who would be monitoring the compliance of environmental status.	Complied. Full Co-operation is being extended to the scientists/officer from the ministry / regional office of ministry at Bangalore/ the CPCB the SPCB who visits the plant for monitoring.
33	The project authorities shall inform the regional 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.	Complied. UNIT-01 - Date of Commissioning - 02/12/2014 UNIT-02 - Date of Commissioning - 02/01/2016
34	Compliance status of the stipulated conditions shall be displayed in website of the industry/company.	The Compliance status of stipulated conditions is uploaded in the company website. Screen shot of company website is attached as **Annexure - 2.**

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COMPLIANCE TO THE CONDITIONS LAID BY MoEF VIDE ENVIRONMENTAL CLEARANCE No.J-13011/41/2008-IA.II(T) dated 05.05.2009

Period: April 2024 to September 2024

Sl.No.	CONDITIONS STIPULATED BY MoEF	COMPLIENCE
1	Regular monitoring of ground water in and around the ash pond area including heavy metals (Hg,Cr,As,Pb) shall be carried out, records maintained and six monthly reports shall be furnished to the Regional Office of this Ministry. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project.	Complied. Regular monitoring of ground water in and around the ash bund area is being carried out regularly. Analysis report for the period of April 2024 to September 2024 is attached as **Annexure -3.**
2	Regular monitoring of ground level concentration of SO2, NOx,Hg,SPM and RSPM 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 so monitored shall also be put on the website of the company.	Complied. The monitoring of ground level concentration data for the period April 2024 to September 2024 is enclosed as Annexure - 1 and the same is uploaded in the company website. Screen shot of company website is attached as **Annexure - 2.**
3	Space for FGD shall be provided at planning stage for the units.	Complied. Necessary space provision made for FGD Unit.
4	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, ZilaParisad/Municipal Corporation, Urban local Body and the Local NGO, is 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
5	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the man gate of the company in the public domain.	Complied. The Six months report on Ambient Air Quality monitoring are being submitted to Regional office of MoEF / TNPCB on regular basis and the same is uploaded in the company website. Print Screen of company website is attached as **Annexure - 2.** Online scrolling Display System provided at the main gate of the company.
6	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.	Complied. The Six monthly Compliance report are being submitted to Regional office of MoEF& CC /CPCB/ TNPCB on regular basis.

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COMPLIANCE TO THE ADDITIONAL CONDITIONS LAID BY MoEF VIDE OFFICE MEMORANDUM No.J-11013/41/2006-IA.II(I) dated 06.04.2011

Period: April 2024 to September 2023

Sl.No.	CONDITIONS STIPULATED BY MoEF	COMPLIENCE
1	Continuous monitoring of stack emissions as well as ambient air quality (as per notified standards) shall be carried out and continuous records maintained. Based on the monitored data, necessary corrective measures as may be required from time to time shall be taken to ensure that the levels are within permissible limits. The results of monitoring shall also be submitted to the respective Regional Office of MoEF regularly. Besides, the results of monitoring will also be put on the website of the company in the public domain.	Continuous Stack emission and ambient air quality monitoring are being carried out and records are being maintained. The monitored data for the period of April 2024 to September 2024 is enclosed as **Annexure - 1.** The results are well within the prescribed norms. The Six months report on Ambient Air Quality monitoring are being submitted to Regional office of MoEF& CC on regular basis and the same is uploaded in the company website. Screen Shot of company website is attached as **Annexure - 2.**
2	The six monthly monitoring report as well as the monitored data on various parameters as stipulated in the environment clearance conditions shall be put on the website of the company and also regularly updated. The monitored data shall also be submitted to respective State Pollution Control Board / UTPCCs and the Regional office of MoEF.	The Six months report on Ambient Air Quality monitoring are being submitted to Regional office of MoEF& CC / TNPCB on regular basis and the same is uploaded in the company website. Screen Shot of company website is attached as **Annexure - 2.**
3	The ambient air quality data as well as the stack emission data will also be displayed in public domain at some prominent place near the main gate of the company and updated in real time.	Complied. Online scrolling Display System provided at the main gate of the company.

Coastal Regulation Zone Clearance Compliance

COMPLIANCE TO THE CONDITIONS LAID BY MoEF VIDE CRZ CLEARANCE No.11/32/2009-IA.III dated 10.08.2009

Period: April 2024 to September 2024

Sl.No.	CONDITIONS STIPULATED BY MoEF	COMPLIENCE
Specific Conditions :		
1.	All the Conditions stipulated by Tamilnadu Coastal Zone Management Authority vide letter dated 03.04.2009 shall be strictly complied with.	All the Conditions stipulated by Tamilnadu Coastal Zone Management Authority vide letter dated 03.04.2009 is Complied. Compliance Status enclosed as **Annexure - 6**
2.	Sufficient dilution shall be carried out to meet the ambient parameters within 50m distance.	Complied. Sufficient dilution is being carried out to meet the ambient parameters within 50 m distance.
3.	Independent monitoring shall be undertaken through a authorized agency.	Complied. Comprehensive Marine Environmental Monitoring is being carried out through M/s.Suganthi Devadasan Marine Research Institute, Thoothukudi, one of the identified institutions for coastal baseline studies and monitoring by the Tamil Nadu State Coastal Zone Management Authority.
4.	Filters in the way of extruders shall be provided at the intake point to prevent fishes entering in to the system. Fish culture shall be developed at the outfall point.	Complied. Fish Cage culture installed and monitoring is in progress. Report on Fish Cage culture monitoring is covered in **Annexure -7.**
5.	Regular monitoring especially for temperature and salinity shall be carried out at disposal site and six monthly reports shall be submitted to the ministry.	Complied. Monitoring data for the period April 2024 to September 2024 is enclosed as **Annexure - 7.**
6.	All the recommendations of EIA and DMP shall be strictly complied with	All the recommendations of EIA and DMP is complied
7.	There shall be no reclamation in Coastal Regulation Zone area.	Complied. No Reclamation done at CRZ area.
8.	The pipeline shall be buried at least 2m depth in the onshore area and 4 mts in the offshore area. Necessary permission with regard to the pipeline burial and laying shall be obtained from concerned authorities to ensure that the pipeline route does not fall in the navigation channel.	Complied. All the requirements has been fulfilled and necessary permission has been obtained with regard to the pipeline burial.
9.	The Project shall be implemented in such a manner that there is no damage whatsoever to the mangroves/other sensitive coastal ecosystems. If any damage to mangroves is anticipated / envisaged as a result of project activities then the clearance shall stand cancelled and the proponents shall seek fresh approval from the Ministry.	Not applicable. No mangroves are found in the project site.
10.	Consent shall be obtained from the Tamilnadu Pollution Control Board for the disposal of effluent into sea. The effluent shall meet the standards prescribed by Tamil Nadu Pollution Control Board before disposal.	Complied. Consents are obtained from TNPCB and being ensured that the effluent meet the standards prescribed by TNPCB before disposal.
11.	A continuous and comprehensive post - project marine quality monitoring programme shall be taken up. This shall include monitoring of water quality, sediment quality and biological characteristics and report	Complied. Monitoring data for the period April 2024 to September 2024 is enclosed as **Annexure - 7.**

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	submitted every 6 months to Ministry's Regional Office at Bangalore.	
12.	It shall be ensured that there is no displacement of people, houses or fishing activity as a result of the project.	Complied. No displacement of people, houses or fishing activity is involved.
13.	There shall be display boards at critical locations along the pipeline viz. road/rail/river crossings giving emergency instructions. This will ensure prompt information regarding location of accident during any emergency. Emergency information board shall contain emergency instructions in addition to contact details. Proper lighting shall be provided all along the road.	Complied.
14.	There shall be no withdrawal of ground water in CRZ, area, for this project.	Complied. No Withdrawal of Ground water is being done for the project.
15.	Necessary provisions shall also be made to develop a nursery for mangroves and the area should be demarcated specifically for the development of mangroves within the complex.	• The project site is not suitable for the development of mangroves as mangroves requires special environmental factors including fresh water sources along with marine (i.e) Esturain conditions. • Hence, this condition is not applicable to us.
16.	Arrangement for treatment of liquid effluents shall be made so as to ensure that the untreated effluents are not allowed to be discharged into the sea/marine water.	Complied. Effluent Treatment Plant is provided in the Main plant and is in operation.
17.	Appropriate safety devices such as masks shall be provided for use by the workers at the site and their usage by them shall be ensured.	Complied and the same is being ensured continuously.
18.	Necessary provisions shall be made for emergency evacuation during natural and man-made disasters like floods, cyclone, tsunami and earthquake etc.	Complied. Adequate Provisions made for emergency evacuation during Natural and manmade disasters.
19.	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 case, crèche etc. The house may be in the form of temporary structures to be removed after the completion of the project.	Complied. Necessary Infrastructure were provided during Project Phase.
20.	A First Aid Room will be provided in the project both during construction and operation of the project.	Complied. First Aid Center with ambulance facilities available at site on 24 x 7 basis.
21.	All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.	Complied.
22.	Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.	Complied.
23.	Any Hazardous Waste Generated During Construction Phase, Should Be Disposed Off As Per Applicable Rules And Norms With Necessary Approvals Of The Andhara Pradesh Pollution Control Board.	No Hazardous waste generated during Construction Phase.
24.	The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environment (protection) Rules	Complied during Construction phase.

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	prescribed for air and noise emission standards.	
25.	The Diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from Chief Controller of Explosives shall be taken.	Complied during Construction phase.
26.	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.	Complied during Construction Phase.
27.	Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/ TNPCB.	Complied during Construction Phase.
28.	Storm water control and its-re-use as per CGWB and BIS standards for various applications.	Not applicable.
29.	Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings.	Complied during Construction Phase.
General Conditions:		
1.	The construction of the structures should be undertaken as per the plans approved by the concerned local authorities/local administration, meticulously conforming to the existing local and central rules and regulations including the provisions of Coastal Regulation Zone Notification dated 19.02.1991 and the approved Coastal Zone Management Plan of Tamil Nadu.	Complied during Construction Phase.
2.	In the event of any change in the project profile a fresh reference shall be made to the Ministry of Environment and Forests.	No Change in Project Profile
3.	This Ministry reserves the right to revoke this clearance, if any, of the conditions stipulated are not complied with to the satisfaction of this Ministry.	Agreed for Compliance.
4.	This Ministry or any other competent authority may stipulate any additional conditions subsequently, if deemed necessary, for environmental protection, which shall be complied with.	Agreed for Compliance.
5.	Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.	Complied. Noise Levels are within the Permissible Limits
6.	The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.	Complied. Landscape developed in front of Sea water Pump house.
7.	The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.	Not applicable.
8.	The sand dune, if any, on the site should not be disturbed in any way.	No sand dune exists.
9.	The mangroves, if any, on the site should not be disturbed in any way.	No mangroves exists.
10.	The environment safeguards contained in the EIA Report should be implemented in letter and spirit.	Complied. The environment safeguards contained in the EIA Report has been

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		implemented.
11.	A separate Environment Management Cell with suitably qualified staff to carry out various environment related Executive who will report directly to the Chief Executive of the Company.	Complied. Environment Cell with qualified staffs are in place for the Environmental monitoring, Marine monitoring, Green belt development activities, etc.
12.	The funds earmarked for environment protection measures shall be maintained in a separate account and there shall be no diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards shall be reported to this Ministry's Regional Office to Bangalore.	Fund for environmental protection measures is being allotted and no diversification of funds being done.
13.	In case of deviation or alteration in the project including the implementing agency, a fresh reference shall be made to this Ministry for modification in the clearance conditions or imposition of new one for ensuring environmental projection. The project proponents shall be responsible for implementing the suggested safeguard measures.	No Deviation/Alteration in the Project.
14.	This Ministry reserves the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of this Ministry.	Agreed.
15.	Full support should be extended to the officers of this Ministry's Regional Office at Bangalore and the offices of the Central and State Pollution Control Board by the project proponents during their inspection for monitoring purposes, by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.	Agreed and being Complied.
16.	These Stipulations Would Be Enforced Among Others Under The Provisions Of Water (Prevention And Control Of Pollution) Act, 1974 The Air (Prevention And Control Of Pollution) Act 1981, The Environment Municipal Solid Wastes (Management and Handling) Rules, 2000 including the amendments and rules made thereafter.	Agreed.
17.	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) act, 1972 etc, shall be obtained, as applicable by project proponents from the respective competent authorities.	Complied. All other applicable statutory clearances has been Obtained.
18.	The project proponent should advertise in at least two local Newspapers widely circulated in the regions, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letter are available with the Tamil Nadu State Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at Http://www.envfor.nic.in. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Bangalore.	Complied.
19.	Any appeal against this Environmental Clearance shall lie with the national Environment Appellate Authority, if preferred, within a period of 30 days as prescribed under section 11 of the National Environment Appellate Act, 1997.	Noted.

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Melamarudur
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20.	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, ZillaParisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Complied.
21.	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, So2, Nox (ambient levels as well as stack emissions) or critical sectoral parameters, indicated ror the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	The Compliance status of stipulated conditions is uploaded in the company website. Screen Shot of company website is attached as Annexure - 2.
22.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored date (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	Complied. Submitting the six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored date to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.
23.	The environmental 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 MoEF by e-mail.	Complied.

MOXIE POWER GENERATION LIMITED
Melamarudur
Tuticorin

ANNEXURE - 1

MOXIE POWER GENERATION LIMITED

MPGL/ENV/TNPCB/2024-25/22 Date: 27th November 2024

To
The Director
Ministry of Environment, Forest & Climate Change,
Paryavaran Bhavan,
CGO Complex, Lodhi Road,
New Delhi – 110 003.

Dear Sir,

SUB: Change of Control of Coastal Energen Private Limited under CIRP Process after NCLT Order – Reg.

REF: Order dated August 30, 2024 in respect of application vide IA(IBC)/2431(CHE)/2023 in IBA/757/2019 pronounced by the Hon'ble NCLT, Division Bench-1, Chennai

Dear Sir,

This is in reference to the Hon'ble National Company Law Tribunal, Division Bench-1, Chennai ("NCLT"), order dated August 30, 2024, sanctioning the Resolution Plan for acquisition of Coastal Energen Private Limited ("CEPL"), as submitted by the successful resolution applicant, being consortium of Dickey Alternative Investment Trust ("Dickey") and Adani Power Limited ("APL") through Moxie Power Generation Limited ("MPGL" or the "SPV", in which Dickey holds 51% and APL holds 49% of the total equity of the SPV) under the Insolvency and Bankruptcy Code, 2016, as part of the Corporate Insolvency Resolution Process ("CIRP") for CEPL;

Pursuant to aforesaid Resolution Plan, as sanctioned by the NCLT contains inter alia about amalgamation of CEPL with MPGL under the Scheme of Amalgamation (the "Scheme") between Coastal Energen Private Limited ("CEPL" or the "Transferor Company"), and Moxie Power Generation Limited ("MPGL" or the "Transferee Company"), being a part of the Resolution Plan;

In view of above the Scheme has become effective as on August 31, 2024, resulting in the amalgamation of the Transferor Company, with the Transferee Company, and the dissolution of CEPL without winding up and without any further act or deed, with effect from August 31, 2024;

In view of the above, we request you to kindly note the above changes for all future communications. All future communication may be addressed in the name of Moxie Power Generation Limited in place of Coastal Energen Pvt. Limited.

Thanking You,
Yours faithfully,
For MOXIE POWER GENERATION LIMITED

MK Parameswaran
Station Head

Moxie Power Generation Limited
"Adani Corporate House"
Shantigram, Near Vaishno Devi Circle,
S. G. Highway, Khodiyar,
Ahmedabad-382421, Gujarat India
CIN: U35100TN2024PLC167065

Tel +91 79 2656 7555
Fax +91 79 2555 7177

Registered Office: "Ramcon Fortuna Towers 4th, Kodambakkam High Road, Nungambakkam High Road, Chennai – 600034

IN THE NATIONAL COMPANY LAW TRIBUNAL
DIVISION BENCH (COURT– I) CHENNAI

ATTENDANCE CUM ORDER SHEET OF THE HEARING
HELD ON **30.08.2024** THROUGH VIDEO CONFERENCING

PRESENT: **HON'BLE SHRI. SANJIV JAIN, MEMBER (JUDICIAL)**
HON'BLE SHRI. VENKATARAMAN SUBRAMANIAM, MEMBER (TECHNICAL)

IN THE MATTER OF : State Bank of India
Vs
Coastal Energen Pvt Ltd

MAIN PETITION NUMBER : IBA/757/2019

(IA/MA) APPLICATION NUMBERS

IA/2431(CHE)/2023

ORDER

IA(IBC)/2431(CHE)/2023

Present: Ld. Counsel Shri. T. Ravichandran for the RP.

Ld. Counsel Shri. Sandeep Singhi along with Counsel Shri. P. Giridharan for the SRA.

Ld. Counsel Shri. Rangasayee for the Objectors.

Ld. Counsel Ms. Srideepa Bhattacharyaa for the CoC.

Vide separate order pronounced in Open Court, the resolution plan is approved.

IA/2431(CHE)/2023 is **disposed of**.

The Registry is directed to send e-mail copy of the order forthwith to all the parties and their Learned Counsel for information and for taking necessary steps.

Sd/-

(VENKATARAMAN SUBRAMANIAM)
MEMBER (TECHNICAL)

Sd/-

(SANJIV JAIN)
MEMBER (JUDICIAL)

MG

MOXIE POWER GENERATION LIMITED

2 X 600 MW THERMAL POWER PLANT

CONTINUOUS AMBIENT AIR QUALITY MONITORING REPORT

Daily Average from 01.04.2024 to 30.04.2024

Date	STATION-1 (Near Main Office)					STATION-2 (Near CHP)					STATION-3 (Near Ash Pond)					STATION-4 (Sea Water Pump House)				
	SO2	NOX	PM10	PM2.5	CO	SO2	NOX	PM10	PM2.5	CO	SO2	NOX	PM10	PM2.5	CO	SO2	NOX	PM10	PM2.5	CO
	80	80	100	60	02	80	80	100	60	02	80	80	100	60	02	80	80	100	60	02
	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³
1-Apr-24	6.0	10.0	90.0	36.0	0.7	7.0	13.0	36.0	6.0	0.8	10.0	11.0	24.0	8.0	0.4	10.0	10.0	53.0	32.0	0.7
2-Apr-24	6.0	11.0	75.0	24.0	0.7	8.0	14.0	61.0	9.0	0.8	10.0	11.0	41.0	10.0	0.4	10.0	10.0	61.0	35.0	0.6
3-Apr-24	6.0	10.0	88.0	26.0	0.7	8.0	14.0	55.0	9.0	0.6	10.0	11.0	29.0	9.0	0.3	10.0	10.0	61.0	36.0	0.7
4-Apr-24	6.0	10.0	84.0	21.0	0.7	8.0	14.0	46.0	7.0	0.7	10.0	10.0	36.0	9.0	0.4	10.0	10.0	58.0	35.0	0.5
5-Apr-24	5.0	11.0	79.0	33.0	0.8	8.0	13.0	62.0	8.0	0.6	10.0	8.0	29.0	9.0	0.4	10.0	10.0	53.0	31.0	0.8
6-Apr-24	5.0	10.0	85.0	31.0	0.7	11.0	12.0	60.0	7.0	0.6	10.0	8.0	29.0	10.0	0.4	10.0	10.0	66.0	35.0	0.7
7-Apr-24	6.0	11.0	109.3	16.0	0.8	11.0	13.0	56.0	8.0	0.7	10.0	8.0	36.0	13.0	0.5	10.0	10.0	77.0	35.0	0.7
8-Apr-24	6.0	9.0	98.0	28.0	0.8	13.0	13.0	74.0	9.0	0.8	11.0	8.0	39.0	12.0	0.4	10.0	10.0	76.0	41.0	0.8
9-Apr-24	6.0	7.0	87.0	19.0	0.8	12.0	11.0	52.0	7.0	0.8	10.0	8.0	41.0	9.0	0.4	9.0	10.0	56.0	37.0	0.7
10-Apr-24	6.0	7.0	95.0	25.0	0.7	10.0	11.0	43.0	11.0	0.2	10.0	8.0	31.0	13.0	0.3	9.0	10.0	67.0	53.0	0.7
11-Apr-24	5.0	8.0	67.0	13.0	0.8	8.0	9.0	44.0	5.0	0.6	8.0	7.0	19.0	6.0	0.3	8.0	9.0	46.0	37.0	0.3
12-Apr-24	6.0	9.0	56.0	21.0	0.7	9.0	10.0	31.0	7.0	0.4	9.0	9.0	24.0	9.0	0.3	9.0	10.0	43.0	32.0	0.6
13-Apr-24	6.0	7.0	94.0	26.0	0.8	9.0	12.0	34.0	4.0	0.4	11.0	8.0	16.0	5.0	0.3	10.0	10.0	39.0	25.0	0.2
14-Apr-24	7.0	7.0	94.0	34.0	0.9	9.0	12.0	49.0	8.0	0.3	11.0	8.0	20.0	8.0	0.3	10.0	10.0	50.0	38.0	0.4
15-Apr-24	6.0	7.0	64.0	26.0	0.9	8.0	12.0	36.0	6.0	0.4	10.0	11.0	16.0	7.0	0.3	10.0	10.0	40.0	36.0	0.3
16-Apr-24	6.0	8.0	53.0	22.0	0.8	8.0	13.0	30.0	5.0	0.3	11.0	20.0	19.0	5.0	0.4	10.0	10.0	41.0	86.0	0.4
17-Apr-24	6.0	7.0	86.0	21.0	0.6	9.0	14.0	49.0	4.0	0.4	11.0	24.0	21.0	7.0	0.3	10.0	10.0	50.0	22.0	0.3
18-Apr-24	4.0	6.0	74.0	30.0	0.5	10.0	13.0	61.0	6.0	0.2	11.0	20.0	31.0	9.0	0.3	10.0	10.0	59.0	30.0	0.3
19-Apr-24	6.0	5.0	72.0	32.0	0.4	9.0	14.0	71.0	11.0	0.2	11.0	21.0	34.0	11.0	0.4	10.0	10.0	62.0	47.0	0.4
20-Apr-24	6.0	5.0	53.0	34.0	0.5	9.0	15.0	66.0	12.0	0.2	11.0	19.0	33.0	12.0	0.4	10.0	10.0	67.0	48.0	0.8
21-Apr-24	6.0	5.0	52.0	43.0	0.5	9.0	15.0	64.0	12.0	0.2	11.0	19.0	34.0	13.0	0.4	10.0	10.0	75.0	47.0	0.4
22-Apr-24	4.0	5.0	61.0	45.0	0.6	9.0	16.0	81.0	11.0	0.2	11.0	18.0	35.0	14.0	0.3	11.0	10.0	76.0	69.0	0.3
23-Apr-24	5.0	5.0	58.0	41.0	0.5	9.0	14.0	60.0	11.0	0.2	11.0	16.0	25.0	10.0	0.4	11.0	10.0	61.0	42.0	0.4
24-Apr-24	6.0	5.0	63.0	12.0	0.5	9.0	14.0	41.0	12.0	0.1	11.0	16.0	34.0	10.0	0.4	11.0	10.0	76.0	47.0	0.4
25-Apr-24	6.0	5.0	59.0	38.0	0.5	8.0	14.0	62.0	9.0	0.4	8.0	12.0	32.0	12.0	0.4	11.0	10.0	68.0	43.0	0.4
26-Apr-24	5.0	6.0	44.0	26.0	0.4	8.0	15.0	69.0	10.0	0.4	5.0	11.0	51.0	16.0	0.4	10.0	10.0	75.0	44.0	0.6
27-Apr-24	7.0	8.0	97.0	32.0	0.5	7.0	14.0	54.0	9.0	0.4	5.0	8.0	51.0	15.0	0.5	9.0	10.0	63.0	23.0	0.6
28-Apr-24	7.0	8.0	73.0	30.0	0.5	6.0	14.0	55.0	8.0	0.3	5.0	9.0	27.0	8.0	0.3	6.0	10.0	50.0	32.0	0.8
29-Apr-24	7.0	8.0	88.0	26.0	0.5	7.0	13.0	48.0	7.0	0.2	5.0	9.0	28.0	8.0	0.3	6.0	10.0	62.0	37.0	0.8
30-Apr-24	7.0	8.0	85.0	28.0	0.4	6.0	17.0	37.0	7.0	0.2	5.0	9.0	26.0	7.0	0.4	6.0	10.0	50.0	29.0	0.8
Remarks:	Nil																			

For Moxie Power Generation Limited

MOXIE POWER GENERATION LIMITED ★ Melamarudur Tuticorin

MK Parameswaran
Station Head

MOXIE POWER GENERATION LIMITED

2 X 600 MW THERMAL POWER PLANT

CONTINUOUS AMBIENT AIR QUALITY MONITORING REPORT

Daily Average from 01.05.2024 to 31.05.2024

Date	STATION-1 (Near Main Office)					STATION-2 (Near CHP)					STATION-3 (Near Ash Pond)					STATION-4 (Sea Water Pump House)				
	SO2	NOX	PM10	PM2.5	CO	SO2	NOX	PM10	PM2.5	CO	SO2	NOX	PM10	PM2.5	CO	SO2	NOX	PM10	PM2.5	CO
	80	80	100	60	02	80	80	100	60	02	80	80	100	60	02	80	80	100	60	02
	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³
1-May-24	7.1	7.5	81.0	28.0	0.5	6.1	16.7	70.3	6.5	0.3	4.7	7.8	28.3	7.8	0.2	5.7	9.7	60.3	26.4	0.8
2-May-24	7.1	7.5	79.0	43.0	0.5	6.1	15.8	83.4	6.5	0.4	4.5	9.3	36.1	13.4	0.3	5.5	9.7	77.7	52.0	0.9
3-May-24	7.1	7.8	69.0	33.0	0.5	7.0	17.5	87.0	9.4	0.4	5.2	10.0	36.7	12.0	0.2	4.9	9.7	94.8	19.5	0.9
4-May-24	7.2	7.9	84.0	32.0	0.5	8.6	17.5	91.0	10.6	0.4	4.9	10.8	42.9	14.2	0.3	5.5	9.7	91.0	50.4	0.9
5-May-24	7.1	7.9	87.4	23.0	0.5	12.8	14.6	93.7	7.5	0.3	4.7	7.9	52.7	13.5	0.3	4.3	9.7	74.3	33.6	0.9
6-May-24	7.2	7.7	74.1	18.0	0.5	10.8	13.8	79.3	5.3	0.6	4.6	10.6	41.7	11.8	0.2	4.0	9.7	75.8	26.8	1.0
7-May-24	7.2	7.7	63.5	13.0	0.5	11.0	14.6	90.7	5.6	0.8	4.7	8.6	51.8	14.8	0.2	4.2	9.7	91.7	31.3	1.0
8-May-24	7.3	7.3	91.4	25.0	0.5	11.6	15.8	85.0	8.8	0.7	4.9	9.9	60.4	15.8	0.3	3.9	9.7	86.2	35.1	1.0
9-May-24	7.2	7.3	82.0	31.0	0.5	10.5	13.5	42.3	10.3	0.7	4.4	9.3	44.1	13.4	0.3	3.1	9.7	65.0	40.8	0.9
10-May-24	7.2	7.1	69.3	22.0	0.5	11.1	12.1	54.4	7.8	0.6	4.4	12.4	28.9	9.1	0.2	4.9	9.7	53.0	29.3	0.9
11-May-24	7.3	7.0	84.4	16.0	0.5	8.1	13.1	14.1	6.0	0.6	4.7	13.0	29.3	7.6	0.3	4.2	9.7	42.3	22.0	0.9
12-May-24	7.1	7.7	91.8	16.0	0.5	5.8	14.4	44.2	4.3	0.6	4.8	11.8	36.0	8.2	0.4	3.8	9.7	43.1	23.1	0.9
13-May-24	7.3	7.0	91.0	15.0	0.5	5.8	15.7	27.4	4.2	0.6	5.3	14.0	15.2	11.0	0.2	5.0	9.5	44.7	16.6	0.9
14-May-24	7.2	7.3	82.3	11.0	0.5	6.1	18.1	27.2	2.7	0.8	4.7	12.9	13.1	8.0	0.2	4.4	9.7	31.2	18.0	0.6
15-May-24	7.2	7.0	64.0	20.0	0.5	6.2	18.4	29.3	4.8	0.7	4.9	11.2	16.6	10.0	0.2	5.5	8.5	26.3	11.3	0.9
16-May-24	7.3	6.6	73.6	28.0	0.6	6.1	17.8	41.2	9.3	0.6	4.9	13.4	19.2	6.7	0.2	6.3	9.7	49.4	42.0	0.6
17-May-24	7.0	6.7	49.3	21.0	0.6	6.3	18.0	39.5	7.5	0.5	5.2	13.0	18.1	6.9	0.3	3.9	9.3	48.6	18.6	0.7
18-May-24	7.1	7.0	59.9	26.0	0.6	6.4	18.1	52.1	9.0	0.5	4.8	12.5	22.8	7.8	0.3	5.8	9.7	51.7	36.4	0.7
19-May-24	7.0	6.9	49.6	19.0	0.6	6.5	18.5	37.3	7.9	0.7	5.4	16.2	19.8	5.9	0.3	3.3	9.7	48.3	40.7	0.8
20-May-24	7.2	8.0	44.1	22.0	0.4	6.4	16.2	31.0	8.0	0.6	5.8	13.4	32.5	9.0	0.3	5.6	9.6	44.0	16.5	0.6
21-May-24	7.1	6.8	49.7	16.0	0.5	6.3	14.7	34.7	4.9	0.5	5.5	13.1	18.9	5.8	0.3	5.8	9.7	48.8	28.4	0.7
22-May-24	7.1	6.5	32.1	13.0	0.4	6.6	17.7	29.8	8.0	0.5	5.6	12.6	15.3	7.0	0.3	6.1	9.7	41.4	23.1	0.7
23-May-24	6.4	10.4	43.8	9.0	0.4	6.9	18.6	21.9	6.0	0.4	5.7	13.5	14.0	9.0	0.3	4.8	9.7	33.8	28.8	0.8
24-May-24	6.2	11.2	43.7	11.0	0.3	8.1	18.7	28.6	3.5	0.4	5.7	14.3	16.4	8.0	0.3	5.3	9.7	37.5	36.0	0.7
25-May-24	6.0	11.8	26.5	11.4	0.5	8.0	12.3	33.7	6.0	0.4	5.4	16.4	17.1	9.0	0.3	5.2	9.7	45.7	10.8	0.9
26-May-24	6.1	10.4	30.1	14.4	0.4	7.9	12.9	39.0	3.7	0.5	5.4	13.4	26.2	5.6	0.3	5.0	9.7	47.6	20.0	0.7
27-May-24	6.2	11.7	35.1	14.6	0.4	7.6	15.2	36.8	4.0	0.5	5.0	12.6	22.0	6.9	0.3	3.9	9.1	46.6	10.7	0.8
28-May-24	6.1	10.7	25.1	8.5	0.4	7.4	11.2	28.8	8.0	0.4	4.9	13.2	18.5	4.0	0.3	3.1	9.7	27.1	9.0	0.4
29-May-24	6.3	10.7	11.3	12.0	0.3	7.0	10.4	21.2	4.0	0.5	5.5	14.8	14.2	10.0	0.3	5.7	9.7	36.8	7.6	0.7
30-May-24	6.4	9.1	23.5	8.0	0.4	7.2	12.3	27.0	11.0	0.7	5.4	16.6	24.0	8.0	0.4	3.6	9.7	43.3	8.9	0.7
31-May-24	6.2	8.7	46.0	11.9	0.4	7.1	11.2	56.3	9.0	0.7	5.6	15.9	22.6	11.0	0.4	4.6	9.7	57.9	16.6	0.8
Remarks:	Nil																			

For Moxie Power Generation Limited

MK Parameswaran

MOXIE POWER GENERATION LIMITED ★ Melamarudur Tuticorin

MOXIE POWER GENERATION LIMITED

2 X 600 MW THERMAL POWER PLANT

CONTINUOUS AMBIENT AIR QUALITY MONITORING REPORT

Daily Average from 01.06.2024 to 30.06.2024

Date	STATION-1 (Near Main Office)					STATION-2 (Near CHP)					STATION-3 (Near Ash Pond)					STATION-4 (Sea Water Pump House)				
	SO2	NOX	PM10	PM2.5	CO	SO2	NOX	PM10	PM2.5	CO	SO2	NOX	PM10	PM2.5	CO	SO2	NOX	PM10	PM2.5	CO
	80	80	100	60	02	80	80	100	60	02	80	80	100	60	02	80	80	100	60	02
	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³
1-Jun-24	6.3	9.1	57.0	16.0	0.4	7.0	9.3	45.0	4.0	0.6	5.8	16.5	29.0	8.0	0.4	6.2	9.7	45.0	19.0	0.8
2-Jun-24	6.3	9.1	60.0	20.0	0.5	7.0	9.2	46.0	5.0	0.6	5.7	16.5	24.0	8.0	0.4	6.2	9.7	51.0	36.0	0.9
3-Jun-24	6.3	9.1	87.0	21.0	0.5	7.2	15.3	48.0	8.0	0.5	5.3	16.6	23.0	7.0	0.4	6.6	9.6	51.0	32.0	0.9
4-Jun-24	6.4	9.0	89.0	24.0	0.5	7.5	16.2	70.0	4.0	0.6	5.9	16.5	35.0	10.0	0.4	6.9	9.6	68.0	32.0	0.9
5-Jun-24	6.4	9.1	98.0	32.0	0.5	7.8	17.2	66.0	5.0	0.4	6.0	16.6	28.0	8.0	0.4	7.4	9.7	75.0	40.0	0.9
6-Jun-24	6.3	9.1	90.0	25.0	0.5	8.0	17.9	47.0	5.0	0.5	5.7	16.6	18.0	5.0	0.4	7.4	9.7	88.0	31.0	1.0
7-Jun-24	5.7	9.1	66.0	15.0	0.5	8.3	18.7	33.0	2.0	0.6	5.5	16.6	13.0	3.0	0.4	7.2	9.7	56.0	23.0	1.0
8-Jun-24	5.7	9.1	69.0	15.0	0.5	7.7	15.0	33.0	4.0	0.4	5.3	16.6	15.0	4.0	0.4	7.2	9.7	47.0	21.0	1.0
9-Jun-24	6.0	9.1	43.0	13.0	0.5	7.1	8.8	34.0	3.0	0.3	5.2	16.6	21.0	6.0	0.4	7.2	9.7	55.0	21.0	1.0
10-Jun-24	5.9	9.1	47.0	13.0	0.5	7.0	7.4	41.0	3.0	0.3	5.0	16.6	26.0	6.0	0.4	7.4	9.7	58.0	20.0	1.0
11-Jun-24	6.0	8.8	31.0	8.0	0.5	6.9	7.2	32.0	2.0	0.2	4.9	16.6	22.0	5.0	0.4	7.3	9.7	43.0	14.0	1.0
12-Jun-24	5.8	8.2	37.0	10.0	0.5	7.2	5.5	22.0	4.0	0.3	4.7	16.6	20.0	4.0	0.4	7.3	9.6	38.0	12.0	1.1
13-Jun-24	5.7	8.2	47.0	11.0	0.5	7.3	5.8	37.0	3.0	0.3	4.8	14.5	8.0	6.0	0.4	7.3	9.7	64.0	19.0	1.1
14-Jun-24	5.6	8.2	47.0	9.0	0.5	7.0	5.3	36.0	3.0	0.3	5.4	12.8	23.0	6.0	0.4	7.2	9.7	71.0	6.0	1.1
15-Jun-24	5.5	5.5	45.0	14.0	0.5	6.9	7.6	49.0	3.0	0.3	5.1	12.8	26.0	7.0	0.4	7.2	9.7	69.0	16.0	0.8
16-Jun-24	5.7	8.2	44.0	14.0	0.5	6.9	8.0	54.0	3.0	0.3	5.4	12.8	31.0	8.0	0.5	7.2	9.7	67.0	18.0	0.8
17-Jun-24	6.0	8.2	87.0	22.0	0.5	6.9	7.7	71.0	5.0	0.3	5.4	12.8	40.0	8.0	0.5	7.2	9.6	69.0	22.0	0.8
18-Jun-24	6.0	7.7	53.0	16.0	0.5	7.1	11.4	79.0	3.0	0.3	5.6	12.8	30.0	7.0	0.5	7.4	9.6	66.0	20.0	0.8
19-Jun-24	6.3	8.2	61.0	14.0	0.6	7.1	14.6	48.0	3.0	0.3	5.8	12.8	18.0	4.0	0.5	7.4	9.6	72.0	20.0	0.9
20-Jun-24	6.4	8.2	36.0	12.0	0.6	7.1	13.3	34.0	2.0	0.3	5.6	12.8	24.0	4.0	0.4	7.1	9.6	56.0	15.0	0.9
21-Jun-24	6.4	8.1	37.0	12.0	0.5	7.2	9.2	35.0	2.0	0.3	5.4	12.8	27.0	4.0	0.4	7.3	9.6	73.0	16.0	0.9
22-Jun-24	6.3	8.1	23.0	8.0	0.5	7.4	5.5	39.0	2.0	0.3	5.4	12.8	27.0	4.0	0.4	7.3	9.6	58.0	14.0	0.9
23-Jun-24	6.2	8.0	16.0	6.0	0.5	10.5	7.6	29.0	4.0	0.4	5.1	12.8	22.0	2.0	0.4	7.5	9.6	39.0	7.0	1.0
24-Jun-24	6.3	7.9	26.0	8.0	0.5	10.3	7.0	32.0	6.0	0.4	3.6	11.7	27.0	5.0	0.4	8.0	9.7	40.0	11.0	1.0
25-Jun-24	6.3	8.1	21.0	8.0	0.5	10.3	6.8	29.0	4.0	0.4	4.3	10.7	21.0	4.0	0.5	7.9	9.6	61.0	12.0	1.0
26-Jun-24	6.6	8.0	18.0	0.0	0.5	10.4	6.7	22.0	2.0	0.4	6.2	10.7	11.0	5.0	0.5	7.8	9.6	40.0	9.0	0.9
27-Jun-24	6.3	8.0	22.0	6.0	0.5	10.6	6.7	25.0	2.0	0.4	3.9	10.7	10.0	4.0	0.4	7.7	7.3	62.0	12.0	0.8
28-Jun-24	6.4	8.0	39.0	12.0	0.5	10.8	8.8	33.0	6.0	0.4	6.1	10.7	18.0	4.0	0.5	6.1	8.8	82.0	19.0	1.3
29-Jun-24	4.2	6.3	36.0	8.0	0.5	10.2	16.4	38.0	3.0	0.4	6.4	10.7	5.0	6.0	0.5	5.6	6.9	69.0	20.0	1.3
30-Jun-24	6.4	8.2	54.0	15.0	0.6	10.2	19.1	61.0	3.0	0.4	6.3	10.7	24.0	8.0	0.5	5.7	9.6	61.0	16.0	1.2
Remarks:	Nil																			

For Moxie Power Generation Limited

MK Parameswaran

Station Head

MOXIE POWER GENERATION LIMITED ★ Melamarudur Tuticorin

MOXIE POWER GENERATION LIMITED

2 X 600 MW THERMAL POWER PLANT

CONTINUOUS AMBIENT AIR QUALITY MONITORING REPORT

Daily Average from 01.07.2024 to 31.07.2024

Date	STATION-1 (Near Main Office)					STATION-2 (Near CHP)					STATION-3 (Near Ash Pond)					STATION-4 (Sea Water Pump House)				
	SO2	NOX	PM10	PM2.5	CO	SO2	NOX	PM10	PM2.5	CO	SO2	NOX	PM10	PM2.5	CO	SO2	NOX	PM10	PM2.5	CO
	80	80	100	60	02	80	80	100	60	02	80	80	100	60	02	80	80	100	60	02
	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³
1-Jul-24	6.0	8.3	35.0	8.0	0.5	10.2	17.2	28.0	3.0	0.4	2.5	10.7	10.0	4.0	0.5	5.7	9.2	50.0	10.6	0.9
2-Jul-24	6.3	8.2	41.0	9.0	0.6	10.1	17.0	35.0	2.0	0.5	2.5	10.7	13.0	3.0	0.5	6.4	5.1	64.0	2.7	0.9
3-Jul-24	6.4	7.9	25.0	9.0	0.5	10.3	16.0	32.0	2.0	0.5	3.9	10.7	10.0	#	0.5	6.6	9.7	52.0	11.2	0.9
4-Jul-24	6.7	8.0	50.0	12.0	0.5	10.6	15.0	39.0	3.0	0.5	6.9	11.0	13.0	#	0.6	7.0	9.7	67.0	6.3	0.9
5-Jul-24	6.5	8.0	36.0	9.0	0.5	10.4	14.0	38.0	2.0	0.5	7.1	10.6	17.0	#	0.6	7.2	9.4	72.0	78.9	0.9
6-Jul-24	6.6	8.1	24.0	9.0	0.5	10.2	14.0	33.0	4.0	0.4	6.5	10.6	11.0	#	0.4	7.5	9.6	63.0	11.1	0.9
7-Jul-24	6.6	8.0	25.0	7.0	0.5	10.1	13.6	28.0	2.0	0.4	6.2	10.6	11.0	#	0.4	7.3	9.5	43.0	11.1	0.8
8-Jul-24	6.7	8.0	29.0	9.0	0.5	10.1	13.8	35.0	2.0	0.4	5.6	10.6	13.0	#	0.4	7.8	9.6	52.0	10.0	0.9
9-Jul-24	6.7	8.0	26.0	6.0	0.5	10.3	13.0	34.0	2.0	0.5	5.4	10.6	12.0	#	0.5	7.8	8.6	52.0	12.9	0.9
10-Jul-24	6.5	7.9	34.0	12.0	0.6	10.6	13.4	26.0	4.0	0.5	5.4	10.6	13.0	#	0.5	7.9	9.5	68.0	13.8	0.9
11-Jul-24	6.6	7.9	51.0	17.0	0.6	11.7	14.3	47.0	6.0	0.5	5.3	10.6	16.0	#	0.5	7.8	9.3	59.0	29.6	0.9
12-Jul-24	6.7	8.0	41.0	13.0	0.6	11.5	13.9	48.0	4.0	0.5	5.4	10.6	42.0	#	0.6	7.8	9.6	57.0	10.6	0.9
13-Jul-24	6.6	8.0	33.0	11.0	0.6	11.3	13.1	34.0	2.0	0.5	5.0	10.6	24.0	#	0.6	8.0	9.7	59.0	12.0	0.8
14-Jul-24	*	*	*	*	*	11.6	12.5	30.0	2.0	0.5	4.8	10.6	25.0	#	0.6	8.0	9.7	51.0	11.0	0.8
15-Jul-24	*	*	*	*	*	11.6	12.2	24.0	3.0	0.5	4.9	10.6	22.0	#	0.5	8.2	9.7	48.0	10.0	0.8
16-Jul-24	*	*	*	*	*	11.4	12.6	26.0	4.0	0.5	4.7	10.5	24.0	#	0.5	8.7	9.2	48.0	0.0	0.8
17-Jul-24	8.7	7.3	39.0	11.0	0.5	11.2	12.7	25.0	2.0	0.5	5.1	8.8	18.0	#	0.5	9.5	9.7	32.0	7.0	0.6
18-Jul-24	9.9	7.6	37.2	8.0	0.4	11.4	12.8	30.0	3.0	0.5	6.4	6.5	29.0	#	0.6	10.1	9.7	39.0	8.0	0.6
19-Jul-24	10.2	7.7	36.1	15.0	0.4	10.7	13.1	36.0	2.0	0.5	6.3	5.1	36.0	#	0.6	10.0	9.7	41.0	9.0	0.6
20-Jul-24	8.7	7.6	28.0	12.0	0.3	7.9	11.0	39.0	2.0	0.6	6.0	5.2	24.0	#	0.6	10.0	9.7	46.0	12.0	0.6
21-Jul-24	5.2	7.6	32.0	21.0	0.4	7.8	11.1	36.0	2.0	0.6	5.7	5.2	31.0	#	0.6	10.8	9.7	45.0	12.0	0.6
22-Jul-24	5.3	3.8	26.0	12.0	0.6	8.2	11.9	28.0	2.0	0.6	5.7	5.3	20.0	#	0.6	11.0	9.7	29.0	9.0	0.6
23-Jul-24	5.4	7.7	21.0	4.0	0.5	8.0	11.0	13.0	3.0	0.6	5.7	8.3	20.0	#	0.6	11.4	9.7	32.0	8.0	0.6
24-Jul-24	5.4	7.7	27.0	6.0	0.3	7.3	11.5	30.0	2.0	0.6	5.5	9.3	11.0	#	0.2	11.9	9.7	38.0	10.0	0.6
25-Jul-24	5.4	7.7	18.0	5.0	0.3	7.4	12.4	24.0	4.0	0.6	5.4	16.3	27.0	#	0.3	12.4	9.4	21.0	10.0	0.6
26-Jul-24	5.5	7.7	23.0	8.0	0.3	7.4	13.3	28.0	2.0	0.6	5.6	16.3	27.0	#	0.3	12.5	9.2	43.0	9.0	0.8
27-Jul-24	5.5	7.7	24.0	8.0	0.3	7.5	11.9	27.0	2.0	0.6	5.6	16.4	21.0	#	0.3	15.6	8.9	43.0	10.0	0.8
28-Jul-24	5.4	7.5	17.0	6.0	0.2	7.5	11.2	21.0	5.0	0.6	5.7	16.4	20.0	#	0.3	19.5	9.6	42.0	27.0	0.8
29-Jul-24	5.4	7.8	26.0	8.0	0.2	7.5	11.2	32.0	2.0	0.6	5.6	16.2	29.0	#	0.3	18.4	9.3	55.0	13.0	0.8
30-Jul-24	5.2	7.8	26.0	10.0	0.2	7.3	10.7	29.0	2.0	0.7	5.7	16.1	18.0	#	0.3	14.1	8.9	45.0	13.0	0.8
31-Jul-24	5.3	7.9	25.0	10.0	0.2	7.4	11.3	30.0	3.0	0.7	5.5	16.4	16.0	#	0.3	12.6	9.6	43.0	11.0	0.9

Remarks: * Due to main incoming electrical power supply Issue, data not recorded. # Due to analyser issue data not available

For Moxie Power Generation Limited

MOXIE POWER GENERATION LIMITED ★ Melamarudur Tuticorin

MK Parameswaran

MOXIE POWER GENERATION LIMITED

2 X 600 MW THERMAL POWER PLANT

CONTINUOUS AMBIENT AIR QUALITY MONITORING REPORT

Daily Average from 01.08.2024 to 31.08.2024

Date	STATION-1 (Near Main Office)					STATION-2 (Near CHP)					STATION-3 (Near Ash Pond)					STATION-4 (Sea Water Pump House)				
	SO2	NOX	PM10	PM2.5	CO	SO2	NOX	PM10	PM2.5	CO	SO2	NOX	PM10	PM2.5	CO	SO2	NOX	PM10	PM2.5	CO
	80	80	100	60	02	80	80	100	60	02	80	80	100	60	02	80	80	100	60	02
	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³
1-Aug-24	5.3	7.8	29.0	13.0	0.4	7.5	11.8	33.0	2.0	0.7	5.6	16.8	17.0	*	0.4	10.6	11.3	51.0	11.0	0.9
2-Aug-24	5.3	7.8	27.0	14.0	0.4	7.5	12.1	30.0	2.0	0.7	5.7	15.8	18.0	*	0.4	10.1	12.4	50.0	10.0	0.9
3-Aug-24	5.5	7.9	31.0	18.0	0.4	7.8	13.6	38.0	2.0	0.7	5.7	15.9	19.0	*	0.5	9.8	16.4	62.0	13.0	0.9
4-Aug-24	5.4	7.9	43.0	23.0	0.4	7.9	13.8	43.0	3.0	0.7	5.8	16.1	23.0	*	0.5	12.3	13.4	78.0	17.0	1.0
5-Aug-24	5.9	8.0	78.0	24.0	0.4	7.8	14.8	58.0	3.0	0.8	5.7	16.2	38.0	*	0.5	10.3	12.4	59.0	12.0	1.0
6-Aug-24	5.9	7.9	46.0	16.0	0.4	8.2	15.2	60.0	5.0	0.8	5.7	15.7	29.0	*	0.5	11.0	16.4	74.0	29.0	1.0
7-Aug-24	5.4	7.8	37.0	15.0	0.4	8.0	12.7	37.0	4.0	0.8	5.6	16.0	18.0	*	0.5	10.2	14.1	67.0	25.0	1.0
8-Aug-24	5.6	7.9	47.0	14.0	0.2	8.2	14.1	37.0	3.0	0.8	5.7	15.9	20.0	*	0.7	10.2	13.5	66.0	18.0	1.0
9-Aug-24	5.6	7.9	44.0	14.0	0.5	8.2	16.4	39.0	2.0	0.8	5.9	16.5	25.0	*	0.5	11.4	13.5	83.0	20.0	1.0
10-Aug-24	5.6	7.9	13.0	12.0	0.5	8.6	13.2	39.0	5.0	0.8	5.8	16.0	34.0	*	0.4	12.5	14.9	54.0	16.0	1.0
11-Aug-24	5.4	7.8	43.0	16.0	0.3	8.6	16.5	36.0	6.0	0.7	5.6	14.3	29.0	*	0.4	11.6	0.0	56.0	26.0	1.0
12-Aug-24	5.6	7.9	67.0	21.0	0.4	9.9	13.0	34.0	4.0	0.8	5.9	15.4	19.0	*	0.5	12.9	16.6	64.0	43.0	1.0
13-Aug-24	5.4	7.0		26.0	0.3	10.4	16.0	57.0	9.0	0.8	5.8	15.8	21.0	*	0.6	11.2	16.7	90.0	40.0	1.0
14-Aug-24	5.4	6.8	62.0	25.0	0.3	9.9	17.6	37.0	6.0	0.9	6.0	15.1	9.0	*	0.6	9.1	16.4	90.0	45.0	1.0
15-Aug-24	5.5	8.0	66.0	15.0	0.3	10.3	19.5	47.0	3.0	0.9	6.1	16.0	17.0	*	0.5	9.1	14.6	85.0	31.0	1.0
16-Aug-24	5.6	8.1	72.0	19.0	0.3	10.0	19.5	53.0	5.0	0.9	5.9	16.6	23.0	*	0.4	9.2	12.5	74.0	28.0	0.6
17-Aug-24	5.6	7.9	36.0	15.0	0.3	10.2	19.3	29.0	2.0	0.8	6.0	17.3	15.0	*	0.4	9.3	17.1	60.0	11.0	0.7
18-Aug-24	6.4	7.9	66.0	18.0	0.3	10.1	22.1	57.0	4.0	0.8	5.6	16.6	25.0	*	0.2	9.0	15.3	79.0	20.0	0.8
19-Aug-24	6.1	7.9	48.0	15.0	0.3	10.9	24.5	50.0	3.0	0.9	5.6	16.6	27.0	*	0.3	9.3	16.3	68.0	27.0	0.8
20-Aug-24	6.1	7.9	54.0	10.0	0.3	10.9	23.2	41.0	3.0	0.7	5.5	16.6	20.0	*	0.2	9.1	16.4	90.0	19.0	0.8
21-Aug-24	6.2	7.7	34.0	18.0	0.3	9.2	17.0	28.0	2.0	0.8	5.6	16.6	16.0	*	0.5	9.4	16.5	64.0	19.0	0.8
22-Aug-24	6.3	7.7	66.0	25.0	0.3	8.4	9.6	65.0	6.0	0.9	5.7	16.6	22.0	10.0	0.4	9.7	16.4	74.0	34.0	0.8
23-Aug-24	6.0	7.8	82.0	40.0	0.3	8.6	9.6	47.0	3.0	0.9	5.6	16.6	15.0	5.0	0.4	9.7	14.3	88.0	45.0	1.0
24-Aug-24	6.5	7.7	63.0	23.0	0.3	8.1	8.6	25.0	3.0	0.7	5.7	16.6	23.0	7.0	0.3	9.5	16.4	34.0	14.0	0.7
25-Aug-24	6.1	7.7	16.0	9.0	0.3	7.9	8.9	31.0	2.0	0.7	5.7	16.6	26.0	6.0	0.3	9.3	11.9	58.0	12.0	0.8
26-Aug-24	6.2	7.7	17.0	8.0	0.3	7.8	13.4	28.0	2.0	0.7	6.0	16.6	18.0	5.0	0.3	9.3	12.9	57.0	26.0	0.8
27-Aug-24	6.1	7.7	32.0	9.0	0.3	7.8	8.9	27.0	4.0	0.7	6.1	16.6	22.0	5.0	0.3	9.3	11.3	56.0	21.0	0.8
28-Aug-24	6.1	7.7	36.0	12.0	0.3	7.2	11.0	27.0	2.0	0.8	6.2	16.6	11.0	6.0	0.3	9.3	13.4	32.0	12.0	0.8
29-Aug-24	6.2	7.7	21.0	5.0	0.3	7.1	10.9	25.0	4.0	0.8	6.1	16.6	21.0	4.0	0.3	9.3	8.5	32.0	19.0	0.8
30-Aug-24	6.1	7.7	22.0	7.0	0.3	7.1	12.0	28.0	2.0	0.8	6.1	16.6	19.0	4.0	0.4	9.2	8.5	27.0	14.0	0.9
31-Aug-24	6.2	7.7	22.0	7.0	0.3	7.0	12.4	24.0	3.0	0.8	6.1	16.6	18.0	4.0	0.3	9.4	21.1	58.0	15.0	1.0

Remarks: * Due to analyser issue, Data not available

For Moxie Power Generation Limited

MK Parameswaran

MOXIE POWER GENERATION LIMITED

2 X 600 MW THERMAL POWER PLANT

CONTINUOUS AMBIENT AIR QUALITY MONITORING REPORT

Daily Average from 01.09.2024 to 30.09.2024

Date	STATION-1 (Near Main Office)					STATION-2 (Near CHP)					STATION-3 (Near Ash Pond)					STATION-4 (Sea Water Pump House)				
	SO2	NOX	PM10	PM2.5	CO	SO2	NOX	PM10	PM2.5	CO	SO2	NOX	PM10	PM2.5	CO	SO2	NOX	PM10	PM2.5	CO
	80	80	100	60	02	80	80	100	60	02	80	80	100	60	02	80	80	100	60	02
	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³
1-Sep-24	6.2	7.7	17.0	5.0	0.3	6.9	12.2	21.0	1.0	0.8	6.2	16.6	17.0	3.0	0.3	9.5	21.0	42.0	10.0	1.0
2-Sep-24	6.3	7.6	24.0	13.0	0.3	6.9	12.0	24.0	2.0	0.8	6.2	16.6	17.0	4.0	0.3	9.2	18.0	44.0	13.0	0.9
3-Sep-24	6.6	7.6	24.0	7.0	0.3	6.8	12.1	23.0	1.0	0.8	6.2	16.6	15.0	3.0	0.3	9.1	16.2	32.0	11.0	0.9
4-Sep-24	7.2	7.6	48.0	9.0	0.3	6.8	12.6	32.0	2.0	0.8	6.3	16.6	20.0	5.0	0.3	9.1	12.1	47.0	28.0	1.0
5-Sep-24	6.7	7.4	62.0	13.0	0.2	6.5	13.1	42.0	2.0	0.7	5.8	16.2	60.0	7.0	0.2	8.7	21.4	67.0	14.0	0.9
6-Sep-24	7.1	7.7	39.0	13.0	0.3	6.8	12.9	36.0	3.0	0.8	6.3	16.5	22.0	6.0	0.4	9.2	14.7	54.0	16.0	1.3
7-Sep-24	7.2	7.7	44.0	13.0	0.3	6.7	13.7	40.0	3.0	0.9	6.4	16.3	26.0	7.0	0.4	9.4	22.7	50.0	15.0	1.8
8-Sep-24	7.2	7.6	32.0	9.0	0.3	6.7	13.2	30.0	2.0	0.9	6.3	16.2	18.0	4.0	0.4	10.3	16.2	44.0	13.0	1.9
9-Sep-24	7.2	7.6	25.0	7.0	0.3	6.7	13.0	27.0	2.0	0.9	6.1	16.3	16.0	4.0	0.4	10.0	18.3	37.0	11.0	1.6
10-Sep-24	7.0	7.7	36.0	11.0	0.3	6.8	13.8	36.0	2.0	0.9	6.1	16.1	20.0	5.0	0.4	9.0	21.3	43.0	5.0	1.2
11-Sep-24	6.9	7.4	18.0	4.0	0.4	6.9	13.9	30.0	2.0	0.9	6.1	16.2	25.0	6.0	0.4	9.3	23.6	52.0	14.0	1.3
12-Sep-24	9.6	7.6	37.0	9.0	0.6	7.5	13.5	26.0	3.0	0.7	6.1	16.1	19.0	4.0	0.4	9.4	22.8	52.0	15.0	1.5
13-Sep-24	9.0	7.6	47.0	12.0	0.6	10.4	10.7	44.0	4.0	0.8	6.4	16.1	6.0	4.0	0.5	9.6	19.5	64.0	70.0	0.7
14-Sep-24	8.7	7.6	28.0	10.0	0.6	9.6	10.3	33.0	3.0	0.5	6.7	16.1	23.0	6.0	0.5	9.3	21.3	38.0	11.0	0.7
15-Sep-24	8.6	7.6	30.0	11.0	0.6	9.3	10.4	33.0	3.0	0.5	6.6	15.9	20.0	5.0	0.5	9.2	25.2	61.0	15.0	0.7
16-Sep-24	8.5	7.7	36.0	13.0	0.6	9.2	9.6	40.0	3.0	0.6	6.6	16.4	23.0	6.0	0.5	9.3	23.3	50.0	13.0	0.7
17-Sep-24	8.7	7.8	33.0	12.0	0.7	9.2	9.2	42.0	2.0	0.5	6.7	15.8	28.0	7.0	0.5	9.1	23.4	55.0	14.0	1.2
18-Sep-24	8.6	5.8	36.0	19.0	0.7	9.1	9.4	44.0	3.0	0.5	6.7	16.0	32.0	7.0	0.5	9.2	23.9	63.0	19.0	1.2
19-Sep-24	8.1	8.3	40.0	15.0	0.6	9.2	9.7	40.0	3.0	0.5	6.7	16.1	32.0	7.0	0.6	9.5	32.8	73.0	15.0	1.1
20-Sep-24	8.5	8.6	41.0	16.0	0.6	9.1	10.2	44.0	3.0	0.5	6.8	16.2	25.0	7.0	0.5	9.1	32.1	85.0	18.0	0.9
21-Sep-24	8.4	8.6	40.0	14.0	0.6	10.0	12.6	43.0	2.0	0.8	6.7	16.1	25.0	6.0	0.5	9.4	6.7	68.0	14.0	0.9
22-Sep-24	8.4	8.6	27.0	10.0	0.6	9.7	8.1	32.0	3.0	1.1	6.7	16.1	29.0	6.0	0.5	9.5	10.2	34.0	10.0	1.1
23-Sep-24	8.3	8.5	13.0	4.0	0.7	9.5	9.8	26.0	2.0	1.4	6.9	16.0	19.0	4.0	0.6	9.5	9.3	35.0	8.0	1.2
24-Sep-24	8.3	8.5	21.0	2.0	0.9	9.5	11.7	28.0	2.0	1.2	7.0	15.7	23.0	5.0	0.6	9.9	9.3	41.0	11.0	1.2
25-Sep-24	8.3	8.6	22.0	2.0	0.9	9.9	10.4	22.0	2.0	1.1	7.0	15.8	17.0	3.0	0.6	10.0	3.3	35.0	7.0	1.2
26-Sep-24	8.3	8.6	47.0	11.0	0.9	10.2	10.1	25.0	3.0	0.9	7.0	15.9	20.0	4.0	0.6	10.2	8.0	66.0	18.0	1.3
27-Sep-24	8.3	8.6	40.0	13.0	0.9	9.9	9.4	42.0	4.0	0.6	7.0	16.1	15.0	6.0	0.7	10.2	7.9	56.0	17.0	1.4
28-Sep-24	8.4	8.6	52.0	17.0	0.9	9.8	9.9	45.0	4.0	0.7	7.2	17.1	31.0	8.0	0.8	10.3	7.9	52.0	9.0	0.0
29-Sep-24	8.5	8.6	61.0	9.0	0.9	10.1	9.2	29.0	2.0	0.7	7.3	17.0	18.0	5.0	0.8	10.7	16.4	59.0	15.0	1.0
30-Sep-24	8.6	8.6	55.0	11.0	0.9	10.9	8.6	22.0	4.0	0.7	7.4	16.9	11.0	3.0	0.7	11.1	10.8	50.0	2.0	1.0
Remarks:	Nil																			

For Moxie Power Generation Limited

MK Parameswaran
Station Head

MOXIE POWER GENERATION LIMITED ★ Melamarudur Tuticorin

MOXIE POWER GENERATION LIMITED

2 X 600 MW THERMAL POWER PLANT

CONTINUOUS STACK EMISSION MONITORING REPORT

Daily Average from 01.04.2024 to 30.09.2024

UNIT-1

Apr-24				May-24				Jun-24				Jul-24				Aug-24				Sep-24			
Date	SPM	SO2	NOX	Date	SPM	SO2	NOX	Date	SPM	SO2	NOX	Date	SPM	SO2	NOX	Date	SPM	SO2	NOX	Date	SPM	SO2	NOX
	50 mg/Nm3	200 mg/Nm3	450 mg/Nm3		50 mg/Nm3	200 mg/Nm3	450 mg/Nm3		50 mg/Nm3	200 mg/Nm3	450 mg/Nm3		50 mg/Nm3	200 mg/Nm3	450 mg/Nm3		50 mg/Nm3	200 mg/Nm3	450 mg/Nm3		50 mg/Nm3	200 mg/Nm3	450 mg/Nm3
1-Apr-24	48	172	142	1-May-24	39	175	239	1-Jun-24	48	185	136	1-Jul-24				1-Aug-24	Unit is not in operation			1-Sep-24	36	67	68
2-Apr-24	46	186	174	2-May-24	44	153	225	2-Jun-24	42	171	135	2-Jul-24				2-Aug-24	49	118	159	2-Sep-24	28	109	85
3-Apr-24	49	196	191	3-May-24	36	157	200	3-Jun-24	46	159	128	3-Jul-24				3-Aug-24	47	164	118	3-Sep-24	32	131	180
4-Apr-24	49	199	210	4-May-24	39	184	197	4-Jun-24	Unit not in operation			4-Jul-24				4-Aug-24	43	121	169	4-Sep-24	36	159	177
5-Apr-24	44	182	149	5-May-24	34	190	197	5-Jun-24				5-Jul-24				5-Aug-24	44	139	165	5-Sep-24	37	163	178
6-Apr-24	38	176	131	6-May-24	36	197	217	6-Jun-24	46	188	134	6-Jul-24				6-Aug-24	49	231	185	6-Sep-24	45	132	188
7-Apr-24	39	196	146	7-May-24	37	176	201	7-Jun-24	43	191	143	7-Jul-24				7-Aug-24	50	214	172	7-Sep-24	45	166	184
8-Apr-24	43	149	139	8-May-24	43	177	156	8-Jun-24		201	169	8-Jul-24				8-Aug-24	48	172	167	8-Sep-24	45	168	174
9-Apr-24	44	169	169	9-May-24	36	136	106	9-Jun-24	48	168	154	9-Jul-24				9-Aug-24	48	142	175	9-Sep-24	42	181	162
10-Apr-24	49	157	174	10-May-24	37	169	128	10-Jun-24	46	186	174	10-Jul-24				10-Aug-24	46	152	178	10-Sep-24	40	180	150
11-Apr-24	40	181	176	11-May-24	*	208	121	11-Jun-24	45	207	186	11-Jul-24				11-Aug-24	42	132	173	11-Sep-24	42	191	173
12-Apr-24	46	200	236	12-May-24	*	194	134	12-Jun-24	47	208	183	12-Jul-24				12-Aug-24	44	160	169	12-Sep-24	42	194	162
13-Apr-24	48	199	201	13-May-24	36	183	124	13-Jun-24	46	197	188	13-Jul-24				13-Aug-24	43	160	167	13-Sep-24	45	195	173
14-Apr-24	44	219	273	14-May-24	35	189	126	14-Jun-24	44	202	165	14-Jul-24				14-Aug-24	48	163	168	14-Sep-24	45	183	180
15-Apr-24	46	214	261	15-May-24	37	208	145	15-Jun-24	44	195	174	15-Jul-24				15-Aug-24	44	117	173	15-Sep-24	44	143	177
16-Apr-24	48	186	211	16-May-24	44	215	150	16-Jun-24	44	216	175	16-Jul-24	Unit not in operation			16-Aug-24	49	141	179	16-Sep-24	46	146	175
17-Apr-24	48	198	226	17-May-24	41	189	148	17-Jun-24	44	216	164	17-Jul-24				17-Aug-24	42	152	176	17-Sep-24	38	143	176
18-Apr-24	Unit not in operation			18-May-24	41	201	145	18-Jun-24	44	212	172	18-Jul-24				18-Aug-24	41	144	188	18-Sep-24	36	149	161
19-Apr-24				19-May-24	46	195	144	19-Jun-24	44	177	168	19-Jul-24				19-Aug-24	42	169	148	19-Sep-24	43	116	172
20-Apr-24				20-May-24	41	202	155	20-Jun-24	48	209	143	20-Jul-24				20-Aug-24	42	182	177	20-Sep-24	50	109	180
21-Apr-24				21-May-24	45	217	130	21-Jun-24	43	192	147	21-Jul-24				21-Aug-24	43	167	157	21-Sep-24	47	126	158
22-Apr-24	40	193	205	22-May-24	44	210	121	22-Jun-24	41	166	149	22-Jul-24				22-Aug-24	42	161	190	22-Sep-24	35	149	128
23-Apr-24	39	191	232	23-May-24	44	198	125	23-Jun-24	48	190	136	23-Jul-24				23-Aug-24	49	163	197	23-Sep-24	48	178	186
24-Apr-24	41	186	201	24-May-24	42	207	146	24-Jun-24	42	189	141	24-Jul-24				24-Aug-24	44	220	164	24-Sep-24	48	207	213
25-Apr-24	41	168	225	25-May-24	42	162	137	25-Jun-24	40	184	124	25-Jul-24				25-Aug-24	46	122	89	25-Sep-24	47	166	150
26-Apr-24	42	165	235	26-May-24	41	89	121	26-Jun-24	46	195	142	26-Jul-24				26-Aug-24	48	174	95	26-Sep-24	46	120	164
27-Apr-24	40	186	226	27-May-24	Unit not in operation			27-Jun-24	49	179	158	27-Jul-24				27-Aug-24	43	154	147	27-Sep-24	42	113	172
28-Apr-24	39	146	193	28-May-24				28-Jun-24	46	160	139	28-Jul-24				28-Aug-24	43	145	144	28-Sep-24	41	114	190
29-Apr-24	36	186	214	29-May-24	41	192	144	29-Jun-24	48	171	149	29-Jul-24				29-Aug-24	41	151	149	29-Sep-24	46	129	171
30-Apr-24	37	184	210	30-May-24	47	177	139	30-Jun-24	47	191	139	30-Jul-24				30-Aug-24	47	146	148	30-Sep-24	47	110	178
				31-May-24	44	199	133					31-Jul-24				31-Aug-24	48	145	148				
Remarks	-			Remarks	-			Remarks	-			Remarks	-			Remarks	-			Remarks	-		

For Moxie Power Generation Limited

MK Parameswaran
Station Head

MOXIE POWER GENERATION LIMITED

2 X 600 MW THERMAL POWER PLANT

CONTINUOUS STACK EMISSION MONITORING REPORT

Daily Average from 01.04.2024 to 30.09.2024

UNIT-2

Apr-24				May-24				Jun-24				Jul-24				Aug-24				Sep-24			
Date	SPM	SO2	NOX	Date	SPM	SO2	NOX	Date	SPM	SO2	NOX	Date	SPM	SO2	NOX	Date	SPM	SO2	NOX	Date	SPM	SO2	NOX
	50 mg/Nm³	200 mg/Nm³	450 mg/Nm³		50 mg/Nm³	200 mg/Nm³	450 mg/Nm³		50 mg/Nm³	200 mg/Nm³	450 mg/Nm³		50 mg/Nm³	200 mg/Nm³	450 mg/Nm³		50 mg/Nm³	200 mg/Nm³	450 mg/Nm³		50 mg/Nm³	200 mg/Nm³	450 mg/Nm³
1-Apr-24	34	181	139	1-May-24	Unit not in operation			1-Jun-24	29	174	121	1-Jul-24	40	183	149	1-Aug-24	46	163	173	1-Sep-24	45	156	139
2-Apr-24	41	198	173	2-May-24				2-Jun-24	34	163	140	2-Jul-24	41	184	146	2-Aug-24	35	146	158	2-Sep-24	44	64	26
3-Apr-24	40	159	214	3-May-24				3-Jun-24	36	180	168	3-Jul-24	43	179	161	3-Aug-24	35	159	145	3-Sep-24	Unit not in operation		
4-Apr-24	34	150	201	4-May-24	31	186	152	4-Jun-24	42	134	152	4-Jul-24	43	185	156	4-Aug-24	38	164	147	4-Sep-24			
5-Apr-24	35	183	178	5-May-24	39	178	179	5-Jun-24	46	149	100	5-Jul-24	44	195	153	5-Aug-24	37	173	150	5-Sep-24			
6-Apr-24	40	187	208	6-May-24	58	147	138	6-Jun-24	48	135	191	6-Jul-24	43	187	129	6-Aug-24	42	210	150	6-Sep-24			
7-Apr-24	40	155	169	7-May-24	58	179	115	7-Jun-24	47	150	196	7-Jul-24	45	164	108	7-Aug-24	44	184	156	7-Sep-24			
8-Apr-24	39	192	182	8-May-24	44	194	192	8-Jun-24	48	161	142	8-Jul-24	44	175	109	8-Aug-24	42	170	113	8-Sep-24			
9-Apr-24	38	189	188	9-May-24	43	202	204	9-Jun-24	47	157	149	9-Jul-24	45	168	108	9-Aug-24	47	167	144	9-Sep-24			
10-Apr-24	38	202	173	10-May-24	43	162	136	10-Jun-24	47	175	103	10-Jul-24	46	167	113	10-Aug-24	47	167	136	10-Sep-24			
11-Apr-24	39	191	171	11-May-24	36	157	139	11-Jun-24	46	163	158	11-Jul-24	45	151	100	11-Aug-24	43	156	152	11-Sep-24			
12-Apr-24	41	178	170	12-May-24	44	163	148	12-Jun-24	48	188	168	12-Jul-24	47	142	132	12-Aug-24	48	190	100	12-Sep-24			
13-Apr-24	39	191	179	13-May-24	45	161	120	13-Jun-24	47	178	151	13-Jul-24	49	160	102	13-Aug-24	49	195	111	13-Sep-24			
14-Apr-24	38	172	145	14-May-24	44	186	111	14-Jun-24	48	180	148	14-Jul-24	48	193	99	14-Aug-24	49	206	122	14-Sep-24			
15-Apr-24	36	187	179	15-May-24	45	224	179	15-Jun-24	45	166	138	15-Jul-24	48	167	157	15-Aug-24	48	165	126	15-Sep-24			
16-Apr-24	42	193	162	16-May-24	45	207	193	16-Jun-24	46	183	145	16-Jul-24	45	151	149	16-Aug-24	47	152	121	16-Sep-24	33	123	39
17-Apr-24	44	202	133	17-May-24	45	177	201	17-Jun-24	42	182	113	17-Jul-24	48	182	172	17-Aug-24	48	173	149	17-Sep-24	35	143	102
18-Apr-24	42	169	132	18-May-24	45	176	125	18-Jun-24	46	180	138	18-Jul-24	48	211	141	18-Aug-24	47	111	151	18-Sep-24	32	173	108
19-Apr-24	41	108	107	19-May-24	45	201	148	19-Jun-24	42	165	102	19-Jul-24	47	189	151	19-Aug-24	48	175	166	19-Sep-24	36	179	110
20-Apr-24	43	147	124	20-May-24	44	179	149	20-Jun-24	46	172	117	20-Jul-24	48	169	146	20-Aug-24	41	173	178	20-Sep-24	47	79	139
21-Apr-24	39	155	107	21-May-24	45	207	150	21-Jun-24	47	156	136	21-Jul-24	49	178	115	21-Aug-24	42	163	172	21-Sep-24	41	111	40
22-Apr-24	34	177	123	22-May-24	45	234	142	22-Jun-24	46	147	114	22-Jul-24	46	201	166	22-Aug-24	42	171	149	22-Sep-24	32	78	114
23-Apr-24	41	179	141	23-May-24	45	197	112	23-Jun-24	48	184	139	23-Jul-24	49	206	126	23-Aug-24	42	154	147	23-Sep-24	31	97	76
24-Apr-24	41	203	179	24-May-24	43	180	125	24-Jun-24	39	163	102	24-Jul-24	48	198	147	24-Aug-24	42	171	136	24-Sep-24	30	147	137
25-Apr-24	45	211	182	25-May-24	43	179	101	25-Jun-24	44	179	127	25-Jul-24	47	204	150	25-Aug-24	44	148	144	25-Sep-24	37	171	92
26-Apr-24	36	172	163	26-May-24	43	177	142	26-Jun-24	45	154	119	26-Jul-24	48	208	140	26-Aug-24	45	159	141	26-Sep-24	45	163	130
27-Apr-24	37	188	156	27-May-24	43	174	139	27-Jun-24	47	178	115	27-Jul-24	49	132	125	27-Aug-24	45	168	136	27-Sep-24	44	156	125
28-Apr-24	40	187	197	28-May-24	43	161	126	28-Jun-24	42	179	101	28-Jul-24	39	150	106	28-Aug-24	45	174	133	28-Sep-24	35	118	139
29-Apr-24	42	193	182	29-May-24	44	179	123	29-Jun-24	40	196	107	29-Jul-24	43	188	111	29-Aug-24	45	174	119	29-Sep-24	31	103	122
30-Apr-24	43	198	163	30-May-24	46	204	179	30-Jun-24	39	146	111	30-Jul-24	48	215	126	30-Aug-24	45	165	130	30-Sep-24	35	104	84
				31-May-24	46	199	148					31-Jul-24	46	178	133	31-Aug-24	45	159	119				
Remarks	-			Remarks	-			Remarks	-			Remarks	-			Remarks	-			Remarks			

For Moxie Power Generation Limited

MK Parameswaran
Station Head

MOXIE POWER GENERATION LIMITED ★ Melamarudur Tuticorin

MOXIE POWER GENERATION LIMITED

2 X 600 MW THERMAL POWER PLANT

METROLOGICAL STATION REPORT

Daily Average from 01.04.2024 to 30.04.2024

Date	Ambient Temperature (°C)			Barometric Pressure (m.bar)			Predominant Wind direction Blowing from	Wind Speed (Km/Hr)			Relative Humidity (%)			Rain Fall (mm)
	Min	Max	Avg	Min	Max	Avg		Min	Max	Avg	Min	Max	Avg	
1-Apr-24	24.8	35.8	29.7	1037	1041	1039	South East & West	1.21	21.15	7.18	54.2	92.2	76.6	0
2-Apr-24	25.3	36.7	30.7	1036	1040	1038	South East & South West	1.22	25.88	8.3	51.8	93	74.1	0
3-Apr-24	25.6	36.2	29.7	1038	1040	1039	South & South East	1.22	21.17	6.07	59.6	93.2	79.8	0
4-Apr-24	24.6	35.7	30.1	1037.1	1040.3	1038.8	South East & North West	1.2	23.9	7.9	58.8	95.8	78.5	0
5-Apr-24	24.7	37.1	30.8	1036.6	1040	1038.3	South East & North West	1.2	23	7.8	48.2	94.6	73.9	0
6-Apr-24	24.7	36.2	30.4	1036.2	1039.4	1037.8	South East & North	1.20	23.1	7.6	51.1	95.9	75.1	0
7-Apr-24	24.5	36.9	28.4	1036.1	1039.2	1038	North West & South East	1.2	16.4	4.3	50.6	95.4	81.8	0
8-Apr-24	28	36.1	32.5	1037	1039.5	1038.3	South East & East	1.2	27.2	12.6	51.5	86	68.3	0
9-Apr-24	25.6	34.4	30.1	1037	1040.1	1038.6	East & North East	1.2	23.9	8.4	54.4	91.2	74.7	0
10-Apr-24	25.8	34.9	30.3	1037.2	1040	1038.4	East & North West	1.2	24.7	8.9	55.2	87.2	72.6	0
11-Apr-24	26	35.1	30.6	1036.9	1040.5	1038.9	East & North West	1.2	22.6	9.5	51.9	85	72.7	0
12-Apr-24	24.2	33.7	29.1	1037.4	1040.4	1039.1	East & North East	1.2	27.7	8.4	64.9	97	80.1	0
13-Apr-24	25.3	35.2	29.8	1037.5	1040.6	1039.1	North West & East	1.2	20.1	7.1	53.2	97.3	77.3	1
14-Apr-24	25.9	35.6	30.3	1037.2	1040.6	1039	East & North West	1.5	24.2	9.8	55.5	92.5	75.4	0
15-Apr-24	26.0	35.2	29.4	1037.9	1040.6	1039.4	East & North East	1.2	24.5	7.6	57.8	91.3	79.7	0
16-Apr-24	25.5	35.3	29.4	1037.8	1040.4	1039.3	East & North West	1.2	20.3	5.2	56.4	98.3	81.8	1.5
17-Apr-24	25.2	35.9	30.6	1037.1	1040.6	1039.1	South East & South	1.2	22.5	8.9	54.1	97.8	76.3	0
18-Apr-24	24.9	36.2	30.8	1036.2	1039.4	1038	South East & South	1.2	24.7	9.1	55.9	95.8	76.8	0
19-Apr-24	25.8	37.5	31.5	1034.9	1038.5	1036.8	South East & South	1.2	27.1	7.5	55.1	95.7	75.6	0
20-Apr-24	25.8	38.5	31.5	1035	1038	1036.6	West & South East	1.2	27.1	7.7	44.5	94.7	75.8	0
21-Apr-24	25.7	35.8	30.5	1035.7	1038.6	1037.1	North West & South East	1.2	22.9	7	58.2	96.1	80.6	0
22-Apr-24	25	36.7	30.9	1035.9	1039.1	1037.7	South East & North West	1.2	23.2	7.4	49.7	96.9	75.8	0
23-Apr-24	26.3	36.4	30.7	1035.5	1038.5	1037.2	South East & East	1.2	22.5	7.7	51.4	94.1	77.6	0
24-Apr-24	25.4	37	31.1	1035.7	1038.3	1037.1	South East & East	1.2	22.2	6.9	46.7	96	73.4	0
25-Apr-24	24.6	36.7	30.5	1036.1	1038.5	1037.2	South East & North West	1.2	20.6	6.4	50.6	94.4	75.5	0
26-Apr-24	25.1	37.5	30.9	1035.6	1038.7	1037.1	South East & East	1.2	20.5	6.3	49.3	93.6	73.4	0
27-Apr-24	24.9	36.4	30.8	1035.5	1038.6	1037.2	East & South East	1.2	21.4	6.5	51.1	93.9	73.3	0
28-Apr-24	26.4	37	31.8	1036	1039	1037.4	South East & West	1.2	21.1	6.9	54	87.8	73.5	0
29-Apr-24	27.4	38	32.4	1035.7	1039.9	1038.2	South East & East	1.2	24.7	7.4	48.5	89.9	71.0	0
30-Apr-24	27.7	37.8	32.4	1035.9	1039.1	1037.7	South East & South	1.2	28.6	9	52.6	88.2	71.9	0

Remarks: Total Rainfall for the month 2.5 mm. Rainfall Recorded on 13 & 16th April.

For Moxie Power Generation Limited

MK Parameswaran
Station Head

MOXIE POWER GENERATION LIMITED ★ Melamarudur Tuticorin

MOXIE POWER GENERATION LIMITED

2 X 600 MW THERMAL POWER PLANT

METROLOGICAL STATION REPORT

Daily Average from 01.05.2024 to 31.05.2024

Date	Ambient Temperature (°C)			Barometric Pressure (m.bar)			Predominant Wind direction Blowing from	Wind Speed (Km/Hr)			Relative Humidity (%)			Rain Fall (mm)
	Min	Max	Avg	Min	Max	Avg		Min	Max	Avg	Min	Max	Avg	
1-May-24	26.1	37.3	32.1	1034.1	1038.1	1036.2	South East & South	1.2	29.4	9.5	49.8	93	71.2	0
2-May-24	26.1	38.1	31.9	1034.6	1037.7	1036.4	South & South East	1.2	26	8.7	49.5	90.8	73.6	0
3-May-24	28.5	39.3	32.6	1035.3	1038.5	1036.9	South & South West	1.2	28.9	10.7	47.2	88.3	71.8	0
4-May-24	27.1	38.5	32.7	1035.2	1039	1037.1	South East & South West	1.2	28.8	8.5	41.1	87.6	67.6	0
5-May-24	27.5	39	33	1034.7	1037.6	1036.4	South East & West	1.2	30.6	8.4	46.9	82.9	65.4	0
6-May-24	28	40.1	32.7	1035.3	1037.9	1036.7	South East & West	1.20	28.7	8.6	36.6	78.8	63.8	0
7-May-24	27.2	39.2	32.7	1035.6	1038.9	1037.5	South East & West	1.2	24.9	8.5	43.1	75.9	60.3	0
8-May-24	25.6	37.1	31.6	1036	1039.3	1037.8	South East & East	1.2	23.5	7.6	47.9	78.7	65.2	0
9-May-24	25.9	36.6	31.1	1036	1039	1037.6	South East & North West	1.2	23.4	7.4	52.7	84.6	71.7	0
10-May-24	26.7	36.5	30.5	1036.1	1039.7	1038.3	North West & South East	1.2	26.6	6.5	56.9	87.5	73.7	0
11-May-24	25.8	34.8	29.7	1037.3	1040.5	1039	South East & North West	1.2	20.3	5.9	61.7	93.3	77.0	0
12-May-24	25.5	35.1	30.4	1036.9	1040.4	1038.9	South East & North West	1.2	23.8	7.5	57.5	93.1	77.5	0
13-May-24	24.9	36	29.2	1036.7	1039.7	1038.4	North West & North	1.2	18.3	4.2	57.9	97	80.7	0
14-May-24	23.9	35.8	28.6	1036.7	1039.9	1038.5	North West & South East	1.2	17.4	4.7	51.7	98.7	81.4	20
15-May-24	25.4	35.5	29.1	1037.1	1040.2	1038.6	North West & South East	1.2	17.8	5.6	58	96.3	81.2	0
16-May-24	25.3	34.5	28.4	1036.9	1040.4	1038.7	North West & South East	1.2	21	5.3	62.4	96.2	83.5	17
17-May-24	25.7	30	27.9	1036.5	1039.2	1038.1	East & North West	1.2	18	3	78.9	98.4	88.8	2
18-May-24	24.9	34.6	28	1024.1	1038	1036.8	North West & South East	1.2	19.1	4.3	63.3	99.3	86.2	0
19-May-24	24.8	33.9	28.1	1033.9	1037.6	1035.8	North West & East	1.2	17.1	3.9	63.9	98.4	86.7	8
20-May-24	25.4	33.1	28.7	1034.3	1037.2	1035.6	East & North West	1.2	26.7	5.9	59.6	99	79.2	2
21-May-24	24.8	37.2	29.8	1034.2	1036.1	1034.5	South West & West	1.2	19.6	5.3	47	93.3	72.2	0
22-May-24	25.8	35.7	29.3	1032.7	1035.6	1034.5	South West & West	1.2	22.5	5.6	56.5	94.1	80.3	0
23-May-24	24.9	35.5	28.4	1034.6	1035.2	1034.1	South West & West	1.2	21.6	6.4	54.1	98.9	83.5	35
24-May-24	25.7	34.7	28.5	1032.8	1035.7	1034.2	South West & West	1.2	20.7	7.1	57	98.5	84.8	0
25-May-24	25.5	34.6	29.5	1033.5	1036	1034.4	South West & West	1.2	22.5	8.7	56.4	94.5	73.1	0
26-May-24	27.7	34.7	30.6	1033.6	1036.2	1035.1	West & South West	1.5	28.4	10.1	52.2	76.8	65.2	0
27-May-24	27.4	36	31.1	1033.8	1036.4	1035.2	West & South West	1.7	27.8	10.9	46.0	77.6	64.3	0
28-May-24	28	34.3	31	1034.2	1036.6	1035.5	West & South West	2.7	35.3	11.6	50	74.7	63.2	0
29-May-24	27.2	37.9	32.0	1033.4	1036.6	1035.3	West & South West	2.9	28.4	10.8	45.5	79.6	64.3	0
30-May-24	27.2	37.9	32	1033.4	1036.6	1035.3	West & South West	1.2	20	8	45.5	79.6	64.3	0
31-May-24	25.8	38.3	31.8	1033.8	1036.9	1035.4	West & South East	1.2	23	6.7	42.8	87.5	67.0	0

Remarks: Total Rainfall for the month 84.0 mm. Rainfall Recorded on 14, 16, 17, 19, 20 & 23rd May.

For Moxie Power Generation Limited

MK Parameswaran
Station Head

MOXIE POWER GENERATION LIMITED ★ Melamarudur Tuticorin

MOXIE POWER GENERATION LIMITED

2 X 600 MW THERMAL POWER PLANT

METROLOGICAL STATION REPORT

Daily Average from 01.06.2024 to 30.06.2024

Date	Ambient Temperature (°C)			Barometric Pressure (m.bar)			Predominant Wind direction Blowing from	Wind Speed (Km/Hr)			Relative Humidity (%)			Rain Fall (mm)
	Min	Max	Avg	Min	Max	Avg		Min	Max	Avg	Min	Max	Avg	
1-Jun-24	27.1	38.6	31.5	1034.4	1037	1035.7	East & South East	1.2	26.7	5.8	45.6	85	70.0	0.0
2-Jun-24	25.5	37	29.9	1035.1	1038.3	1036.8	North West & South East	1.2	24.7	6.8	50.4	92.7	75.9	0.0
3-Jun-24	25.3	35.4	30.3	1036	1038.4	1037.3	North West & South East	1.2	17.8	4.7	56.7	91.6	77.0	0.0
4-Jun-24	25.9	36.9	30.8	1036.1	1039.1	1037.7	North & East	1.2	27.7	7.6	48.9	88.5	72.9	0.0
5-Jun-24	27.2	37.1	31.1	1036.1	1039.6	1038.1	North & North East	1.2	29.8	11.4	53.5	85.4	73.7	0.0
6-Jun-24	27.7	36.5	30.6	1036.4	1039.5	1038.4	North & North East	1.2	28.8	11.7	55.6	89.6	77.9	0.0
7-Jun-24	26.9	35.8	29.6	1036.1	1039.6	1038	North & North East	1.2	29.7	10.5	58.7	90.4	78.7	0.0
8-Jun-24	26.5	34.4	29.6	1036.2	1039	1037.9	North East & North	1.2	28.0	10.7	58	88.7	76.2	0.0
9-Jun-24	26	37.4	31.1	1036.1	1039.1	1037.6	North East & North	1.2	24.8	9.8	42.5	86.4	65.0	0.0
10-Jun-24	27.3	38.0	32.2	1036.1	1039.2	1037.8	North East & East	1.4	29.1	11.0	34.9	78.3	58.7	0.0
11-Jun-24	28.5	37.8	32.5	1036.3	1038.9	1037.7	North East & East	1.2	37.2	12.5	38.2	70.2	56.3	0.0
12-Jun-24	28	35.9	31.4	1037.1	1039.9	1038.6	North East & East	2.8	29.4	10.3	42.0	76.9	61.1	0.0
13-Jun-24	28.3	37.2	32	1036.4	1039.9	1038.2	North East & East	2.5	22.4	9.6	39.9	72.4	58.4	0.0
14-Jun-24	27.4	37.7	32.1	1035.2	1038.3	1037.1	East & North East	1.2	19.0	7.8	40.2	72.8	60.1	0.0
15-Jun-24	27.4	37.2	31.7	1035.1	1038	1036.9	North East & East	1.2	26.0	9.0	35	72.7	57.8	0.0
16-Jun-24	26.3	37.6	32	1035.1	1038.1	1036.9	North East & East	1.2	24.0	9.1	36.9	77.3	58.0	0.0
17-Jun-24	25.6	36.9	31.7	1035.1	1038.4	1037	North East & North West	1.2	29.0	9.2	46.3	80.9	64.8	0.0
18-Jun-24	26.5	37.7	31.7	1035.2	1038.5	1037.2	North East & North	1.2	25.1	8.6	41.1	88.9	65.0	0.0
19-Jun-24	26.6	37.5	30.1	1035.3	1037.8	1036.9	North East & North	1.2	28.0	7.2	43.1	94	70.1	0.0
20-Jun-24	26.4	37.2	30.6	1035.1	1038.2	1036.8	North East & East	1.2	26.0	6.5	0	84	46.3	0.0
21-Jun-24	26.5	36.7	30.4	1035.2	1038	1036.7	East & North East	1.2	26.7	7.3	0	71.3	34.8	0.0
22-Jun-24	27.8	37.9	31.4	1033.7	1036.8	1035.4	East & North East	1.7	33.9	11.0	39.6	73.7	60.1	0.0
23-Jun-24	27.5	36.1	31	1034.1	1036.7	1035.5	East & North East	5.3	34.4	15.9	44.9	74.3	59.7	0.0
24-Jun-24	26.8	36.9	31.2	899.9	1036.9	993.1	North East & East	1.4	33.5	9.7	0	86.3	41.5	0.0
25-Jun-24	27.4	35.5	30.7	1034.4	1036.7	1035.7	East & North East	1.5	33.5	15.2	47.9	75.8	64.5	0.0
26-Jun-24	28	32.7	29.3	1035.2	1037.7	1036.3	East & North East	2.8	35.7	14.8	54.6	75.9	67.5	0.0
27-Jun-24	27.9	34.5	30.5	1035.9	1038.6	1036.9	East & North East	2.5	31.5	14.9	49.8	73.4	62.1	0.0
28-Jun-24	26.5	37.7	31.6	1035.4	1038.6	1037.3	North East & East	2.0	30.3	11.7	37.4	80.8	59.3	0.0
29-Jun-24	26.7	38.2	30.9	1036.5	1038.5	1037.7	North East & East	2.1	21.7	9.3	39.5	84.1	64.4	0.0
30-Jun-24	26.2	38.3	31.8	1035.7	1038.9	1037.6	East & North East	1.2	30.4	9.4	41.4	82.2	63.2	0.0
Remarks:	Total Rainfall for the month			0.0	mm.									

For Moxie Power Generation Limited

MK Parameswaran
Station Head

MOXIE POWER GENERATION LIMITED
Melamarudur
Tuticorin

MOXIE POWER GENERATION LIMITED

2 X 600 MW THERMAL POWER PLANT

METROLOGICAL STATION REPORT

Daily Average from 01.07.2024 to 31.07.2024

Date	Ambient Temperature (°C)			Barometric Pressure (m.bar)			Predominant Wind direction Blowing from	Wind Speed (Km/Hr)			Relative Humidity (%)			Rain Fall (mm)
	Min	Max	Avg	Min	Max	Avg		Min	Max	Avg	Min	Max	Avg	
1-Jul-24	27.8	37.1	32.1	1035.6	1038.9	1037.6	East & North East	1.2	27.9	9.8	40.2	75.5	58.5	0
2-Jul-24	25.2	36.9	30.7	1035.2	1038	1036.8	North West & South East	1.2	27.1	6.4	44.1	85	69.6	0
3-Jul-24	27.5	37.4	32.3	1034.5	1038.5	1037	South East & South	1.2	20.3	8.5	41	76.9	60.3	0
4-Jul-24	26.2	36.7	31.1	1036	1038.8	1037.5	South & North West	1.2	26.7	7.5	42.8	89.2	66.5	0
5-Jul-24	25.9	38.7	31.2	1035	1038.1	1036.8	South & North West	1.2	28.0	9.2	39.7	84.5	64.3	0
6-Jul-24	27.3	37.3	31.6	1034.8	1037.9	1036.6	South & North East	2.0	22.2	9.7	37.9	69.8	56.4	0
7-Jul-24	28.3	37.8	32.5	1034.4	1037.7	1036.3	East & South	2.3	26.4	11.0	39.2	70.7	55.8	0
8-Jul-24	28	38	31.5	1034.8	1037.1	1036.1	East & South East	1.6	26.9	12.3	34.9	68.1	55.4	0
9-Jul-24	27.1	37.5	31.6	1035.8	1038.4	1036.9	East & South East	1.2	28.5	11.2	38.3	72.5	57.2	0
10-Jul-24	27.9	39.9	32.4	1013.4	1039.5	1036.1	East & South East	1.7	25.3	11.3	33.1	75.5	55.8	0
11-Jul-24	28.2	37.1	30.5	1013.4	1039.2	1037.5	South & East	1.2	26.3	8.2	37.8	91.7	69.0	0
12-Jul-24	27.3	38.3	30.4	1014.2	1038.1	1037.1	East & South East	1.2	34.8	9.5	39.4	80.3	64.0	0
13-Jul-24	*	*	*	*	*	*	*	*	*	*	*	*	*	0
14-Jul-24	*	*	*	*	*	*	*	*	*	*	*	*	*	0
15-Jul-24	*	*	*	*	*	*	*	*	*	*	*	*	*	0
16-Jul-24	*	*	*	*	*	*	*	*	*	*	*	*	*	0
17-Jul-24	*	*	*	*	*	*	*	*	*	*	*	*	*	0
18-Jul-24	*	*	*	*	*	*	*	*	*	*	*	*	*	0
19-Jul-24	29.3	36.4	31.2	1034.7	1037.4	1036.1	South & South East	1.4	39.9	19.1	40.3	63.2	51.8	0
20-Jul-24	28.9	35.4	31.3	1035.2	1037.5	1036.3	East & South East	5.5	30.0	14.5	44.2	64.9	56.9	0
21-Jul-24	28.8	36.7	32.4	1035.6	1038.2	1037.0	South East & South	4.9	25.3	14.3	39.1	66.8	51.9	0
22-Jul-24	28.1	35.4	31.2	1036.8	1039.4	1038	South & South East	1.6	23.4	11.8	43.5	68	58.6	0
23-Jul-24	28.1	38.7	32.7	1036.2	1039.2	1038.1	South & South East	1.2	25.3	11.7	37.6	73.2	56.0	0
24-Jul-24	28.4	40.1	30.5	1034.6	1038.6	1036.9	South & South East	1.4	26.6	11.2	31	70.1	52.8	0
25-Jul-24	27.6	36.8	29.6	899.9	1037.8	989.5	South & South East	1.2	37.1	10.1	36.4	66.4	37.5	0
26-Jul-24	28.6	38.1	32.2	1034.4	1037.9	1036.4	South & South East	5.2	30.7	14.9	39.5	70	56.9	0
27-Jul-24	28.8	39	32.6	1034.6	1037.8	1036.4	South & South West	2.0	25.2	10.6	35.5	67.5	55.5	0
28-Jul-24	28.7	36.3	31.4	1034.1	1037.4	1035.9	South & South West	4.8	29.0	13.8	41.7	69.2	59.2	0
29-Jul-24	28.7	34.9	31.1	1034	1037.5	1035.5	South & South West	5.9	39.8	18.1	47.6	70.8	60.3	0
30-Jul-24	28.4	36.1	31	1035.6	1038.3	1036.9	South & South West	2.5	38.9	13.7	42	71.3	59.6	0
31-Jul-24	28.6	38.1	31.9	1036.3	1038.9	1037.8	South & South East	2.4	33.6	13.2	38.3	67.6	56.9	0

Remarks: Total Rainfall for the month 0.0 mm.

* Due to main incoming electrical power supply Issue, data not recorded.

For Moxie Power Generation Limited

MK Parameswaran
Station Head

MOXIE POWER GENERATION LIMITED ★ Melamarudur Tuticorin

MOXIE POWER GENERATION LIMITED

2 X 600 MW THERMAL POWER PLANT

METROLOGICAL STATION REPORT

Daily Average from 01.08.2024 to 31.08.2024

Date	Ambient Temperature (°C)			Barometric Pressure (m.bar)			Predominant Wind direction Blowing from	Wind Speed (Km/Hr)			Relative Humidity (%)			Rain Fall (mm)
	Min	Max	Avg	Min	Max	Avg		Min	Max	Avg	Min	Max	Avg	
1-Aug-24	27.3	37.8	31.7	1035.7	1038.9	1037.6	West & South West	3.0	28.8	12.6	38.1	71.9	56.3	0.0
2-Aug-24	28.2	38.8	31.9	1035.5	1039.2	1037.5	West & South West	1.8	24.4	11.1	36.4	71.1	56.1	0.0
3-Aug-24	25.2	38	28.8	899.9	1039.6	1033.7	West & South West	1.2	27.7	7.5	42.1	72.1	55.1	0.0
4-Aug-24	*	*	*	*	*	*	*	*	*	*	*	*	*	0.0
5-Aug-24	*	*	*	*	*	*	*	*	*	*	*	*	*	0.0
6-Aug-24	25.6	36.1	30.4	1035.5	1038.8	1037.4	West & South West	1.2	27.5	8.3	46.7	84.1	68.1	0.0
7-Aug-24	25.9	35.5	29.7	1035.8	1039.1	1037.8	West & South West	1.2	25.4	7.5	54.8	86.2	74.1	0.0
8-Aug-24	24.3	35.3	28.9	1036.9	1039.9	1038.4	South & South East	1.2	22.6	6.4	51.9	93.9	77.0	5.0
9-Aug-24	23.9	35.6	29.3	1037	1039.6	1038.3	South & South West	1.2	27.2	7.1	52.3	96.3	75.2	0.0
10-Aug-24	25.5	36.3	30.6	1036.4	1039.6	1038.1	West & South West	1.2	27.3	8.6	49.4	84.2	67.5	0.0
11-Aug-24	25.6	34.8	29.7	1034.7	1038.3	1037	West & South West	1.2	25.7	7.8	55.8	88.5	73.0	0.0
12-Aug-24	25.3	36.3	30.1	1034.4	1037.6	1036.3	South & South East	1.2	29.5	9.0	49.1	86.9	72.4	0.0
13-Aug-24	26.1	35.4	29.9	1035.1	1037.9	1036.6	South East & North West	1.2	23.0	6.5	54.9	98.1	79.4	4.5
14-Aug-24	24.5	34.4	29	1034.6	1037.5	1036.2	South & South East	1.2	20.0	6.6	59	99.1	82.2	12.0
15-Aug-24	25.5	35.5	30.2	1033.6	1036.9	1035.5	South & South East	1.2	20.2	7.4	52.6	98	77.1	0.0
16-Aug-24	25.1	35.8	30.1	1033.4	1036.8	1036.2	South East & North West	1.2	21.6	5.3	55.3	88.9	63.9	0.0
17-Aug-24	25.3	37.6	29.2	1034.2	1037.7	1035.9	South & South East	1.2	23.0	7.0	45.7	96.2	76.8	0.0
18-Aug-24	25.1	28.3	29.3	899.9	1037.2	943.3	West & South West	1.2	6.8	6.4	43.2	93	28.0	0.0
19-Aug-24	*	*	*	*	*	*	*	*	*	*	*	*	*	0.0
20-Aug-24	25.4	34.8	30.1	899.9	1038.5	978.7	South East & North West	1.2	29.3	7.1	44.3	83.6	40.8	0.0
21-Aug-24	26.1	32.9	27.8	1037.3	1039.8	1038.4	South & South West	1.7	30.9	9.9	50.2	87.6	76.9	0.0
22-Aug-24	25.4	35.8	28.7	1037.4	1040	1038.8	South & South West	1.2	24.4	9.0	46	89.5	75.6	0.0
23-Aug-24	25.7	35.3	30.5	1037.3	1040.2	1038.8	West & South West	1.8	26.7	14.2	49.9	92.3	74.6	0.0
24-Aug-24	25.3	37.5	29.9	899.9	1041.1	1038.1	South & South West	1.2	22.1	9.7	47.5	86.9	63.7	0.0
25-Aug-24	26.5	37.4	31.5	1037.5	1040.7	1039.5	South & South West	1.2	28.7	12.0	34.1	77.1	55.2	0.0
26-Aug-24	25.7	37.6	31.3	1036.7	1040.1	1038.9	South & South West	2.4	23.5	10.1	37	77.9	56.9	0.0
27-Aug-24	26.6	38	31.5	1036.9	1040.5	1039	South East & North West	3.4	27.7	11.3	35.6	78.6	58.2	0.0
28-Aug-24	25.8	35.8	31.2	1037.3	1040.2	1039	South & South West	2.0	25.7	10.1	42.5	70.2	58.5	0.0
29-Aug-24	26	36.9	30.6	1035.8	1039.3	1038.0	South & South West	1.2	26.4	12.1	40.6	67.8	57.8	0.0
30-Aug-24	25.4	36.1	30.5	1036.6	1039.3	1037.9	South & South West	1.7	27.7	11.1	43.8	76.8	62.8	0.0
31-Aug-24	28.6	38.1	31.9	1036.3	1038.9	1037.8	South & South West	2.4	33.6	13.2	38.3	67.6	56.9	0.0

Remarks: Total Rainfall for the month 0.0 mm. * Due to Instrument power supply Issue data not available.

For Moxie Power Generation Limited

MK Parameswaran
Station Head

MOXIE POWER GENERATION LIMITED Melamarudur Tuticorin

MOXIE POWER GENERATION LIMITED

2 X 600 MW THERMAL POWER PLANT

METROLOGICAL STATION REPORT

Daily Average from 01.09.2024 to 30.09.2024

Date	Ambient Temperature (°C)			Barometric Pressure (m.bar)			Predominant Wind direction Blowing from	Wind Speed (Km/Hr)			Relative Humidity (%)			Rain Fall (mm)
	Min	Max	Avg	Min	Max	Avg		Min	Max	Avg	Min	Max	Avg	
1-Sep-24	24.1	37.8	30.1	1035.8	1037.9	1037.2	West & South West	1.2	8.7	6.9	41.2	68.9	56.7	0.0
2-Sep-24	25.3	38.9	29.9	1036.6	1038.4	1037.1	South East & North West	1.2	23.9	8.2	26.9	68.2	59.3	0.0
3-Sep-24	25.6	36.6	29.7	1036.3	1039.6	1038.1	West & South West	1.4	32.2	13.2	41.8	72.8	60.8	0.0
4-Sep-24	26.1	39.2	30.6	1035.5	1039.4	1037.8	West & South West	3.1	26.8	10.4	37.1	70.3	57.8	0.0
5-Sep-24	25.4	38.1	30.4	1034.5	1038.5	1036.9	West & South West	1.2	26.1	9.2	38.8	78.8	60.6	0.0
6-Sep-24	26.1	39.2	30.1	1034.3	1038.7	1036.8	South & South East	1.2	23.9	8.7	36.4	73.5	51.3	0.0
7-Sep-24	*	*	*	*	*	*	*	*	*	*	*	*	*	0.0
8-Sep-24	*	*	*	*	*	*	*	*	*	*	*	*	*	0.0
9-Sep-24	*	*	*	*	*	*	*	*	*	*	*	*	*	0.0
10-Sep-24	26.7	37.2	29.7	1035.2	1039.1	1037.5	#	1.2	29.6	12.7	40.8	77.8	58.5	0.0
11-Sep-24	26.3	37.1	29.6	1036.7	1039.7	1038.2	#	1.3	28.4	11.4	41.3	80.5	60.4	0.0
12-Sep-24	26.1	38.8	30.1	1035.9	1040.1	1038.3	#	1.2	28.2	10.9	35.6	77.6	57.1	0.0
13-Sep-24	25.9	38.1	30.7	1034.7	1039.5	1037.8	#	1.9	27.2	10.6	33.1	77.2	62.5	0.0
14-Sep-24	26.4	38.8	29.6	1035.4	1039.1	1037.6	#	1.2	28.0	11.8	35.8	68.2	55.4	0.0
15-Sep-24	25.7	38.9	30.4	1035.4	1039	1037.4	#	1.2	33.1	10.8	30.4	76.5	57.6	0.0
16-Sep-24	*	*	*	*	*	*	#	*	*	*	*	*	*	0.0
17-Sep-24	*	*	*	*	*	*	#	*	*	*	*	*	*	0.0
18-Sep-24	25.3	38.3	30.4	1034.6	1037.5	1037.4	#	1.2	34.6	8.5	32.4	85.5	51.5	0.0
19-Sep-24	25.2	39.8	30.4	1034.7	1038.4	1036.8	#	1.2	26.2	10.1	30.5	71.3	53.5	0.0
20-Sep-24	26.4	38.1	30.1	1035.4	1038.1	1037	#	1.7	27.7	10.7	32.8	67.7	56.1	0.0
21-Sep-24	26.3	37.9	29.4	1035.1	1038.6	1036.8	#	1.2	26.8	11.1	35.8	71.5	58.4	0.0
22-Sep-24	25.8	38.5	28.7	1034.7	1037.8	1037.3	#	1.2	27.8	11.7	34.5	70	51.8	0.0
23-Sep-24	26.4	38.6	30.2	1034.6	1037.5	1036.1	#	1.2	28.8	7.9	32.9	65.6	28.7	0.0
24-Sep-24	25.3	38.4	30.1	1034.2	1037.5	1036.1	#	1.2	26.4	12.9	36	66.3	52.7	0.0
25-Sep-24	26.4	38.7	29.4	1034.3	1037.6	1036.1	#	1.3	30.2	12.2	35.8	68.8	55.9	0.0
26-Sep-24	25.6	37.6	30.6	1035.2	1037.9	1036.5	#	1.2	28.1	8.2	38.1	87.2	64.0	0.0
27-Sep-24	25.7	37.4	30.8	1036	1039.3	1037.8	#	1.2	32.3	7.8	42.8	79	65.1	0.0
28-Sep-24	26.3	35.3	30.6	1036.5	1040.2	1038.5	#	1.2	21.3	6.9	54.3	87.2	70.0	0.0
29-Sep-24	26.2	35.4	30.1	1036.4	1040.7	1037.6	#	1.2	16.6	9.2	42.5	95.9	37.9	12.5
30-Sep-24	25.9	35.7	29.4	1035.2	1041.1	1037.3	#	1.2	21.7	8.4	44.1	90.4	43.7	1.0

Remarks: Total Rainfall for the month 13.5 mm.

* Due to Instrument power supply failure, data not available. # Due to problem in Wind Direction sensor, data not available.

For Moxie Power Generation Limited

MK Parameswaran
Station Head

MOXIE POWER GENERATION LIMITED ★ Melamarudur Tuticorin

Interstellar Testing Centre Private Limited

Since 1988

TC-6952

Test Report No. : ICE-2409300907 (1)
NABL ULR No. : TC695224000015931F

ORIGINAL

Issued To :

Coastal Energen Private Limited
2X600 MW Mutiara Thermal Power Plant , 4/36D, Melamaruthur (village), Duraisamypuram(Post), Ottapidaram Taluk, Tuticorin, 628105
Tamil Nadu, India

Sample Registration No. : E02-2409250907
Sample Name : Ambient Air Quality
Sample Condition : Good

Received On : 25-09-2024
Commenced On : 25-09-2024
Completed On : 30-09-2024
Date of Report : 30-09-2024

Sample Details (if any)

Sample Submission Type : Sampled by Lab Rep
Sampling Location : Near Main Office
Environment Condition : Good
Sampling Procedure : ITC/CHN/GSOP/001
Customer Reference : Test Request Form/24/09/2024
Test Report as per : NAAQ Norms

S. No. Sampling Information:

(a) Date of Monitoring , - : 23.09.24-24.09.24
(b) Duration of Monitoring , minutes : 1440
(c) Avg. Ambient Temperature , °C : 31
(d) Relative Humidity , %(Avg.) : 66
(e) Sky Appearance , - : Clear sky

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**Ambient Air Quality Parameters**				
1	Sulphur Dioxide (SO2)	µg/m3	IS 5182(Part-2): 2001	7.73	80 Max
2	Nitrogen Dioxide (NO2)	µg/m3	IS 5182(Part -6): 2006	19.43	80 Max
3	Particulate Matter (PM 10)	µg/m3	IS 5182(Part-23): 2006	63.52	100 Max
4	Particulate Matter (PM 2.5)	µg/m3	IS 5182(Part-24): 2019	28.69	60 Max
5	Ozone (O3)	µg/m3	IS 5182(Part-9): 1974	15.70	180 Max*
6	Lead (pb)	µg/m3	IS 5182(Part-22): 2004	BDL (DL: 0.02)	1.0 Max
7	Ammonia (NH3)	µg/m3	IS 5182(Part-25): 2018	8.14	400 Max
8	Benzene (C6H6)	µg/m3	IS 5182(Part-11): 2006	BDL (DL: 1.0)	5 Max**
9	Benzo (a) Pyrene (Particulate Phase only)	ng/m3	IS 5182(Part-12): 2004	BDL (DL: 1.0)	1 Max**
10	Arsenic (As)	ng/m3	USEPA Method	BDL (DL: 2.0)	6 Max**

30/09/2024
Chinnaraja
Verified by

30/09/2024
Sakthivel
Authorised by

Interstellar Testing Centre Private Limited
Plot No. 2, S.No. 12/2A, Industrial Estate,
Perungudi, Sholinganallur Taluk, Chennai - 600 096.
Ph : 044 - 24962512
Email : itclabs.chennai@itclabs.com
Website : www.itclabs.com

			IO 3.4		
11	Nickel (Ni)	ng/m3	USEPA Method IO 3.4	BDL (DL: 2.0)	20 Max**
12	Mercury as Hg	µg/m3	USEPA Method IO 3.5	BDL (DL: 0.002)	NA

NOTE : NAAQ: National Ambient Air Quality, Instrument used: Respirable Dust Sampler(RDS), Fine Dust Sampler(FDS), Multigas Analyser,Low Flow Air Sampler, BDL: Below Detection Limit, DL: Detection Limit. * As per NAAQ Norms 1 hour Limit, ** As per NAAQ Norms Annual Limit

REMARKS : The above sample complies with NAAQ Norms respect to the above tests.

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

30/09/2024
Chinnaraja
Verified by

30/09/2024
Sakthivel
Authorised by

Interstellar Testing Centre Private Limited
Plot No. 2, S.No. 12/2A, Industrial Estate,
Perungudi, Sholinganallur Taluk, Chennai - 600 096.
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Email : itclabs.chennai@itclabs.com
Website : www.itclabs.com

Interstellar Testing Centre Private Limited

Since 1988

Test Report No. : ICE-2409300907 (2)

ORIGINAL

Issued To :

Coastal Energen Private Limited
2X600 MW Mutiara Thermal Power Plant , 4/36D, Melamaruthur (village), Duraisamypuram(Post), Ottapidaram Taluk;
Tuticorin, 628105
Tamil Nadu, India

Sample Registration No.	: E02-2409250907	Received On	: 25-09-2024
Sample Name	: Ambient Air Quality	Commenced On	: 25-09-2024
Sample Condition	: Good	Completed On	: 30-09-2024
		Date of Report	: 30-09-2024

Sample Details (if any)

Sample Submission Type	: Sampled by Lab Rep
Sampling Location	: Near Main Office
Environment Condition	: Good
Sampling Procedure	: ITC/CHN/GSOP/001
Customer Reference	: Test Request Form/24/09/2024
Test Report as per	: NAAQ Norms

S. No. Sampling Information:

(a)	Date of Monitoring , -	: 23.09.24-24.09.24
(b)	Duration of Monitoring , minutes	: 1440
(c)	Avg. Ambient Temperature , °C	: 31
(d)	Relative Humidity , %(Avg.)	: 66
(e)	Sky Appearance , -	: Clear sky

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**Ambient Air Quality Parameters**				
1	Carbon Monoxide (CO)	mg/m3	IS 5182(Part-10): 1999	BDL (DL: 1.0)	2 Max*

NOTE : NAAQ: National Ambient Air Quality, Instrument used: Respirable Dust Sampler(RDS), Fine Dust Sampler(FDS), Multigas Analyser,Low Flow Air Sampler, BDL: Below Detection Limit, DL: Detection Limit. * As per NAAQ Norms 8 hours Limit

REMARKS : The above sample complies with NAAQ Norms respect to the above tests.

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

30/09/2024
Chinnaraja
Verified by

30/09/2024
Sakthivel
Authorised by

Interstellar Testing Centre Private Limited
Plot No. 2, S.No. 12/2A, Industrial Estate,
Perungudi, Sholinganallur Taluk, Chennai - 600 096.
Ph : 044 - 24962512
Email : itclabs.chennai@itclabs.com
Website : www.itclabs.com

Interstellar Testing Centre Private Limited

Since 1988

TC-6952

Test Report No. : **ICE-2409300908 (1)**
NABL ULR No. : **TC695224000015927F**

ORIGINAL

Issued To :

Coastal Energen Private Limited
2X600 MW Mutiara Thermal Power Plant , 4/36D, Melamaruthur (village), Duraisamypuram(Post), Ottapidaram Taluk, Tuticorin, 628105
Tamil Nadu, India

Sample Registration No. : E02-2409250908
Sample Name : Ambient Air Quality
Sample Condition : Good

Received On : 25-09-2024
Commenced On : 25-09-2024
Completed On : 30-09-2024
Date of Report : 30-09-2024

Sample Details (if any)

Sample Submission Type : Sampled by Lab Rep
Sampling Location : Near Salt Gate
Environment Condition : Good
Sampling Procedure : ITC/CHN/GSOP/001
Customer Reference : Test Request Form/24/09/2024
Test Report as per : NAAQ Norms

S. No. Sampling Information:

(a) Date of Monitoring , - : 23.09.24-24.09.24
(b) Duration of Monitoring , minutes : 1440
(c) Avg. Ambient Temperature , °C : 31
(d) Relative Humidity , %(Avg.) : 66
(e) Sky Appearance , - : Clear sky

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**Ambient Air Quality Parameters**				
1	Sulphur Dioxide (SO2)	µg/m3	IS 5182(Part-2): 2001	8.05	80 Max
2	Nitrogen Dioxide (NO2)	µg/m3	IS 5182(Part -6): 2006	20.48	80 Max
3	Particulate Matter (PM 10)	µg/m3	IS 5182(Part-23): 2006	65.03	100 Max
4	Particulate Matter (PM 2.5)	µg/m3	IS 5182(Part-24): 2019	30.35	60 Max
5	Ozone (O3)	µg/m3	IS 5182(Part-9): 1974	16.02	180 Max*
6	Lead (pb)	µg/m3	IS 5182(Part-22): 2004	BDL (DL: 0.02)	1.0 Max
7	Ammonia (NH3)	µg/m3	IS 5182(Part-25): 2018	8.58	400 Max
8	Benzene (C6H6)	µg/m3	IS 5182(Part-11): 2006	BDL (DL: 1.0)	5 Max**
9	Benzo (a) Pyrene (Particulate Phase only)	ng/m3	IS 5182(Part-12): 2004	BDL (DL: 1.0)	1 Max**
10	Arsenic (As)	ng/m3	USEPA Method	BDL (DL: 2.0)	6 Max**

30/09/2024
Chinnaraja
Verified by

30/09/2024
Sakthivel
Authorised by

Interstellar Testing Centre Private Limited
Plot No. 2, S.No. 12/2A, Industrial Estate,
Perungudi, Sholinganallur Taluk, Chennai - 600 096.
Ph : 044 - 24962512
Email : itclabs.chennai@itclabs.com
Website : www.itclabs.com

			IO 3.4		
11	Nickel (Ni)	ng/m3	USEPA Method IO 3.4	BDL (DL: 2.0)	20 Max**
12	Mercury as Hg	µg/m3	USEPA Method IO 3.5	BDL (DL: 0.002)	NA

NOTE : NAAQ: National Ambient Air Quality, Instrument used: Respirable Dust Sampler(RDS), Fine Dust Sampler(FDS), Multigas Analyser,Low Flow Air Sampler, BDL: Below Detection Limit, DL: Detection Limit. * As per NAAQ Norms 1 hour Limit, ** As per NAAQ Norms Annual Limit

REMARKS : The above sample complies with NAAQ Norms respect to the above tests.

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

30/09/2024
Chinnaraja
Verified by

30/09/2024
Sakthivel
Authorised by

Interstellar Testing Centre Private Limited

Plot No. 2, S.No. 12/2A, Industrial Estate,
Perungudi, Sholinganallur Taluk, Chennai - 600 096.
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Interstellar Testing Centre Private Limited

Since 1988

TEST REPORT

Test Report No. : ICE-2409300908 (2)

ORIGINAL

Issued To :

Coastal Energen Private Limited
2X600 MW Mutiara Thermal Power Plant , 4/36D, Melamaruthur (village), Duraisamypuram(Post), Ottapidaram Taluk, Tuticorin, 628105
Tamil Nadu, India

Sample Registration No.	: E02-2409250908	Received On	: 25-09-2024
Sample Name	: Ambient Air Quality	Commenced On	: 25-09-2024
Sample Condition	: Good	Completed On	: 30-09-2024
Sample Details (if any)		Date of Report	: 30-09-2024
Sample Submission Type	: Sampled by Lab Rep		
Sampling Location	: Near Salt Gate		
Environment Condition	: Good		
Sampling Procedure	: ITC/CHN/GSOP/001		
Customer Reference	: Test Request Form/24/09/2024		
Test Report as per	: NAAQ Norms		

S. No. Sampling Information:

(a)	Date of Monitoring , -	: 23.09.24-24.09.24
(b)	Duration of Monitoring , minutes	: 1440
(c)	Avg. Ambient Temperature , °C	: 31
(d)	Relative Humidity , %(Avg.)	: 66
(e)	Sky Appearance , -	: Clear sky

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**Ambient Air Quality Parameters**				
1	Carbon Monoxide (CO)	mg/m3	IS 5182(Part-10): 1999	BDL (DL: 1.0)	2 Max*

NOTE : NAAQ: National Ambient Air Quality, Instrument used: Respirable Dust Sampler(RDS), Fine Dust Sampler(FDS), Multigas Analyser,Low Flow Air Sampler, BDL: Below Detection Limit, DL: Detection Limit. * As per NAAQ Norms 8 hours Limit

REMARKS : The above sample complies with NAAQ Norms respect to the above tests.

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

30/09/2024
Chinnaraja
Verified by

30/09/2024
Sakthivel
Authorised by

Interstellar Testing Centre Private Limited
Plot No. 2, S.No. 12/2A, Industrial Estate,
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Interstellar Testing Centre Private Limited

Since 1988

TC-8952

Test Report No. : ICE-2409300909 (1)
NABL ULR No. : TC695224000015928F

ORIGINAL

Issued To :

Coastal Energen Private Limited
2X600 MW Mutiara Thermal Power Plant , 4/36D, Melamaruthur (village), Duraisamypuram(Post), Ottapidaram Taluk, Tuticorin, 628105
Tamil Nadu, India

Sample Registration No. : E02-2409250909
Sample Name : Ambient Air Quality
Sample Condition : Good

Received On : 25-09-2024
Commenced On : 25-09-2024
Completed On : 30-09-2024
Date of Report : 30-09-2024

Sample Details (if any)

Sample Submission Type : Sampled by Lab Rep
Sampling Location : Near Crusher House
Environment Condition : Good
Sampling Procedure : ITC/CHN/GSOP/001
Customer Reference : Test Request Form/24/09/2024
Test Report as per : NAAQ Norms

S. No. Sampling Information:

(a)	Date of Monitoring , -	: 23.09.24-24.09.24
(b)	Duration of Monitoring , minutes	: 1440
(c)	Avg. Ambient Temperature , °C	: 31
(d)	Relative Humidity , %(Avg.)	: 66
(e)	Sky Appearance , -	: Clear sky

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**Ambient Air Quality Parameters**				
1	Sulphur Dioxide (SO2)	µg/m3	IS 5182(Part-2): 2001	9.15	80 Max
2	Nitrogen Dioxide (NO2)	µg/m3	IS 5182(Part -6): 2006	22.30	80 Max
3	Particulate Matter (PM 10)	µg/m3	IS 5182(Part-23): 2006	70.53	100 Max
4	Particulate Matter (PM 2.5)	µg/m3	IS 5182(Part-24): 2019	33.26	60 Max
5	Ozone (O3)	µg/m3	IS 5182(Part-9): 1974	17.30	180 Max*
6	Lead (pb)	µg/m3	IS 5182(Part-22): 2004	BDL (DL: 0.02)	1.0 Max
7	Ammonia (NH3)	µg/m3	IS 5182(Part-25): 2018	9.07	400 Max
8	Benzene (C6H6)	µg/m3	IS 5182(Part-11): 2006	BDL (DL: 1.0)	5 Max**
9	Benzo (a) Pyrene (Particulate Phase only)	ng/m3	IS 5182(Part-12): 2004	BDL (DL: 1.0)	1 Max**
10	Arsenic (As)	ng/m3	USEPA Method	BDL (DL: 2.0)	6 Max**

30/09/2024
Chinnaraja
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30/09/2024
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Website : www.itclabs.com

			IO 3.4		
11	Nickel (Ni)	ng/m3	USEPA Method IO 3.4	BDL (DL: 2.0)	20 Max**
12	Mercury as Hg	µg/m3	USEPA Method IO 3.5	BDL (DL: 0.002)	NA

NOTE : NAAQ: National Ambient Air Quality, Instrument used: Respirable Dust Sampler(RDS), Fine Dust Sampler(FDS), Multigas Analyser,Low Flow Air Sampler, BDL: Below Detection Limit, DL: Detection Limit. * As per NAAQ Norms 1 hour Limit, ** As per NAAQ Norms Annual Limit

REMARKS : The above sample complies with NAAQ Norms respect to the above tests.

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

30/09/2024
Chinnaraja
Verified by

30/09/2024
Sakthivel
Authorised by

Interstellar Testing Centre Private Limited

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Interstellar Testing Centre Private Limited

Since 1988

Test Report No. : ICE-2409300909 (2)

ORIGINAL

Issued To :

Coastal Energen Private Limited
2X600 MW Mutiara Thermal Power Plant , 4/36D, Melamaruthur (village), Duraisamypuram(Post), Ottapidaram Taluk, Tuticorin, 628105
Tamil Nadu, India

Sample Registration No. : E02-2409250909
Sample Name : Ambient Air Quality
Sample Condition : Good

Received On : 25-09-2024
Commenced On : 25-09-2024
Completed On : 30-09-2024
Date of Report : 30-09-2024

Sample Details (if any)

Sample Submission Type : Sampled by Lab Rep
Sampling Location : Near Crusher House
Environment Condition : Good
Sampling Procedure : ITC/CHN/GSOP/001
Customer Reference : Test Request Form/24/09/2024
Test Report as per : NAAQ Norms

S. No. Sampling Information:

(a) Date of Monitoring , - : 23.09.24-24.09.24
(b) Duration of Monitoring , minutes : 1440
(c) Avg. Ambient Temperature , °C : 31
(d) Relative Humidity , %(Avg.) : 66
(e) Sky Appearance , - : Clear sky

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**Ambient Air Quality Parameters**				
1	Carbon Monoxide (CO)	mg/m3	IS 5182(Part-10): 1999	BDL (DL: 1.0)	2 Max*

NOTE : NAAQ: National Ambient Air Quality, Instrument used: Respirable Dust Sampler(RDS), Fine Dust Sampler(FDS), Multigas Analyser,Low Flow Air Sampler, BDL: Below Detection Limit, DL: Detection Limit. * As per NAAQ Norms 8 hours Limit

REMARKS : The above sample complies with NAAQ Norms respect to the above tests.

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

30/09/2024
Chinnaraja
Verified by

30/09/2024
Sakthivel
Authorised by

Interstellar Testing Centre Private Limited
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Interstellar Testing Centre Private Limited

Since 1988

TC-6952

Test Report No. : ICE-2409300910 (1)
NABL ULR No. : TC695224000015929F

ORIGINAL

Issued To :

Coastal Energen Private Limited
2X600 MW Mutiara Thermal Power Plant , 4/36D, Melamaruthur (village), Duraisamypuram(Post), Ottapidaram Taluk, Tuticorin, 628105
Tamil Nadu, India

Sample Registration No. : E02-2409250910
Sample Name : Ambient Air Quality
Sample Condition : Good

Received On : 25-09-2024
Commenced On : 25-09-2024
Completed On : 30-09-2024
Date of Report : 30-09-2024

Sample Details (if any)

Sample Submission Type : Sampled by Lab Rep
Sampling Location : Near Batching Plant
Environment Condition : Good
Sampling Procedure : ITC/CHN/GSOP/001
Customer Reference : Test Request Form/24/09/2024
Test Report as per : NAAQ Norms

S. No. Sampling Information:

(a) Date of Monitoring , - : 23.09.24-24.09.24
(b) Duration of Monitoring , minutes : 1440
(c) Avg. Ambient Temperature , °C : 31
(d) Relative Humidity , %(Avg.) : 66
(e) Sky Appearance , - : Clear sky

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**Ambient Air Quality Parameters**				
1	Sulphur Dioxide (SO2)	µg/m3	IS 5182(Part-2): 2001	8.50	80 Max
2	Nitrogen Dioxide (NO2)	µg/m3	IS 5182(Part -6): 2006	21.13	80 Max
3	Particulate Matter (PM 10)	µg/m3	IS 5182(Part-23): 2006	68.23	100 Max
4	Particulate Matter (PM 2.5)	µg/m3	IS 5182(Part-24): 2019	32.02	60 Max
5	Ozone (O3)	µg/m3	IS 5182(Part-9): 1974	16.51	180 Max*
6	Lead (pb)	µg/m3	IS 5182(Part-22): 2004	BDL (DL: 0.02)	1.0 Max
7	Ammonia (NH3)	µg/m3	IS 5182(Part-25): 2018	8.75	400 Max
8	Benzene (C6H6)	µg/m3	IS 5182(Part-11): 2006	BDL (DL: 1.0)	5 Max**
9	Benzo (a) Pyrene (Particulate Phase only)	ng/m3	IS 5182(Part-12): 2004	BDL (DL: 1.0)	1 Max**
10	Arsenic (As)	ng/m3	USEPA Method	BDL (DL: 2.0)	6 Max**

30/09/2024
Chinnaraja
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30/09/2024
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Website : www.itclabs.com

			IO 3.4		
11	Nickel (Ni)	ng/m3	USEPA Method IO 3.4	BDL (DL: 2.0)	20 Max**
12	Mercury as Hg	µg/m3	USEPA Method IO 3.5	BDL (DL: 0.002)	NA

NOTE : NAAQ: National Ambient Air Quality, Instrument used: Respirable Dust Sampler(RDS), Fine Dust Sampler(FDS), Multigas Analyser,Low Flow Air Sampler, BDL: Below Detection Limit, DL: Detection Limit. * As per NAAQ Norms 1 hour Limit, ** As per NAAQ Norms Annual Limit

REMARKS : The above sample complies with NAAQ Norms respect to the above tests.

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

30/09/2024
Chinnaraja
Verified by

30/09/2024
Sakthivel
Authorised by

Interstellar Testing Centre Private Limited

Plot No. 2, S.No. 12/2A, Industrial Estate,
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Website : www.itclabs.com

Interstellar Testing Centre Private Limited

Since 1988

Test Report No. : ICE-2409300910 (2)

ORIGINAL

Issued To :

Coastal Energen Private Limited
2X600 MW Mutiara Thermal Power Plant , 4/36D, Melamaruthur (village), Duraisamypuram(Post), Ottapidaram Taluk, Tuticorin, 628105
Tamil Nadu, India

Sample Registration No. : E02-2409250910
Sample Name : Ambient Air Quality
Sample Condition : Good

Received On : 25-09-2024
Commenced On : 25-09-2024
Completed On : 30-09-2024
Date of Report : 30-09-2024

Sample Details (if any)

Sample Submission Type : Sampled by Lab Rep
Sampling Location : Near Batching Plant
Environment Condition : Good
Sampling Procedure : ITC/CHN/GSOP/001
Customer Reference : Test Request Form/24/09/2024
Test Report as per : NAAQ Norms

S. No. Sampling Information:

(a) Date of Monitoring , - : 23.09.24-24.09.24
(b) Duration of Monitoring , minutes : 1440
(c) Avg. Ambient Temperature , °C : 31
(d) Relative Humidity , %(Avg.) : 66
(e) Sky Appearance , - : Clear sky

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**Ambient Air Quality Parameters**				
1	Carbon Monoxide (CO)	mg/m3	IS 5182(Part-10): 1999	BDL (DL: 1.0)	2 Max*

NOTE : NAAQ: National Ambient Air Quality, Instrument used: Respirable Dust Sampler(RDS), Fine Dust Sampler(FDS), Multigas Analyser,Low Flow Air Sampler, BDL: Below Detection Limit, DL: Detection Limit. * As per NAAQ Norms 8 hours Limit

REMARKS : The above sample complies with NAAQ Norms respect to the above tests.

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

30/09/2024
Chinnaraja
Verified by

30/09/2024
Sakthivel
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Interstellar Testing Centre Private Limited

Since 1988

TC-5952

Test Report No. : **ICE-2409300911 (1)**
NABL ULR No. : **TC695224000015930F**

ORIGINAL

Issued To :

Coastal Energen Private Limited
2X600 MW Mutiara Thermal Power Plant , 4/36D, Melamaruthur (village), Duraisamypuram(Post), Ottapidaram Taluk, Tuticorin, 628105
Tamil Nadu, India

Sample Registration No. : E02-2409250911
Sample Name : Ambient Air Quality
Sample Condition : Good

Received On : 25-09-2024
Commenced On : 25-09-2024
Completed On : 30-09-2024
Date of Report : 30-09-2024

Sample Details (if any)

Sample Submission Type : Sampled by Lab Rep
Sampling Location : Near Watch Tower-8
Environment Condition : Good
Sampling Procedure : ITC/CHN/GSOP/001
Customer Reference : Test Request Form/24/09/2024
Test Report as per : NAAQ Norms

S. No. Sampling Information:

(a) Date of Monitoring , - : 23.09.24-24.09.24
(b) Duration of Monitoring , minutes : 1440
(c) Avg. Ambient Temperature , °C : 31
(d) Relative Humidity , %(Avg.) : 66
(e) Sky Appearance , - : Clear sky

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**Ambient Air Quality Parameters**				
1	Sulphur Dioxide (SO2)	µg/m3	IS 5182(Part-2): 2001	7.41	80 Max
2	Nitrogen Dioxide (NO2)	µg/m3	IS 5182(Part -6): 2006	18.91	80 Max
3	Particulate Matter (PM 10)	µg/m3	IS 5182(Part-23): 2006	61.26	100 Max
4	Particulate Matter (PM 2.5)	µg/m3	IS 5182(Part-24): 2019	27.44	60 Max
5	Ozone (O3)	µg/m3	IS 5182(Part-9): 1974	15.43	180 Max*
6	Lead (pb)	µg/m3	IS 5182(Part-22): 2004	BDL (DL: 0.02)	1.0 Max
7	Ammonia (NH3)	µg/m3	IS 5182(Part-25): 2018	7.90	400 Max
8	Benzene (C6H6)	µg/m3	IS 5182(Part-11): 2006	BDL (DL: 1.0)	5 Max**
9	Benzo (a) Pyrene (Particulate Phase only)	ng/m3	IS 5182(Part-12): 2004	BDL (DL: 1.0)	1 Max**
10	Arsenic (As)	ng/m3	USEPA Method	BDL (DL: 2.0)	6 Max**

30/09/2024
Chinnaraja
Verified by

30/09/2024
Sakthivel
Authorised by

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Website : www.itclabs.com

			IO 3.4		
11	Nickel (Ni)	ng/m3	USEPA Method IO 3.4	BDL (DL: 2.0)	20 Max**
12	Mercury as Hg	µg/m3	USEPA Method IO 3.5	BDL (DL: 0.002)	NA

NOTE : NAAQ: National Ambient Air Quality, Instrument used: Respirable Dust Sampler(RDS), Fine Dust Sampler(FDS), Multigas Analyser,Low Flow Air Sampler, BDL: Below Detection Limit, DL: Detection Limit. * As per NAAQ Norms 1 hour Limit, ** As per NAAQ Norms Annual Limit

REMARKS : The above sample complies with NAAQ Norms respect to the above tests.

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

30/09/2024
Chinnaraja
Verified by

30/09/2024
Sakthivel
Authorised by

Interstellar Testing Centre Private Limited
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Interstellar Testing Centre Private Limited

Since 1988

Test Report No. : ICE-2409300911 (2)

ORIGINAL

Issued To :

Coastal Energen Private Limited
2X600 MW Mutiara Thermal Power Plant , 4/36D, Melamaruthur (village), Duraisamypuram(Post), Ottapidaram Taluk, Tuticorin, 628105
Tamil Nadu, India

Sample Registration No. : E02-2409250911
Sample Name : Ambient Air Quality
Sample Condition : Good

Received On : 25-09-2024
Commenced On : 25-09-2024
Completed On : 30-09-2024
Date of Report : 30-09-2024

Sample Details (if any)

Sample Submission Type : Sampled by Lab Rep
Sampling Location : Near Watch Tower-8
Environment Condition : Good
Sampling Procedure : ITC/CHN/GSOP/001
Customer Reference : Test Request Form/24/09/2024
Test Report as per : NAAQ Norms

S. No. Sampling Information:

(a)	Date of Monitoring , -	: 23.09.24-24.09.24
(b)	Duration of Monitoring , minutes	: 1440
(c)	Avg. Ambient Temperature , °C	: 31
(d)	Relative Humidity , %(Avg.)	: 66
(e)	Sky Appearance , -	: Clear sky

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**Ambient Air Quality Parameters**				
1	Carbon Monoxide (CO)	mg/m3	IS 5182(Part-10): 1999	BDL (DL: 1.0)	2 Max*

NOTE : NAAQ: National Ambient Air Quality, Instrument used: Respirable Dust Sampler(RDS), Fine Dust Sampler(FDS), Multigas Analyser,Low Flow Air Sampler, BDL: Below Detection Limit, DL: Detection Limit. * As per NAAQ Norms 8 hours Limit

REMARKS : The above sample complies with NAAQ Norms respect to the above tests.

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

30/09/2024
Chinnaraja
Verified by

30/09/2024
Sakthivel
Authorised by

Interstellar Testing Centre Private Limited
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Interstellar Testing Centre Private Limited

Since 1988

TEST REPORT

TC - 6957

ORIGINAL

Test Report No. : **ICE-2407051175**

NABL ULR No. : **TC695224000010092F**

Issued To :

Coastal Energen Private Limited

2X600 MW Mutiara Thermal Power Plant

4/36D, Melamaruthur (village), Duraisamypuram(Post), Ottapidaram Taluk, Tuticorin, 628105
Tamil Nadu, India

Sample Registration No. : E02-2406291175
Sample Name : Stack Emission
Sample Condition : Good

Sample Details (if any)

Sample Submission Type : Sampled by Lab Rep
Sampling Location : Boiler Unit-1 (600 MW)
Sampling Procedure : ITC/CHN/GSOP/001
Customer Reference : Test Request Form/29/06/2024
Test Report as per : TNPCB Norms

Received On : 29-06-2024
Commenced On : 29-06-2024
Completed On : 04-07-2024
Date of Report : 05-07-2024

S. No. Sampling Information:

(a) Date of Monitoring : 27-06-2024
(b) Ambient Temperature (C) : 33.0

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**Stack Emission**				
1	Oxides of Nitrogen as NOx	mg/Nm3	IS 11255: (Part-7)	99.6	450 Max
2	Carbon Monoxide as CO	%	IS 13270	BDL(DL:0.2)	1 Max
3	Particulate Matter as PM	mg/Nm3	IS 11255: (Part-1)	24.8	50 Max
4	Stack Temperature	°C	IS 11255: (Part-3)	117	Not Available
5	Velocity	m/s	IS 11255: (Part-3)	26.2	Not Available
6	Flow Rate	Nm3/hr.	IS 11255: (Part-3)	3183010	Not Available
7	Sulphur Dioxide as SO2	mg/Nm3	IS 11255: (Part-2)	145	200 Max
8	Carbon Dioxide as CO2	%	IS 13270	12.8	Not Available
9	Oxygen as O2	%	IS 13270	6.5	Not Available
10	Moisture	%	IS 11255: (Part-3)	6.06	Not Available
11	Lead as Pb	mg/Nm3	USEPA Method 29	BDL (DL: 0.1)	Not Available
12	Arsenic as As	mg/Nm3	USEPA Method 29	BDL (DL: 0.1)	Not Available
13	Mercury as Hg	mg/Nm3	USEPA Method 29	BDL (DL: 0.01)	0.03 Max
14	Chromium as Cr	mg/Nm3	USEPA Method 29	BDL (DL: 0.1)	Not Available

NOTE : TNPCB: Tamilnadu Pollution Control Board, Instrument used: Fluegas Analyser, Stack Sampler, BDL: Below Detection Limit, DL: Detection Limit

REMARKS : The above sample complies with TNPCB Norms respect to the above tests.

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

05/07/2024
Chinnaraja
Verified by

05/07/2024
Sakthivel
Authorised by

Interstellar Testing Centre Private Limited

Plot No. 2, S.No. 12/2A, Industrial Estate,
Perungudi, Sholinganallur Taluk, Chennai - 600 096.
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Website : www.itclabs.com

Interstellar Testing Centre Private Limited

Since 1988

TEST REPORT

TC - 6952

Test Report No. : ICE-2407051176
NABL ULR No. : TC695224000010091F

ORIGINAL

Issued To :

Coastal Energen Private Limited

2X600 MW Mutiara Thermal Power Plant
4/36D, Melamaruthur (village), Duraisamypuram(Post), Ottapidaram Taluk,
Tuticorin, 628105
Tamil Nadu, India

Sample Registration No. : E02-2406291176
Sample Name : Stack Emission
Sample Condition : Good

Sample Details (if any)

Sample Submission Type : Sampled by Lab Rep
Sampling Location : Boiler Unit-2 (600 MW)
Sampling Procedure : ITC/CHN/GSOP/001
Customer Reference : Test Request Form/29/06/2024
Test Report as per : TNPCB Norms

Received On : 29-06-2024
Commenced On : 29-06-2024
Completed On : 04-07-2024
Date of Report : 05-07-2024

S. No. Sampling Information:
(a) Date of Monitoring : 27-06-2024
(b) Ambient Temperature (C) : 33.0

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**Stack Emission**				
1	Oxides of Nitrogen as NOx	mg/Nm3	IS 11255: (Part-7)	114.70	450 Max
2	Carbon Monoxide as CO	%	IS 13270	BDL(DL:0.2)	1 Max
3	Particulate Matter as PM	mg/Nm3	IS 11255: (Part-1)	26.45	50 Max
4	Stack Temperature	°C	IS 11255: (Part-3)	120	Not Available
5	Velocity	m/s	IS 11255: (Part-3)	26.5	Not Available
6	Flow Rate	Nm3/hr.	IS 11255: (Part-3)	3222134	Not Available
7	Sulphur Dioxide as SO2	mg/Nm3	IS 11255 (Part-2)	172.0	200 Max
8	Carbon Dioxide as CO2	%	IS 13270	12.7	Not Available
9	Oxygen as O2	%	IS 13270	6.6	Not Available
10	Moisture	%	IS 11255: (Part-3)	5.86	Not Available
11	Lead as Pb	mg/Nm3	USEPA Method 29	BDL (DL: 0.1)	Not Available
12	Arsenic as AS	mg/Nm3	USEPA Method 29	BDL (DL: 0.1)	Not Available
13	Mercury as Hg	mg/Nm3	USEPA Method 29	BDL (DL: 0.01)	0.03 Max
14	Chromium(as Cr)	mg/Nm3	USEPA Method 29	BDL (DL: 0.1)	Not Available

NOTE : TNPCB: Tamilnadu Pollution Control Board, Instrument used: Fluegas Analyser, Stack Sampler, BDL: Below Detection Limit, DL: Detection Limit

REMARKS : The above sample complies with TNPCB Norms respect to the above tests.

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

05/07/2024
Chinnaraja
Verified by

05/07/2024
Sakthivel
Authorised by

Interstellar Testing Centre Private Limited
Plot No. 2, S.No. 12/2A, Industrial Estate,
Perungudi, Sholinganallur Taluk, Chennai - 600 096.
Ph : 044 - 24962512
Email : itclabs.chennai@itclabs.com
Website : www.itclabs.com

Interstellar Testing Centre Private Limited

Since 1988

TC-6952

Test Report No. : ICE-2409301015
NABL ULR No. : TC695224000016109F

ORIGINAL

Issued To :

Coastal Energen Private Limited
2X600 MW Mutiara Thermal Power Plant , 4/36D, Melamaruthur (village), Duraisamypuram(Post), Ottapidaram Taluk, Tuticorin, 628105
Tamil Nadu, India

Sample Registration No. : E02-2409251015
Sample Name : Stack Emission
Sample Condition : Good

Received On : 25-09-2024
Commenced On : 25-09-2024
Completed On : 30-09-2024
Date of Report : 30-09-2024

Sample Details (if any)

Sample Submission Type : Sampled by Lab Rep
Sampling Location : Boiler Unit - 1 (600MW)
Environment Condition : Good
Sampling Procedure : ITC/CHN/GSOP/001
Customer Reference : Test Request Form/24/09/2024
Test Report as per : TNPCB Norms

S. No. Sampling Information:
(a) Date of Monitoring : 23.09.24

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**Stack Emission**				
1	Oxides of Nitrogen as NOx	mg/Nm3	IS 11255: (Part-7)	117.4	450 Max
2	Carbon Monoxide as CO	%	IS 13270	BDL(DL:0.2)	1 Max
3	Particulate Matter as PM	mg/Nm3	IS 11255: (Part-1)	22.17	50 Max
4	Stack Temperature	°C	IS 11255: (Part-3)	109	Not Available
5	Velocity	m/s	IS 11255: (Part-3)	24.8	Not Available
6	Flow Rate	Nm3/hr.	IS 11255: (Part-3)	3050516	Not Available
7	Sulphur Dioxide as SO2	mg/Nm3	IS 11255 (Part-2)	134.6	200 Max
8	Carbon Dioxide as CO2	%	IS 13270	13.4	Not Available
9	Oxygen as O2	%	IS 13270	6.2	Not Available
10	Moisture	%	IS 11255: (Part-3)	0.87	Not Available
11	Lead as Pb	mg/Nm3	USEPA Method 29	BDL (DL: 0.1)	Not Available
12	Arsenic as As	mg/Nm3	USEPA Method 29	BDL (DL: 0.1)	Not Available
13	Mercury as Hg	mg/Nm3	USEPA Method 29	BDL (DL: 0.01)	0.03 Max
14	Chromium as Cr	mg/Nm3	USEPA Method 29	BDL (DL: 0.1)	Not Available

NOTE : TNPCB: Tamilnadu Pollution Control Board, Instrument used: Fluegas Analyser, Stack Sampler, BDL: Below Detection Limit, DL: Detection Limit

REMARKS : The above sample complies with TNPCB Norms respect to the above tests.

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

30/09/2024
Chinnaraja
Verified by

30/09/2024
Sakthivel
Authorised by

Interstellar Testing Centre Private Limited
Plot No. 2, S.No. 12/2A, Industrial Estate,
Perungudi, Sholinganallur Taluk, Chennai - 600 096.
Ph : 044 - 24962512
Email : itclabs.chennai@itclabs.com
Website : www.itclabs.com

Interstellar Testing Centre Private Limited

Since 1988

TC-6952

Test Report No. : **ICE-2409301016**
NABL ULR No. : **TC695224000016108F**

ORIGINAL

Issued To :

Coastal Energen Private Limited
2X600 MW Mutiara Thermal Power Plant , 4/36D, Melamaruthur (village), Duraisamypuram(Post), Ottapidaram Taluk, Tuticorin, 628105
Tamil Nadu, India

Sample Registration No. : E02-2409251016
Sample Name : Stack Emission
Sample Condition : Good

Received On : 25-09-2024
Commenced On : 25-09-2024
Completed On : 30-09-2024
Date of Report : 30-09-2024

Sample Details (if any)

Sample Submission Type : Sampled by Lab Rep
Sampling Location : Boiler Unit - 2 (600MW)
Environment Condition : Good
Sampling Procedure : ITC/CHN/GSOP/001
Customer Reference : Test Request Form/24/09/2024
Test Report as per : TNPCB Norms

S. No. Sampling Information:
(a) Date of Monitoring : 23.09.24

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**Stack Emission**				
1	Oxides of Nitrogen as NOx	mg/Nm3	IS 11255: (Part-7)	129.8	450 Max
2	Carbon Monoxide as CO	%	IS 13270	BDL(DL:0.2)	1 Max
3	Particulate Matter as PM	mg/Nm3	IS 11255: (Part-1)	25.14	50 Max
4	Stack Temperature	°C	IS 11255: (Part-3)	114	Not Available
5	Velocity	m/s	IS 11255: (Part-3)	25.2	Not Available
6	Flow Rate	Nm3/hr.	IS 11255: (Part-3)	3054995	Not Available
7	Sulphur Dioxide as SO2	mg/Nm3	IS 11255 (Part-2)	156.4	200 Max
8	Carbon Dioxide as CO2	%	IS 13270	13.1	Not Available
9	Oxygen as O2	%	IS 13270	6.4	Not Available
10	Moisture	%	IS 11255: (Part-3)	0.98	Not Available
11	Lead as Pb	mg/Nm3	USEPA Method 29	BDL (DL: 0.1)	Not Available
12	Arsenic as As	mg/Nm3	USEPA Method 29	BDL (DL: 0.1)	Not Available
13	Mercury as Hg	mg/Nm3	USEPA Method 29	BDL (DL: 0.01)	0.03 Max
14	Chromium as Cr	mg/Nm3	USEPA Method 29	BDL (DL: 0.1)	Not Available

NOTE : TNPCB: Tamilnadu Pollution Control Board, Instrument used: Fluegas Analyser, Stack Sampler, BDL: Below Detection Limit, DL: Detection Limit

REMARKS : The above sample complies with TNPCB Norms respect to the above tests.

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

30/09/2024
Chinnaraja
Verified by

30/09/2024
Sakthivel
Authorised by

Interstellar Testing Centre Private Limited
Plot No. 2, S.No. 12/2A, Industrial Estate,
Perungudi, Sholinganallur Taluk, Chennai - 600 096.
Ph : 044 - 24962512
Email : itclabs.chennai@itclabs.com
Website : www.itclabs.com

ANNEXURE - 2

COASTAL ENERGEN PVT LTD

C&O GROUP






- Environment Clearance Compliance Status
- Monthly Environment Report
- Monthly Ash Report
- CIRP
- CSR
- List of Directors
- Notice of Annual General Meeting
- Annual Return

Welcome to Coastal Energen Pvt. Ltd.

Coal and Oil Group is a Rs. 2400 crores (US$ 550 million) Integrated Energy Company involved in various aspects of Energy supplies including Coal trading, Mining, Shipping, Logistics and Power Generation.

Coastal Energen Pvt Ltd (ENERGEN), the Power Generating Flagship Company of the Coal and Oil Group, is setting up a 1200 MW coal fired thermal power plant in the district of Tuticorin in the State of Tamil Nadu , India.

Our maiden power project in Tuticorin, Tamil Nadu, South India is a logical extension of our multi disciplinary capabilities building on our diverse strengths and leveraging our varied experiences in "Fuel Management" which gives Coastal Energen a distinct advantage as a low cost Power Producer.

Approximately 60% of the cost of power comprises of fuel cost. Our group is one of the top suppliers of imported coal to some of the leading private and public power producers in India like Tata, Reliance, Torrent Power, Gujarat Electricity Board, Maharashtra State Electricity Board, Calcutta Electric and others. With such experience under our belt and a top notch management team guiding the project, we are in a comfortable position to effectively manage the cost of fuel and finally the cost of power generated.

Our Projects

Tuticorin has been identified by both the Central Government of India and State Government of Tamilnadu as a power generating centre for southern Tamilnadu lying as it does in the middle of the power corridor.

Situated only 13 kms from Tuticorin town, our project enjoys the following advantages:

- Close proximity to a major town (13 kms)
- Within 21 kms of a major port
- Excellent road, Rail & Air connectivity
- Excellent grid connectivity

The project has achieved fast progress since its inception.

- Land fully acquired
- PPA Agreement Signed
- MOEF Clearance issued
- Funding fully tied up and secured
- BTG order finalized
- Discussion with PGCIL for power evacuation

- Engineering Consultants appointed
- Manpower in place
- Site preparation completed
- Geo-technical investigations completed
- Construction water and power in place
- Water allocated by TWAD Board for process requirements

Integrated Energy Solutions

ANNEXURE - 3

MOXIE POWER GENERATION LIMITED

2 X 600 MW THERMAL POWER PLANT

BOREWELL WATER ANALYSIS REPORT - APRIL'24

Sample Collected on 09.04.2024

S. No	PARAMETERS	UNIT	SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4
1	pH	-	7.03	7.54	7.45	7.17
2	Electrical conductivity	(µs/cm)	7140	18640	10740	6004
3	Total Suspended Solids	ppm	9	12	40	9
4	Total Dissolved Solids	ppm	4641	12116	6981	3903
5	Total Hardness	ppm	794	1548	1198	648
6	Calcium Hardness	ppm	548	940	790	452
7	Magnesium Hardness	ppm	246	608	408	196
8	Total Chloride	ppm	1580	2980	2420	1360
9	Sodium	ppm	710	1170	1050	610
10	Potassium	ppm	28	56	48	36
11	Lead	ppm	BDL	BDL	BDL	BDL
12	Boron	ppm	0.08	0.06	0.09	0.07
13	BOD	mg/l	1.9	1.6	2.1	2.0
14	DO	mg/l	5.6	5.0	5.2	5.1
15	COD	mg/l	34	52	46	42
16	Sulphate	ppm	352	616	482	260
17	Oil & Grease	mg/l	BDL	BDL	BDL	BDL
18	Mercury	ppm	BDL	BDL	BDL	BDL
19	Arsenic	ppm	BDL	BDL	BDL	BDL
20	Chromium	ppm	BDL	BDL	BDL	BDL
Remarks			Nil			

Borewell Locations:

Sl.No.	Sample Identification	Borewell Location
1	SAMPLE 1	South West of Ash Bund (Near CAAQMS-3)
2	SAMPLE 2	South of Ash Bund
3	SAMPLE 3	South East of Ash Bund
4	SAMPLE 4	North East of Ash Bund

SAMPLE COLLECTED BY

(V.SIVAPAUL)

LAB CHEMIST

(I. Vasanthan)

MOXIE POWER GENERATION LIMITED

2 X 600 MW THERMAL POWER PLANT

BOREWELL WATER ANALYSIS REPORT - MAY'24

Sample Collected on 08.05.2024

S. No	PARAMETERS	UNIT	SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4
1	pH	-	7.24	7.88	6.95	7.36
2	Electrical conductivity	(µs/cm)	6540	16550	9630	5870
3	Total Suspended Solids	ppm	6	10	21	14
4	Total Dissolved Solids	ppm	4251	10758	6260	3816
5	Total Hardness	ppm	794	1548	1198	648
6	Calcium Hardness	ppm	548	940	790	452
7	Magnesium Hardness	ppm	230	510	436	214
8	Total Chloride	ppm	2116	3348	2820	1787
9	Sodium	ppm	456	920	822	545
10	Potassium	ppm	30	62	54	40
11	Lead	ppm	BDL	BDL	BDL	BDL
12	Boron	ppm	0.06	0.09	0.1	0.05
13	BOD	mg/l	2.9	3.6	4.2	3.4
14	DO	mg/l	5.2	6.1	4.9	5.5
15	COD	mg/l	45	57	50	42
16	Sulphate	ppm	375	540	420	334
17	Oil & Grease	mg/l	BDL	BDL	BDL	BDL
18	Mercury	ppm	BDL	BDL	BDL	BDL
19	Arsenic	ppm	BDL	BDL	BDL	BDL
20	Chromium	ppm	BDL	BDL	BDL	BDL
Remarks		Nil				

Borewell Locations:

Sl.No.	Sample Identification	Borewell Location
1	SAMPLE 1	South West of Ash Bund (Near CAAQMS-3)
2	SAMPLE 2	South of Ash Bund
3	SAMPLE 3	South East of Ash Bund
4	SAMPLE 4	North East of Ash Bund

SAMPLE COLLECTED BY
(V. SIVAPPAL)

LAB CHEMIST
(L. Vasanthan)

MOXIE POWER GENERATION LIMITED

2 X 600 MW THERMAL POWER PLANT

BOREWELL WATER ANALYSIS REPORT - JUNE'24

Sample Collected on 15.06.2024

S. No	PARAMETERS	UNIT	SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4
1	pH	-	7.38	6.92	7.49	7.83
2	Electrical conductivity	(µs/cm)	7440	18800	18240	12380
3	Total Suspended Solids	ppm	15	19	28	23
4	Total Dissolved Solids	ppm	4836	12220	11856	8047
5	Total Hardness	ppm	636	2700	2560	1420
6	Calcium Hardness	ppm	480	1380	1280	740
7	Magnesium Hardness	ppm	156	1320	1280	680
8	Total Chloride	ppm	1612	6488	3284	1790
9	Sodium	ppm	722	1210	1340	725
10	Potassium	ppm	26	55	66	48
11	Lead	ppm	BDL	BDL	BDL	BDL
12	Boron	ppm	0.12	0.05	0.08	0.06
13	BOD	mg/l	2.1	2.4	2	1.8
14	DO	mg/l	5.7	5.5	5.5	5.1
15	COD	mg/l	30	45	38	46
16	Sulphate	ppm	378	714	510	334
17	Oil & Grease	mg/l	BDL	BDL	BDL	BDL
18	Mercury	ppm	BDL	BDL	BDL	BDL
19	Arsenic	ppm	BDL	BDL	BDL	BDL
20	Chromium	ppm	BDL	BDL	BDL	BDL
Remarks		Nil				

Borewell Locations:

Sl.No.	Sample Identification	Borewell Location
1	SAMPLE 1	South West of Ash Bund (Near CAAQMS-3)
2	SAMPLE 2	South of Ash Bund
3	SAMPLE 3	South East of Ash Bund
4	SAMPLE 4	North East of Ash Bund

(V. SIVAPRIYA)

SAMPLE COLLECTED BY

(I. Vasantha)

LAB CHEMIST

MOXIE POWER GENERATION LIMITED

2 X 600 MW THERMAL POWER PLANT

BOREWELL WATER ANALYSIS REPORT - JULY'24

Sample Collected on 15.07.2024

S. No	PARAMETERS	UNIT	SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4
1	pH	-	7.62	7.01	7.6	8.09
2	Electrical conductivity	(µs/cm)	8340	17330	21640	7020
3	Total Suspended Solids	ppm	7	47	18	11
4	Total Dissolved Solids	ppm	5421	11265	14066	4563
5	Total Hardness	ppm	724	2660	2810	764
6	Calcium Hardness	ppm	440	1580	1670	460
7	Magnesium Hardness	ppm	284	1080	1140	304
8	Total Chloride	ppm	1670	6210	4160	698
9	Sodium	ppm	785	1102	1245	694
10	Potassium	ppm	36	62	78	28
11	Lead	ppm	BDL	BDL	BDL	BDL
12	Boron	ppm	0.08	0.12	0.14	0.06
13	BOD	mg/l	2.6	3.6	4	2.1
14	DO	mg/l	4.3	4.5	4.8	4.0
15	COD	mg/l	38	54	66	34
16	Sulphate	ppm	498	895	1045	411
17	Oil & Grease	mg/l	BDL	BDL	BDL	BDL
18	Mercury	ppm	BDL	BDL	BDL	BDL
19	Arsenic	ppm	BDL	BDL	BDL	BDL
20	Chromium	ppm	BDL	BDL	BDL	BDL
Remarks		Nil				

Borewell Locations:

Sl.No.	Sample Identification	Borewell Location
1	SAMPLE 1	South West of Ash Bund (Near CAAQMS-3)
2	SAMPLE 2	South of Ash Bund
3	SAMPLE 3	South East of Ash Bund
4	SAMPLE 4	North East of Ash Bund

V. SIVAPAUL

SAMPLE COLLECTED BY

L. Vasanth

LAB CHEMIST

(L. Vasanthan)

MOXIE POWER GENERATION LIMITED

2 X 600 MW THERMAL POWER PLANT

BOREWELL WATER ANALYSIS REPORT - AUGUST'24

Sample Collected on 10.08.2024

S. No	PARAMETERS	UNIT	SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4
1	pH	-	7.87	6.88	7.48	7.40
2	Electrical conductivity	(µs/cm)	7690	18640	22000	6985
3	Total Suspended Solids	ppm	4	32	44	7
4	Total Dissolved Solids	ppm	4999	12116	14300	4540
5	Total Hardness	ppm	685	2750	2860	790
6	Calcium Hardness	ppm	400	1640	1700	480
7	Magnesium Hardness	ppm	285	1110	1160	310
8	Total Chloride	ppm	1654	4652	6854	1204
9	Sodium	ppm	754	1149	1284	625
10	Potassium	ppm	34	66	76	26
11	Lead	ppm	BDL	BDL	BDL	BDL
12	Boron	ppm	0.09	0.11	0.15	0.07
13	BOD	mg/l	2.6	3.8	4.9	2.2
14	DO	mg/l	4.1	4.5	5.0	4.0
15	COD	mg/l	36	58	69	32
16	Sulphate	ppm	482	935	1094	424
17	Oil & Grease	mg/l	BDL	BDL	BDL	BDL
18	Mercury	ppm	BDL	BDL	BDL	BDL
19	Arsenic	ppm	BDL	BDL	BDL	BDL
20	Chromium	ppm	BDL	BDL	BDL	BDL
Remarks		Nil				

Borewell Locations:

Sl.No.	Sample Identification	Borewell Location
1	SAMPLE 1	South West of Ash Bund (Near CAAQMS-3)
2	SAMPLE 2	South of Ash Bund
3	SAMPLE 3	South East of Ash Bund
4	SAMPLE 4	North East of Ash Bund

V. Sivappaul

(V. SIVAPPAUL)

SAMPLE COLLECTED BY

L. Vasu

LAB CHEMIST

(L. Vasanthan)

MOXIE POWER GENERATION LIMITED

2 X 600 MW THERMAL POWER PLANT

BOREWELL WATER ANALYSIS REPORT -SEPTEMBER'24

Sample Collected on 12.09.2024

S. No	PARAMETERS	UNIT	SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4
1	pH	-	7.90	7.54	7.65	7.68
2	Electrical conductivity	(µs/cm)	7942	12540	14245	7120
3	Total Suspended Solids	ppm	4	5	7	3
4	Total Dissolved Solids	ppm	5162	8151	9259	4628
5	Total Hardness	ppm	765	1150	1245	690
6	Calcium Hardness	ppm	460	690	750	415
7	Magnesium Hardness	ppm	305	460	495	275
8	Total Chloride	ppm	1720	2254	2946	1615
9	Sodium	ppm	765	1032	1142	712
10	Potassium	ppm	36	46	50	32
11	Lead	ppm	BDL	BDL	BDL	BDL
12	Boron	ppm	0.08	0.1	0.12	0.06
13	BOD	mg/l	2.6	3.9	4.3	2.0
14	DO	mg/l	4.1	4.6	4.8	4.0
15	COD	mg/l	34	54	62	30
16	Sulphate	ppm	488	785	954	432
17	Oil & Grease	mg/l	BDL	BDL	BDL	BDL
18	Mercury	ppm	BDL	BDL	BDL	BDL
19	Arsenic	ppm	BDL	BDL	BDL	BDL
20	Chromium	ppm	BDL	BDL	BDL	BDL
Remarks		Nil				

Borewell Locations:

Sl.No.	Sample Identification	Borewell Location
1	SAMPLE 1	South West of Ash Bund (Near CAAQMS-3)
2	SAMPLE 2	South of Ash Bund
3	SAMPLE 3	South East of Ash Bund
4	SAMPLE 4	North East of Ash Bund

(V. SIVAPRAKASH)

SAMPLE COLLECTED BY

(L. Vasantharaj)

LAB CHEMIST

Interstellar Testing Centre Private Limited

TEST REPORT

TC-6952

Test Report No. : ICE-2409160002
NABL ULR No. : TC695224000014662F

ORIGINAL

Issued To :

Coastal Energen Private Limited
2X600 MW Mutiara Thermal Power Plant , 4/36D, Melamaruthur (village), Duraisamypuram(Post), Ottapidaram Taluk, Tuticorin, 628105
Tamil Nadu, India

Sample Registration No. : E02-2409020002
Sample Name : Ground Water
Sample Condition : Good

Received On : 02-09-2024
Commenced On : 02-09-2024
Completed On : 12-09-2024
Date of Report : 16-09-2024

Sample Details (if any)

Sample Quantity : 2.5 Lit x 1 No
Packaging Mode : Canned
Sample Submission Type : Sampled by Lab Rep
Date of Sampling : 31.08.2024
Sampling Location : Borewell Water - 01 - South West of Ash Pond
Enviroment Condition : Good
Sampling Procedure : ITC/CHN/GSOP/001
Customer Reference : Test Request Form/31/08/2024
Test Report as per : NA

Description: Slightly turbid liquid

S. No.	Parameter	Measuring Unit	Instrument	Method	Result
	Discipline : Chemical				
	Group : Water				
(I)	**Organoleptic &Physical Parameter**				
1	Colour	Hazen Unit	Visual	IS 3025(Part-4): 2021	20.0
2	Odour	NA	Organoleptic	IS 3025(Part-5): 2017	Agreeable
3	pH Value	NA	pH Meter	IS 3025(Part-11): 2022	6.50
4	Taste	NA	Organoleptic	IS 3025(Part-8): 2023	Disagreeable
5	Turbidity	NTU	Turbidity Meter	IS 3025(Part-10): 2023	12.5
6	Total Dissolved Solids	mg/L	Balance, Oven, Waterbath	IS 3025(Part-16): 2023	4830
(II)	**Parameters Concerning Undesirable Substances in excess amount**				
1	Ammonia(as total ammonia-N)	mg/L	UV-Spectrophotometer	IS 3025(Part-34/Sec 4): 2022	BLQ(LOQ:0.1)
2	Anionic detergent(as MBAS)	mg/L	UV-Spectrophotometer	IS 13428: 2005(RA 2018)-Annex K	BLQ(LOQ:0.05)
3	Sulphate(as SO4)	mg/L	UV-Spectrophotometer	IS 3025(Part-24): 2022	1078
4	Calcium(as Ca)	mg/L	Titration	IS 3025(Part-40): 2019	141
5	Chloramines(as Cl2)	mg/L	UV-Spectrophotometer	IS 3025 (Part 26): 2021	BLQ(LOQ:0.1)
6	Fluoride(as F)	mg/L	Visual	IS 3025 (Part - 60): 2019	2.3
7	Free Residual Chlorine	mg/L	UV-	IS 3025 (Part 26): 2021	BLQ(LOQ:0.1)

16/09/2024
Prabakaran
Authorized Signatory(Microbiology)

16/09/2024
Chinnaraja
Verified by

16/09/2024
Vijay Anand
Authorised by

Interstellar Testing Centre Private Limited
Plot No. 2, S.No. 12/2A, Industrial Estate,
Perungudi, Sholinganallur Taluk, Chennai - 600 096.
Ph : 044 - 24962512
Email : itclabs.chennai@itclabs.com
Website : www.itclabs.com

			Spectrophotometer		
8	Magnesium(as Mg)	mg/L	By Calculation	IS 3025(Part-46): 2023	80.5
9	Manganese(as Mn)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.005)
10	Nitrate(as NO3)	mg/L	UV-Spectrophotometer	IS 3025(Part-34/Sec 4): 2022	21
11	Phenolic compounds(as C6H5OH)	mg/L	UV-Spectrophotometer	IS 3025 (Part-43/Sec 1): 2022	BLQ(LOQ:0.001)
12	Selenium(as Se)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	0.014
13	Silver(as Ag)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.005)
14	Iron(as Fe)	mg/L	UV-Spectrophotometer	IS 3025 (Part-53): 2019	0.48
15	Sulphide(as H2S)	mg/L	UV-Spectrophotometer	IS 3025(Part-29): 2022	BLQ(LOQ:0.04)
16	Total Alkalinity(as CaCO3)	mg/L	Titration	IS 3025(Part-23): 2023	291
17	Total Hardness(as CaCO3)	mg/L	Titration	IS 3025 (Part-21): 2019	690
18	Zinc(as Zn)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	3.2
19	Aluminium(as Al)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	0.32
20	Chloride(as Cl)	mg/L	Titration	IS 3025(Part-32): 2019	939
21	Copper(as Cu)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.005)
22	Barium(as Ba)	mg/L	ICPOES	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.05)
23	Boron(as B)	mg/L	ICPOES	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	1.2
(III)	**Parameters Concerning Toxic Substances**				
1	Cadmium(as Cd)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.001)
2	Cyanide(asCN)	mg/L	UV-Spectrophotometer	IS 3025 (Part-27/Sec 1): 2021	BLQ(LOQ:0.01)
3	Lead(as Pb)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.005)

16/09/2024
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TC-6952

Test Report No. : ICE-2409160002
NABL ULR No. : TC695224000014662F

ORIGINAL

4	Mercury(as Hg)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.0005)
5	Molybdenum(as Mo)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.005)
6	Nickel(as Ni)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.005)
7	Total Arsenic(as As)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.005)
8	Total Chromium(as Cr)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.005)
(IV)	**General Parameters**				
1	Phenolphthalein Alkalinity (as CaCO3)	mg/L	Titration	IS 3025(Part-23): 2023	BLQ(LOQ:1.0)
	Discipline : Biological				
	Group : Water				
(V)	**Microbiological Tests**				
1	E.coli	MPN/100ml	Microbiological	IS 1622: 1981	<2
2	Total Coliform	MPN/100ml	Microbiological	IS 1622: 1981	<2

NOTE : BLQ - Below Limit of Quantification, LOQ - Limit Of Quantification, MPN - Most Probable Number.

REMARKS : NA

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

16/09/2024
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TEST REPORT

TC-6952

Test Report No. : ICE-2409160003
NABL ULR No. : TC695224000014663F

ORIGINAL

Issued To :

Coastal Energen Private Limited
2X600 MW Mutiara Thermal Power Plant , 4/36D, Melamaruthur (village), Duraisamypuram(Post), Ottapidaram Taluk, Tuticorin, 628105
Tamil Nadu, India

Sample Registration No. : E02-2409020003
Sample Name : Ground Water
Sample Condition : Good

Received On : 02-09-2024
Commenced On : 02-09-2024
Completed On : 12-09-2024
Date of Report : 16-09-2024

Sample Details (if any)

Sample Quantity : 2.5 Lit x 1 No
Packaging Mode : Canned
Sample Submission Type : Sampled by Lab Rep
Date of Sampling : 31.08.2024
Sampling Location : Borewell Water - 02 - South of Ash Pond
Enviroment Condition : Good
Sampling Procedure : ITC/CHN/GSOP/001
Customer Reference : Test Request Form/31/08/2024
Test Report as per : NA

Description: Brown coloured turbid liquid

S. No.	Parameter	Measuring Unit	Instrument	Method	Result
	Discipline : Chemical				
	Group : Water				
(I)	**Organoleptic &Physical Parameter**				
1	Colour	Hazen Unit	Visual	IS 3025(Part-4): 2021	40 True colour
2	Odour	NA	Organoleptic	IS 3025(Part-5): 2017	Disagreeable
3	pH Value	NA	pH Meter	IS 3025(Part-11): 2022	8.44
4	Taste	NA	Organoleptic	IS 3025(Part-8): 2023	Disagreeable
5	Turbidity	NTU	Turbidity Meter	IS 3025(Part-10): 2023	42.3
6	Total Dissolved Solids	mg/L	Balance, Oven, Waterbath	IS 3025(Part-16): 2023	9620
(II)	**Parameters Concerning Undesirable Substances in excess amount**				
1	Ammonia(as total ammonia-N)	mg/L	UV-Spectrophotometer	IS 3025(Part-34/Sec 4): 2022	BLQ(LOQ:0.1)
2	Anionic detergent(as MBAS)	mg/L	UV-Spectrophotometer	IS 13428: 2005(RA 2018)-Annex K	BLQ(LOQ:0.05)
3	Sulphate(as SO4)	mg/L	UV-Spectrophotometer	IS 3025(Part-24): 2022	1540
4	Calcium(as Ca)	mg/L	Titration	IS 3025(Part-40): 2019	458
5	Chloramines(as Cl2)	mg/L	UV-Spectrophotometer	IS 3025 (Part 26): 2021	BLQ(LOQ:0.1)
6	Fluoride(as F)	mg/L	Visual	IS 3025 (Part - 60): 2019	7.2
7	Free Residual Chlorine	mg/L	UV-	IS 3025 (Part 26): 2021	BLQ(LOQ:0.1)

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TEST REPORT

TC-6952

Test Report No. : ICE-2409160003
NABL ULR No. : TC695224000014663F

ORIGINAL

			Spectrophotometer		
8	Magnesium(as Mg)	mg/L	By Calculation	IS 3025(Part-46): 2023	99.3
9	Manganese(as Mn)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	0.052
10	Nitrate(as NO3)	mg/L	UV-Spectrophotometer	IS 3025(Part-34/Sec 4): 2022	6.5
11	Phenolic compounds(as C6H5OH)	mg/L	UV-Spectrophotometer	IS 3025 (Part-43/Sec 1): 2022	BLQ(LOQ:0.001)
12	Selenium(as Se)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	0.088
13	Silver(as Ag)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	0.008
14	Iron(as Fe)	mg/L	UV-Spectrophotometer	IS 3025 (Part-53): 2019	1.18
15	Sulphide(as H2S)	mg/L	UV-Spectrophotometer	IS 3025(Part-29): 2022	BLQ(LOQ:0.04)
16	Total Alkalinity(as CaCO3)	mg/L	Titration	IS 3025(Part-23): 2023	207
17	Total Hardness(as CaCO3)	mg/L	Titration	IS 3025 (Part-21): 2019	1550
18	Zinc(as Zn)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	22.4
19	Aluminium(as Al)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	0.15
20	Chloride(as Cl)	mg/L	Titration	IS 3025(Part-32): 2019	3327
21	Copper(as Cu)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.005)
22	Barium(as Ba)	mg/L	ICPOES	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.05)
23	Boron(as B)	mg/L	ICPOES	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	0.08
(III)	**Parameters Concerning Toxic Substances**				
1	Cadmium(as Cd)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.001)
2	Cyanide(asCN)	mg/L	UV-Spectrophotometer	IS 3025 (Part-27/Sec 1): 2021	BLQ(LOQ:0.01)
3	Lead(as Pb)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.005)

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TEST REPORT

TC-6952

Test Report No. : ICE-2409160003
NABL ULR No. : TC695224000014663F

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4	Mercury(as Hg)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.0005)
5	Molybdenum(as Mo)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.005)
6	Nickel(as Ni)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.005)
7	Total Arsenic(as As)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.005)
8	Total Chromium(as Cr)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.005)
(IV)	**General Parameters**				
1	Phenolphthalein Alkalinity (as CaCO3)	mg/L	Titration	IS 3025(Part-23): 2023	103
	Discipline : Biological				
	Group : Water				
(V)	**Microbiological Tests**				
1	E.coli	MPN/100ml	Microbiological	IS 1622: 1981	<2
2	Total Coliform	MPN/100ml	Microbiological	IS 1622: 1981	<2

NOTE : BLQ - Below Limit of Quantification, LOQ - Limit Of Quantification, MPN - Most Probable Number.

REMARKS : NA

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

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TEST REPORT

TC-6952

Test Report No. : ICE-2409160005
NABL ULR No. : TC695224000014665F

ORIGINAL

Issued To :

Coastal Energen Private Limited
2X600 MW Mutiara Thermal Power Plant , 4/36D, Melamaruthur (village), Duraisamypuram(Post), Ottapidaram Taluk, Tuticorin, 628105
Tamil Nadu, India

Sample Registration No. : E02-2409020005
Sample Name : Ground Water
Sample Condition : Good

Received On : 02-09-2024
Commenced On : 02-09-2024
Completed On : 12-09-2024
Date of Report : 16-09-2024

Sample Details (if any)

Sample Quantity : 2.5 Lit x 1 No
Packaging Mode : Canned
Sample Submission Type : Sampled by Lab Rep
Date of Sampling : 31.08.2024
Sampling Location : Borewell Water 03 - South East of Ash Pond
Enviroment Condition : Good
Sampling Procedure : ITC/CHN/GSOP/001
Customer Reference : Test Request Form/31/08/2024
Test Report as per : NA

Description: Slightly turbid liquid

S. No.	Parameter	Measuring Unit	Instrument	Method	Result	Specification
	Discipline : Chemical					
	Group : Water					
(I)	**Organoleptic &Physical Parameter**					
1	Colour	Hazen Unit	Visual	IS 3025(Part-4): 2021	15.0	Max 5 - Max 15
2	Odour	NA	Organoleptic	IS 3025(Part-5): 2017	Agreeable	Agreeable
3	pH Value	NA	pH Meter	IS 3025(Part-11): 2022	7.21	6.5-8.5 - No Relaxation
4	Taste	NA	Organoleptic	IS 3025(Part-8): 2023	Disagreeable	Agreeable
5	Turbidity	NTU	Turbidity Meter	IS 3025(Part-10): 2023	17.3	Max 1.0 - Max 5.0
6	Total Dissolved Solids	mg/L	Balance, Oven, Waterbath	IS 3025(Part-16): 2023	8740	Max 500 - Max 2000
(II)	**Parameters Concerning Undesirable Substances in excess amount**					
1	Ammonia(as total ammonia-N)	mg/L	UV-Spectrophotometer	IS 3025(Part-34/Sec 4): 2022	BLQ(LOQ:0.1)	Max 0.5 - No Relaxation
2	Anionic detergent(as MBAS)	mg/L	UV-Spectrophotometer	IS 13428: 2005(RA 2018)-Annex K	BLQ(LOQ:0.05)	Max 0.2 - Max 1.0
3	Sulphate(as SO4)	mg/L	UV-Spectrophotometer	IS 3025(Part-24): 2022	1343	Max 200 - Max 400
4	Calcium(as Ca)	mg/L	Titration	IS 3025(Part-40): 2019	458	Max 75 - Max 200
5	Chloramines(as Cl2)	mg/L	UV-Spectrophotometer	IS 3025 (Part 26): 2021	BLQ(LOQ:0.1)	Max 4 - No Relaxation
6	Fluoride(as F)	mg/L	Visual	IS 3025 (Part - 60): 2019	4.2	Max 1 - Max 1.5

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7	Free Residual Chlorine	mg/L	UV-Spectrophotometer	IS 3025 (Part 26): 2021	BLQ(LOQ:0.1)	Min 0.2 - Max 1.0
8	Magnesium(as Mg)	mg/L	By Calculation	IS 3025(Part-46): 2023	149	Max 30 - Max 100
9	Manganese(as Mn)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	0.04	Max 0.1 - Max 0.3
10	Nitrate(as NO3)	mg/L	UV-Spectrophotometer	IS 3025(Part-34/Sec 4): 2022	3.5	Max 45 - No Relaxation
11	Phenolic compounds(as C6H5OH)	mg/L	UV-Spectrophotometer	IS 3025 (Part-43/Sec 1): 2022	BLQ(LOQ:0.001)	0.001 - 0.002
12	Selenium(as Se)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	0.078	Max 0.01 - No Relaxation
13	Silver(as Ag)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	0.011	Max 0.1 - No Relaxation
14	Iron(as Fe)	mg/L	UV-Spectrophotometer	IS 3025 (Part-53): 2019	0.38	Max 1.0 - No Relaxation
15	Sulphide(as H2S)	mg/L	UV-Spectrophotometer	IS 3025(Part-29): 2022	BLQ(LOQ:0.04)	Max 0.05 - No Relaxation
16	Total Alkalinity(as CaCO3)	mg/L	Titration	IS 3025(Part-23): 2023	151	Max 200 - Max 600
17	Total Hardness(as CaCO3)	mg/L	Titration	IS 3025 (Part-21): 2019	1754	Max 200 - Max 600
18	Zinc(as Zn)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	7.4	Max 5 - Max 15
19	Aluminium(as Al)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	0.02	Max 0.03 - Max 0.2
20	Chloride(as Cl)	mg/L	Titration	IS 3025(Part-32): 2019	3718	Max 250 - Max 1000
21	Copper(as Cu)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.005)	Max 0.05 - Max 1.5
22	Barium(as Ba)	mg/L	ICPOES	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.05)	Max 0.7 - No Relaxation
23	Boron(as B)	mg/L	ICPOES	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	2.8	Max 0.5 - Max 2.4
(III)	**Parameters Concerning Toxic Substances**					
1	Cadmium(as Cd)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.001)	Max 0.003 - No Relaxation
2	Cyanide(asCN)	mg/L	UV-Spectrophotometer	IS 3025 (Part-27/Sec 1): 2021	BLQ(LOQ:0.01)	Max 0.05 - No Relaxation
3	Lead(as Pb)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue	BLQ(LOQ:0.005)	Max 0.01 - No Relaxation

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Test Report No. : ICE-2409160005
NABL ULR No. : TC695224000014665F

ORIGINAL

				Date: 11.09.2021		
4	Mercury(as Hg)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.0005)	Max 0.001 - No Relaxation
5	Molybdenum(as Mo)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	0.009	Max 0.07 - No Relaxation
6	Nickel(as Ni)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.005)	Max 0.02 - No Relaxation
7	Total Arsenic(as As)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	0.027	Max 0.01 - No Relaxation
8	Total Chromium(as Cr)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	0.017	Max 0.05 - No Relaxation
(IV)	**General Parameters**					
1	Phenolphthalein Alkalinity (as CaCO3)	mg/L	Titration	IS 3025(Part-23): 2023	BLQ(LOQ:1.0)	Not Specified
	Discipline : Biological					
	Group : Water					
(V)	**Microbiological Tests**					
1	E.coli	MPN/100ml	Microbiological	IS 1622: 1981	<2	Shall not be detectable in any 100 ml sample - Not Specified
2	Total Coliform	MPN/100ml	Microbiological	IS 1622: 1981	<2	Shall not be detectable in any 100 ml sample - Not Specified

NOTE : BLQ - Below Limit of Quantification, LOQ - Limit Of Quantification, MPN - Most Probable Number.
REMARKS : NA

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

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TEST REPORT

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TC-6952

Test Report No. : ICE-2409160004
NABL ULR No. : TC695224000014664F

ORIGINAL

Issued To :

Coastal Energen Private Limited
2X600 MW Mutiara Thermal Power Plant , 4/36D, Melamaruthur (village), Duraisamypuram(Post), Ottapidaram Taluk, Tuticorin, 628105
Tamil Nadu, India

Sample Registration No. : E02-2409020004
Sample Name : Ground Water
Sample Condition : Good

Sample Details (if any)

Sample Quantity : 2.5 Lit x 1 No
Packaging Mode : Canned
Sample Submission Type : Sampled by Lab Rep
Date of Sampling : 31.08.2024
Sampling Location : Borewell Water 04 - North East of Ash Pond
Enviroment Condition : Good
Sampling Procedure : ITC/CHN/GSOP/001
Customer Reference : Test Request Form/31/08/2024
Test Report as per : NA

Received On : 02-09-2024
Commenced On : 02-09-2024
Completed On : 12-09-2024
Date of Report : 16-09-2024

Description: Slightly turbid liquid

S. No.	Parameter	Measuring Unit	Instrument	Method	Result
	Discipline : Chemical				
	Group : Water				
(I)	**Organoleptic &Physical Parameter**				
1	Colour	Hazen Unit	Visual	IS 3025(Part-4): 2021	10.0
2	Odour	NA	Organoleptic	IS 3025(Part-5): 2017	Agreeable
3	pH Value	NA	pH Meter	IS 3025(Part-11): 2022	6.96
4	Taste	NA	Organoleptic	IS 3025(Part-8): 2023	Disagreeable
5	Turbidity	NTU	Turbidity Meter	IS 3025(Part-10): 2023	1.2
6	Total Dissolved Solids	mg/L	Balance, Oven, Waterbath	IS 3025(Part-16): 2023	3345
(II)	**Parameters Concerning Undesirable Substances in excess amount**				
1	Ammonia(as total ammonia-N)	mg/L	UV-Spectrophotometer	IS 3025(Part-34/Sec 4): 2022	BLQ(LOQ:0.1)
2	Anionic detergent(as MBAS)	mg/L	UV-Spectrophotometer	IS 13428: 2005(RA 2018)-Annex K	BLQ(LOQ:0.05)
3	Sulphate(as SO4)	mg/L	UV-Spectrophotometer	IS 3025(Part-24): 2022	392
4	Calcium(as Ca)	mg/L	Titration	IS 3025(Part-40): 2019	164
5	Chloramines(as Cl2)	mg/L	UV-Spectrophotometer	IS 3025 (Part 26): 2021	BLQ(LOQ:0.1)
6	Fluoride(as F)	mg/L	Visual	IS 3025 (Part - 60): 2019	0.71
7	Free Residual Chlorine	mg/L	UV-	IS 3025 (Part 26): 2021	BLQ(LOQ:0.1)

16/09/2024
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Authorized Signatory(Microbiology)

16/09/2024
Chinnaraja
Verified by

16/09/2024
Vijay Anand
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Interstellar Testing Centre Private Limited
Plot No. 2, S.No. 12/2A, Industrial Estate,
Perungudi, Sholinganallur Taluk, Chennai - 600 096.
Ph : 044 - 24962512
Email : itclabs.chennai@itclabs.com
Website : www.itclabs.com

			Spectrophotometer		
8	Magnesium(as Mg)	mg/L	By Calculation	IS 3025(Part-46): 2023	29.8
9	Manganese(as Mn)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	0.038
10	Nitrate(as NO3)	mg/L	UV-Spectrophotometer	IS 3025(Part-34/Sec 4): 2022	2.9
11	Phenolic compounds(as C6H5OH)	mg/L	UV-Spectrophotometer	IS 3025 (Part-43/Sec 1): 2022	BLQ(LOQ:0.001)
12	Selenium(as Se)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	0.02
13	Silver(as Ag)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	0.015
14	Iron(as Fe)	mg/L	UV-Spectrophotometer	IS 3025 (Part-53): 2019	0.22
15	Sulphide(as H2S)	mg/L	UV-Spectrophotometer	IS 3025(Part-29): 2022	BLQ(LOQ:0.04)
16	Total Alkalinity(as CaCO3)	mg/L	Titration	IS 3025(Part-23): 2023	299
17	Total Hardness(as CaCO3)	mg/L	Titration	IS 3025 (Part-21): 2019	530
18	Zinc(as Zn)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	6.2
19	Aluminium(as Al)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.005)
20	Chloride(as Cl)	mg/L	Titration	IS 3025(Part-32): 2019	1233
21	Copper(as Cu)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.005)
22	Barium(as Ba)	mg/L	ICPOES	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.05)
23	Boron(as B)	mg/L	ICPOES	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	1.68
(III)	**Parameters Concerning Toxic Substances**				
1	Cadmium(as Cd)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.001)
2	Cyanide(asCN)	mg/L	UV-Spectrophotometer	IS 3025 (Part-27/Sec 1): 2021	BLQ(LOQ:0.01)
3	Lead(as Pb)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.005)

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Since 1988

TEST REPORT

TC-6952

Test Report No. : ICE-2409160004
NABL ULR No. : TC695224000014664F

ORIGINAL

4	Mercury(as Hg)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.0005)
5	Molybdenum(as Mo)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.005)
6	Nickel(as Ni)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.005)
7	Total Arsenic(as As)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	0.056
8	Total Chromium(as Cr)	mg/L	ICPMS	ITC/CHN/FD/STP/020; Issue No: 3.0; Issue Date: 11.09.2021	BLQ(LOQ:0.005)
(IV)	**General Parameters**				
1	Phenolphthalein Alkalinity (as CaCO3)	mg/L	Titration	IS 3025(Part-23): 2023	BLQ(LOQ:1.0)
	Discipline : Biological				
	Group : Water				
(V)	**Microbiological Tests**				
1	E.coli	MPN/100ml	Microbiological	IS 1622: 1981	<2
2	Total Coliform	MPN/100ml	Microbiological	IS 1622: 1981	<2

NOTE : BLQ - Below Limit of Quantification, LOQ - Limit Of Quantification, MPN - Most Probable Number.

REMARKS : NA

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

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Interstellar Testing Centre Private Limited

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TC-6952

Test Report No. : ICE-2409301015
NABL ULR No. : TC695224000016109F

ORIGINAL

Issued To :

Coastal Energen Private Limited
2X600 MW Mutiara Thermal Power Plant , 4/36D, Melamaruthur (village), Duraisamypuram(Post), Ottapidaram Taluk, Tuticorin, 628105
Tamil Nadu, India

Sample Registration No. : E02-2409251015
Sample Name : Stack Emission
Sample Condition : Good

Received On : 25-09-2024
Commenced On : 25-09-2024
Completed On : 30-09-2024
Date of Report : 30-09-2024

Sample Details (if any)

Sample Submission Type : Sampled by Lab Rep
Sampling Location : Boiler Unit - 1 (600MW)
Environment Condition : Good
Sampling Procedure : ITC/CHN/GSOP/001
Customer Reference : Test Request Form/24/09/2024
Test Report as per : TNPCB Norms

S. No. Sampling Information:
(a) Date of Monitoring : 23.09.24

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**Stack Emission**				
1	Oxides of Nitrogen as NOx	mg/Nm3	IS 11255: (Part-7)	117.4	450 Max
2	Carbon Monoxide as CO	%	IS 13270	BDL(DL:0.2)	1 Max
3	Particulate Matter as PM	mg/Nm3	IS 11255: (Part-1)	22.17	50 Max
4	Stack Temperature	°C	IS 11255: (Part-3)	109	Not Available
5	Velocity	m/s	IS 11255: (Part-3)	24.8	Not Available
6	Flow Rate	Nm3/hr.	IS 11255: (Part-3)	3050516	Not Available
7	Sulphur Dioxide as SO2	mg/Nm3	IS 11255 (Part-2)	134.6	200 Max
8	Carbon Dioxide as CO2	%	IS 13270	13.4	Not Available
9	Oxygen as O2	%	IS 13270	6.2	Not Available
10	Moisture	%	IS 11255: (Part-3)	0.87	Not Available
11	Lead as Pb	mg/Nm3	USEPA Method 29	BDL (DL: 0.1)	Not Available
12	Arsenic as As	mg/Nm3	USEPA Method 29	BDL (DL: 0.1)	Not Available
13	Mercury as Hg	mg/Nm3	USEPA Method 29	BDL (DL: 0.01)	0.03 Max
14	Chromium as Cr	mg/Nm3	USEPA Method 29	BDL (DL: 0.1)	Not Available

NOTE : TNPCB: Tamilnadu Pollution Control Board, Instrument used: Fluegas Analyser, Stack Sampler, BDL: Below Detection Limit, DL: Detection Limit

REMARKS : The above sample complies with TNPCB Norms respect to the above tests.

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

30/09/2024
Chinnaraja
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30/09/2024
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Interstellar Testing Centre Private Limited

Since 1988

TC-6952

Test Report No. : **ICE-2409301016**
NABL ULR No. : **TC695224000016108F**

ORIGINAL

Issued To :

Coastal Energen Private Limited
2X600 MW Mutiara Thermal Power Plant , 4/36D, Melamaruthur (village), Duraisamypuram(Post), Ottapidaram Taluk, Tuticorin, 628105
Tamil Nadu, India

Sample Registration No. : E02-2409251016
Sample Name : Stack Emission
Sample Condition : Good

Received On : 25-09-2024
Commenced On : 25-09-2024
Completed On : 30-09-2024
Date of Report : 30-09-2024

Sample Details (if any)

Sample Submission Type : Sampled by Lab Rep
Sampling Location : Boiler Unit - 2 (600MW)
Environment Condition : Good
Sampling Procedure : ITC/CHN/GSOP/001
Customer Reference : Test Request Form/24/09/2024
Test Report as per : TNPCB Norms

S. No. Sampling Information:
(a) Date of Monitoring : 23.09.24

S. No.	Parameter	Measuring Unit	Method	Result	Specification
	Discipline : Chemical				
	Group : Atmospheric Pollution				
(I)	**Stack Emission**				
1	Oxides of Nitrogen as NOx	mg/Nm3	IS 11255: (Part-7)	129.8	450 Max
2	Carbon Monoxide as CO	%	IS 13270	BDL(DL:0.2)	1 Max
3	Particulate Matter as PM	mg/Nm3	IS 11255: (Part-1)	25.14	50 Max
4	Stack Temperature	°C	IS 11255: (Part-3)	114	Not Available
5	Velocity	m/s	IS 11255: (Part-3)	25.2	Not Available
6	Flow Rate	Nm3/hr.	IS 11255: (Part-3)	3054995	Not Available
7	Sulphur Dioxide as SO2	mg/Nm3	IS 11255 (Part-2)	156.4	200 Max
8	Carbon Dioxide as CO2	%	IS 13270	13.1	Not Available
9	Oxygen as O2	%	IS 13270	6.4	Not Available
10	Moisture	%	IS 11255: (Part-3)	0.98	Not Available
11	Lead as Pb	mg/Nm3	USEPA Method 29	BDL (DL: 0.1)	Not Available
12	Arsenic as As	mg/Nm3	USEPA Method 29	BDL (DL: 0.1)	Not Available
13	Mercury as Hg	mg/Nm3	USEPA Method 29	BDL (DL: 0.01)	0.03 Max
14	Chromium as Cr	mg/Nm3	USEPA Method 29	BDL (DL: 0.1)	Not Available

NOTE : TNPCB: Tamilnadu Pollution Control Board, Instrument used: Fluegas Analyser, Stack Sampler, BDL: Below Detection Limit, DL: Detection Limit

REMARKS : The above sample complies with TNPCB Norms respect to the above tests.

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

30/09/2024
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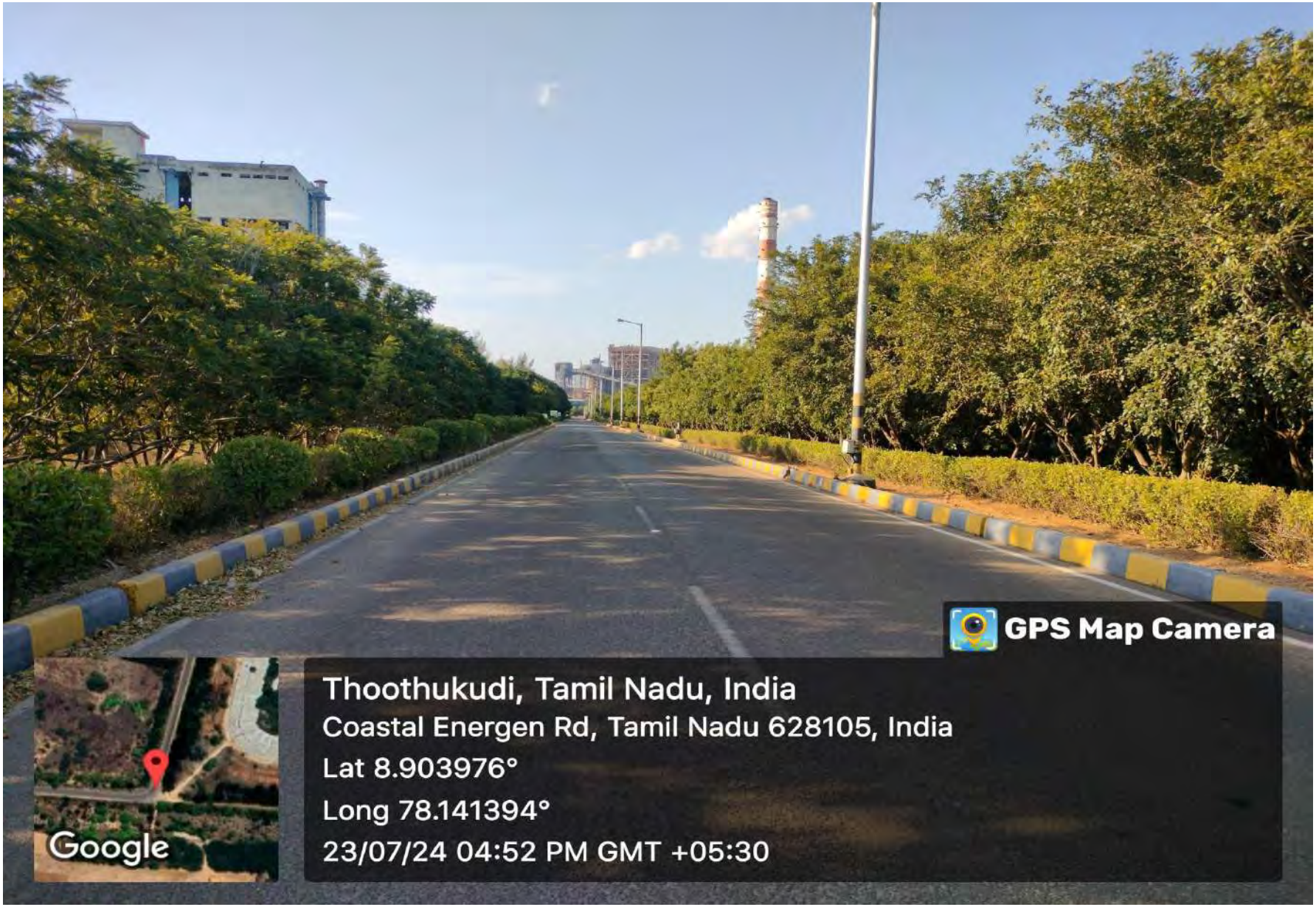
ANNEXURE - 4

Greenbelt Maintenance Photos
(April 2024 to September 2024)

View of Greenbelt Area

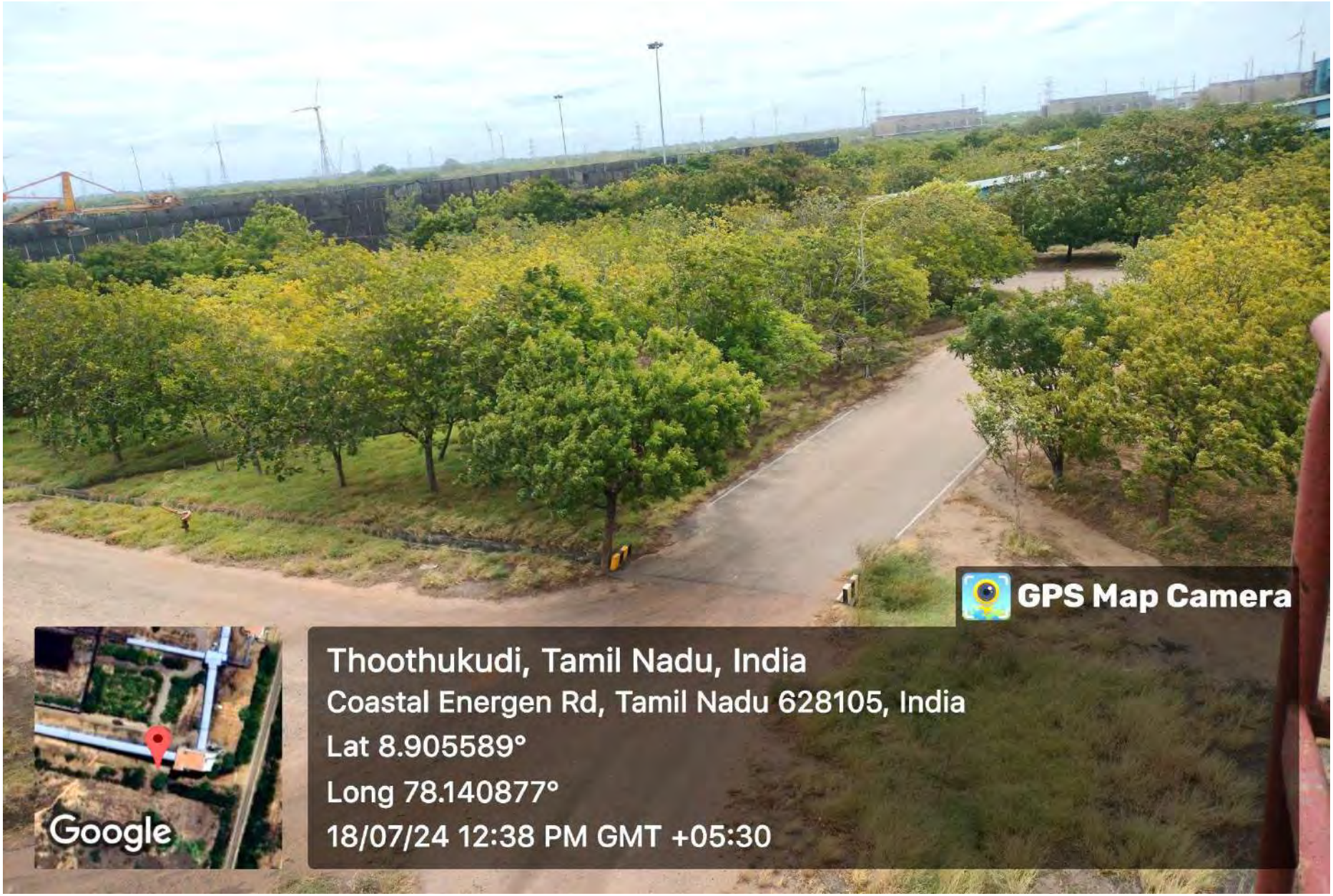


View of Greenbelt Area

View of Greenbelt Area

View of Greenbelt Area

View of Greenbelt Area



View of Greenbelt Area

View of Greenbelt Area

View of Greenbelt Area

View of Greenbelt Area

View of Greenbelt Area

View of Greenbelt Area

View of Greenbelt Area

ANNEXURE - 5

CSR Activities

(April 2024 to September 2024)

Strengthening of Tharuvaikulam (Near by Village) New Tank Bund during Flood

Temporary breach closing work done in Tharuvaikulam (Near by Village) New tank

Desilt of Puliamarathu Arasadi (Near by Village) Tank 1

Desilt of Puliamarathu Arasadi (Near by Village) Tank-2

Desilt of Puliamarathu Arasadi (Near by Village) Tank 3

DD distribution to Puliyamarathu Arasadi Villagers (Near by Village) by Station Director

Distribution of DD to AM Patti village temple festival 2024

Distribution of DD to Melaarasadi village Panchayat President to Desilt of Puliamarathu Arasadi village tank

Distribution of DD to Melamathur Villagers for temple festival

ANNEXURE - 6

Annexure - 6

COMPLIANCE TO THE CONDITIONS STIPULATED BY TAMILNADU COASTAL ZONE MANAGEMENT AUTHORITY VIDE LETTER DATED 03.04.2009

Period: April 2024 to September 2024

Sl.No.	CONDITIONS STIPULATED BY TNCZM AUTHORITY	COMPLIENCE
a)	The unit should adhere to the norms prescribed by Ministry of Environment and Forests, Government of India and State Pollution Control Board in respect of discharging of cooling water / treated effluent in to sea.	Complied. In respect of discharging of cooling water / treated effluent in to sea, All the norms prescribed by MoEF & CC/ SPCB is being followed.
b)	The unit shall consider adopting the latest technologies such as providing cooling towers to reduce the temperature of the condenser cooling water, so as to safe guard the marine eco-system	Complied. Cooling towers to reduce the temperature of the condenser cooling water is Installed, commissioned and in operation.
c)	Marking the intake and outfall pipelines adequately such that fishing vessels and fishermen are made aware of its presence.	Complied. Marker Buoys Provided.
d)	It may be ensured that mercury concentration is not present in the end product.	Being ensured
e)	The activities such as intake pipeline and outfall line and intake arrangement in sea and the pipeline should not cause hindrance to fishing activities and to boat movement.	Complied. No hindrance for fishing or boat movement.
f)	The proposed activities should not cause coastal erosion and alter the beach configuration	Complied. No Such activities are being carried out which can cause coastal erosion or beach configuration.
g)	No blasting activities in Coastal Regulation Zone is permissible	Complied. No Such activities are being carried out.
h)	The proponent should not prevent public from easy access to the beach.	Complied. Access is not prevented from Public.
i)	Untreated chemical waste generated due to membrane protection activity and the sewage generated should not be discharged into the sea.	Complied. No Untreated chemical waste is being discharged into sea.
j)	The proponent should ensure that the saline water shall not gain access into ground while conveying or processing the sea water	Being Ensured that the saline water is not gaining access into ground while conveying or processing the sea water.
k)	The project activity should not affect the coastal ecosystem including marine flora and fauna.	The project activity does not affect the coastal ecosystem including marine flora and fauna.
l)	There should not be any extraction of ground water in Coastal Regulation Zone.	Complied. Ground Water not extracted in the Coastal Regulation Zone.
m)	The proponent shall not undertake any activity, which is violative of the provisions of Coastal Regulation zone Notification 1991 and the subsequent amendments.	Complied. No Such activities are being carried out.
n)	The Coastal Regulation Zone clearance will be revoked if any of the condition stipulated is not complied with	Agreed.

MOXIE POWER GENERATION LIMITED ★ Melamarudur Tuticorin

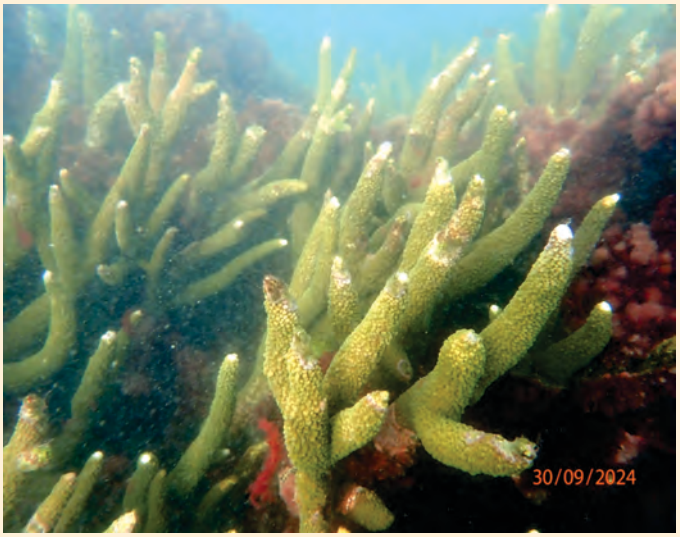
ANNEXURE - 7

Comprehensive Environmental Monitoring for 2 X 600 MW Thermal Power Plant of Moxie Power Generation Limited at Pattinamaruthoor, Tuticorin

Monitoring Report

(April 2024 - September 2024)

Executive Summary



Submitted to

M/s. Moxie Power Generation Limited

Melamaruthur Village, Ottapidaram Thaluk,
Tuticorin District - 628 105

By

Suganthi Devadason Marine Research Institute (SDMRI)

(Recognized by Manonmaniam Sundaranar University and U.G.C. &
Recognized by Scientific and Industrial Research Organization of the DSIR, GOI)

44 - Beach Road, Tuticorin - 628 001, Tamil Nadu

Tel: 0461 - 2336488, 2323007; E.mail: director@sdmri.in

Web: http://www.sdmri.in

27 November 2024

Comprehensive Environmental Monitoring for 2 X 600 MW Thermal Power Plant of Moxie Power Generation Limited at Pattinamaruthoor, Tuticorin

Monitoring Report

Executive Summary

(April 2024 - September 2024)

Submitted to

M/S. Moxie Power Generation Limited
Melamaruthur Village, Ottapidaram Thaluk,
Tuticorin District - 628 105

By

Suganthi Devadason Marine Research Institute (SDMRI)
(Recognized by Manonmaniam Sundaranar University and U.G.C. &
Recognized by Scientific and Industrial Research Organization of the DSIR, GOI)
44 - Beach Road, Tuticorin - 628 001, Tamil Nadu
Tel: 0461 - 2336488, 2323007; E.mail: director@sdmri.in
Web: http://www.sdmri.in

27 November 2024

Contents

Comprehensive Environmental Monitoring for 2 X 600 MW Thermal Power Plant of Moxie Power Generation Limited at Pattinamaruthoor, Tuticorin

1. Background

The Plant has started production of its first unit of 2 x 600 MW coal based thermal power plant near Pattinamaruthur village of Tuticorin District, Tamilnadu from October 2013.

The comprehensive baseline data collection on physical, chemical and biological, covering all marine flora & fauna covering four seasons in each year was conducted for 3 years from 2010 to 2013 and comprehensive data on fish landings and catch details in was collected for one year from 10 coastal villages located within 10 km radius of the project site.

While granting No Objection Certificate to establish the Thermal Power Plant, the Tamil Nadu Forest Department made it compulsory to implement the following Coastal Environmental Management Plan and Monitoring Protocol.

1. Marine Water Quality
2. Marine Sediment Quality
3. Coral Reef Monitoring
4. Seagrass Monitoring
5. Fish Production Monitoring

The details of parameters, monitoring locations and monitoring frequency provided by the Tamil Nadu Forest Department are followed and the present half yearly report provides the results of the monitoring from April 2024 to September 2024.

2. Methodology

2.1. Fixing Permanent Monitoring Locations

Permanent monitoring locations were fixed to study the marine water and sediment quality and to monitor seagrasses and coral reefs. Totally 4 locations were fixed for the analysis of marine water and sediment quality at intake site. Location 1 is on the intake point and locations 2 and 3 are 100 m away in each side of the intake point while location 4 is 200 m away from the intake point into the sea. Totally 12 stations were fixed at discharge point. Locations 2 and 3 occur near the discharge point and locations 1 and 4 are 100 m away from locations 2 and 3 respectively. Locations 5 and 6 occur 25 m away from Location 2 and 3 and locations 7 and 8 fixed at 50m away from location 5 and 6 respectively. Locations 9 and 10 were fixed at 200m away from discharge point and Locations 11 and 12 were located 400m away from discharge point towards marine side. Parameters monitored in water samples were physical parameters such as pH, salinity, temperature, turbidity and total suspended solids; chemical parameters such as dissolved oxygen, nutrients, BOD and COD; heavy metals were Copper, Lead, Nickel, Cadmium, Chromium and Mercury; bacterial parameter coliform count; marine biological parameters such as phytoplankton and zooplankton. Parameters monitored in sediment samples were pH, organic matter and nutrients.

For coral monitoring, totally 13 sites were selected. Three locations were selected around each of the Tuticorin islands Vaan, Koswari, Kariyachalli and Vilanguchalli and one location at Vilanguchalli patch reef. Physical parameters such as temperature, turbidity, total suspended solids and sedimentation were analysed in these locations and biological parameters such as coral status, growth, recruitment, diseases and bleaching were monitored. Temperature loggers will be deployed in these locations also. For seagrass monitoring, totally 13 sites were selected randomly within 3 km radius from the discharge point. Physical parameters such as temperature, turbidity, total suspended solids and sedimentation were assessed. Biological properties such as seagrass status, growth, shoot density, diseases, productivity and biomass were monitored. Fish diversity and abundance were also monitored in all the seagrass monitoring locations.

The details of monitoring locations and GPS coordinates are given in Figs. 1 to 3 and Tables 1 to 3.

The fish landing data and catch details will be collected from 10 landing centres / villages (Thirespuram, Mottaigopuram, Siluvaipatti, Vellapatti, Tharuvaikulam, Pattinamaruthoor, Sippikulam, Vaipar, Periyasamipuram and Vembar) located in and around Pattinamaruthur coast, covering 10 km radius from the project site (Fig.4)

Fig.1: Monitoring Locations Marine Water and Sediment Quality Monitoring

Table 1: GPS Mark for locations for Marine water and sediment quality monitoring

Intake point	**GPS Mark**
Location- 1	N8 55.084 E78 11.229
Location- 2	N8 55.143 E78 11.252
Location- 3	N8 55.046 E78 11.357
Location- 4	N8 55.007 E78 11.198
Discharge point	
Location- 1	N8 55.125 E78 11.252
Location- 2	N8 55.189 E78 11.285
Location- 3	N8 55.266 E78 11.333
Location- 4	N8 55.336 E78 11.374
Location- 5	N8 55.086 E78 11.654
Location- 6	N8 55.067 E78 11.624
Location- 7	N8 55.070 E78 11.666
Location- 8	N8 55.059 E78 11.657
Location- 9	N8 55.112 E78 11.409
Location- 10	N8 55.186 E78 11.461
Location- 11	N8 55.071 E78 11.540
Location- 12	N8 55.168 E78 11.610

Fig.2: Locations for coral reef monitoring

Table 2: Coral reef monitoring locations

Location	GPS Mark
Vaan Island	
Location 1	N8 50.487 E78 12.759
Location 2	N8 50.099 E78 12.974
Location 3	N8 49.729 E78 12.881
Koswari Island	
Location 1	N8 51.829 E78 13.376
Location 2	N8 51.791 E78 13.793
Location 3	N8 52.193 E78 13.909
Vilanguchalli patch reef	
Location 1	N8 54.127 E78 15.391
Vilanguchalli Island	
Location 1	N8 56.606 E78 16.423
Location 2	N8 56.109 E78 16.245
Location 3	N8 56.369 E78 15.936
Kariyachalli Island	
Location 1	N8 57.185 E78 14.921
Location 2	N8 56.950 E78 15.202
Location 3	N8 57.198 E78 15.584

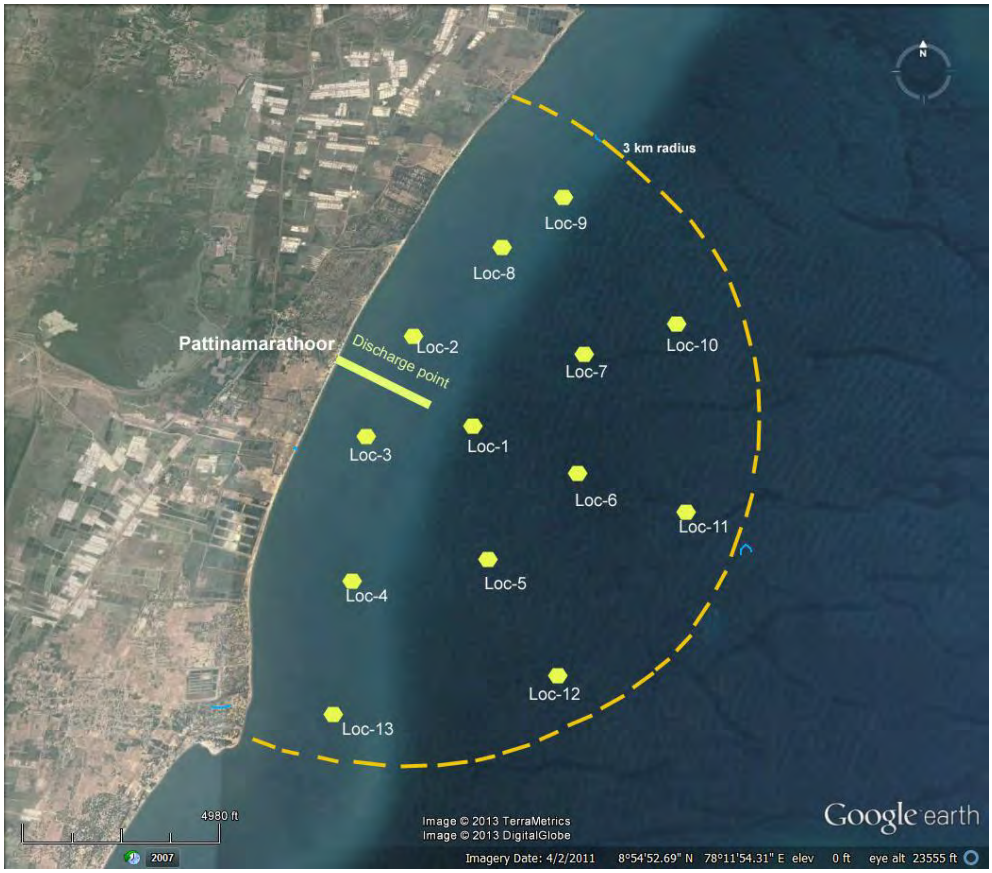


Fig.3: Seagrass and fish population monitoring locations

Table 3: GPS Mark for Seagrass and Fish Population monitoring locations

Location	GPS Mark
Location 1	N8 54.919 E78 11.338
Location 2	N8 55.043 E78 11.244
Location 3	N8 54.589 E78 11.177
Location 4	N8 54.128 E78 11.209
Location 5	N8 54.342 E78 11.921
Location 6	N8 54.652 E78 12.110
Location 7	N8 55.019 E78 11.971
Location 8	N8 55.351 E78 11.618
Location 9	N8 55.701 E78 11.940
Location 10	N8 55.224 E78 12.588
Location 11	N8 54.526 E78 12.508
Location 12	N8 53.885 E78 12.203
Location 13	N8 53.799 E78 11.357

Fig.4: Map showing the 10 coastal villages / fish landing centres for fish landing data and catch details monitoring

2.2. Parameters are being monitored

Marine Water Quality

Physical properties: pH, Salinity, Temperature, Turbidity, Total Suspended Solids
Chemical Properties: Dissolved Oxygen, Nutrients, BOD, COD
Heavy metals: Cu, Pb, Ni, Cd, Cr, Hg
Bacteriological parameters: Coliform Count
Marine Biology: Phytoplankton, Zooplankton
Monitoring frequency - Fortnight Sampling

Marine Sediment Quality

Physical & Chemical properties: pH, Organic Matter, Nutrients
Heavy metals: Cu, Pb, Ni, Cd, Cr, Hg
Bacteriological parameters: Coliform Count
Marine Biology: Macro and meio benthic fauna and Macro flora
Monitoring frequency - Fortnight Sampling

Coral Reef Monitoring

Physical properties: Temperature, Turbidity, Total Suspended Solids, Sedimentation
Biological properties: Status, Coral growth, recruits, disease, bleaching
Monitoring frequency - Fortnight Sampling

Seagrass Monitoring

Physical properties: Temperature, Turbidity, Total Suspended Solids, Sedimentation
Biological properties: Status, Growth, shoot density, disease, Productivity, Biomass
Monitoring frequency - Fortnight Sampling

Fish Population Monitoring

Diversity and Abundance
Monitoring frequency - Fortnight Sampling

Fish Landing and Catch Monitoring

Common fish landed
Seasonal landing pattern
Total fish landing - quantity, species wise, landing as per craft and gear
Monitoring frequency - Daily

2.3. Analysis and monitoring methods

Physico-chemical parameters

Seawater temperature was measured using a standard digital thermometer. Salinity was determined using refracto meter. Seawater pH was measured soon after collection by using pre-calibrated digital pH-meter. Turbidity was measured using Elico water quality analyzer. Total Suspended Solids (TSS) was measured by filtering a known volume of sample through a pre-weighed 0.45µ Whatman glass fibre filter paper (GF/C) using a Millipore filtering system. Dissolved oxygen (DO), Biological Oxygen Demand (BOD) and Chemical Oxygen Demand (COD) were analyzed by following Strickland and Parsons

method (1972). Analyses of calcium (Ca), magnesium (Mg) and chlorides will be done titrimetrically. Nitrates (NO_3) and nitrites (NO_2) were measured spectrophotometrically by following the method of Strickland and Parson (1972). Total coliform bacteria were measured using MPN method.

Sediment samples were collected from all the sites by using Van Veen Grab sampler. Sediment pH was measured using pH meter. Oil and grease in sediment was analysed using separating funnel method. Organic matter in sediment was estimated by the method described by El Wakeel and Riley (1957). Phytoplankton and zoo plankton samples were collected from the surface water at all the stations. For the quantitative estimation, a Sedgewick Rafter Counting Cell was used. The sediment samples pre stained with Rose Bengal was sieved through 1 mm and 63µ mesh sieves by adding copious amount of water for separating macro and meio benthic fauna respectively. The organisms retained in the sieves were preserved in 5% formalin and were identified using standard manuals. Heavy metals such as lead, nickel, cadmium, chromium and mercury in the water samples and heavy metals such as manganese, lead, nickel, cadmium, chromium and mercury in the sediment samples were analysed using Atomic Absorption Spectrophotometer (AAS). Sedimentation rate was measured by deploying sediment traps (English et al, 1997) under the water.

Coral monitoring

The percentage cover of corals and other sessile benthic categories were assessed by Line Intercept Transect (LIT) method following English *et al.,* (1997). The survey was started with mapping of Island reef areas, using manta tow technique (Done *et al.,* 1982). The assessment involved SCUBA diving. Depending on the size of the reefs, 15 to 25 transects were laid on each Island. The percentage cover of each life form category, percentage of bleaching and disease prevalence were calculated following the method of English *et al.,* (1997). Coral recruitment was recorded using haphazardly placed permanent 1 m^2 quadrats. The permanent quadrats, used for long term monitoring of recruits, were placed on substrates suitable for coral settlement, in particular dead reefs (Tamelander, 2002). Linear growth coral of coral colonies were measured by tagging the colony and measuring the distance from the baseline to the end of the branch with flexible plastic ruler (Gladfelter, *et al.,* 1978). Coral diseases were identified by following the coral disease handbook of Raymundo and Harvell, (2008). Disease prevalence in a study location were calculated by a simple formula; percentage of diseases is the proportion of diseased colonies to the total measured population of colonies.

$$\text{Disease prevalence} = \frac{\text{Number of diseased colonies per site}}{\text{Number of colonies examined per site}} \times 100$$

Life form Categories and codes

CATEGORIES		CODE	NOTES / REMARKS
Dead Coral		DC	recently dead, white to dirty white
Dead Coral with Algae		DCA	this coral is standing, skeletal structure can still be seen
Acropora	Branching	ACB	at least 2° branching, e.g. *Acropora palmate*, *A.formosa*
	Encrusting	ACE	usually the base-plate of immature *Acropora* forms, e.g. *A. palifera* and *A. cuneata*
	Sub massive	ACS	robust with knob or wedge-like form e.g. *A. palifera*
	Digitate	ACD	no least 2° branching, typically includes *A. humilis*, *A. digitifera* and *A. gemmifera*
	Tabular	ACT	horizontal flattened plates e.g. *A. hyacinthus*
Non – Acropora	Branching	CB	at least 2° branching e.g. *Seriatopora hystrix*
	Encrusting	CE	major portion attached to substratum as a laminar plate e.g. *Porites vaughani*, *Montipora undata*
	Foliose	CF	Coral attached at one or more points, leaf-like, or plate-like appearance e.g. *Merulina ampliata*, *Montipora aequituberculata*
	Massive	CM	Soild boulder or mound e.g. *Platygyra daedalea*
	Submassive	CS	tends to form small columns, knobs, or wedges e.g. Porites lichen, *Psammocora digitata*
	Mushroom	CMR	solitary, free-living corals of the *Fungia*
	Heliopora	CHL	blue coral
	Millepora	CME	fire coral
	Tubipora	CTU	organ-pipe coral, *Tubipora musica*
Other Fauna:			
Soft Coral		SC	soft bodied coral
Sponge		SP	
Zoanthids		ZO	examples are *Platythoa*, *Protopalythoa*
Others		OT	Ascidians, anemones, gorgonians, giant clams etc.
Algae	Algal Assemblage	AA	consists of more than one species
	Coralline Algae	CA	
	Halimeda	HA	
	Macroalgae	MA	weedy/fleshy browns, reds, etc.
	Turf Algae	TA	lush filamentous algae, often found inside damselfish territories
Abiotic	Sand	S	
	Rubble	R	unconsolidated coral fragments
	Silt	SI	
	Water	WA	fissures deeper than 50 cm
	Rock	RCK	
Other		DDD	Missing data

Seagrass monitoring

Quadrates (50 cm×50 cm) divided into 25 squares (10 cm × 10 cm) were used to study the percentage cover of seagrass species through visual estimation (Saito and Atobe,

1970). 100 m transects were made on the seagrass meadows and transects were separated from each other by a reasonable distance (50 -100 m) and were parallel to each other and perpendicular to the shore. Quadrates were laid at regular intervals (5 m) along each transect. Minimum 2-4 replicates of quadrates were laid depending on the abundance of the seagrass. Individual shoots were also counted randomly at every transect. Each seagrass species was collected and sorted by taxnomical order for further identification (English *et al*., 1997). Biomass was estimated using the method of Mellors (1991). The biomass or standing crop is expressed in dry weight m^2.

Fish population monitoring

Fish density and diversity was assessed by visual census applying Belt Transect method (English et al., 1997).

Fish Landing Data

Fish landing data was collected by following the method of Srinath *et al*., (2005). The following are the steps:

i. Enquiring of the total number of fishing days in the particular village (Sampling will be done normally for 16-18 days per month in each selected village).

ii. Enquiring of the total number of fishing crafts on the particular fishing day.

iii. 1: 6 boats will be surveyed in case of large numbers of boats (Random). A minimum total of 15 boats at least will be surveyed in which 100% of the catch has to be checked.

iv. The different fishing gears will be surveyed. Fish catch by different gears will be noted down if necessary.

v. Species composition of the fish landed will be checked out.

vi. Weight of a group (eg: carangids, groupers) / genus (*Scomberoides, Tylosurus* etc.) / species (*Sardinella longiceps, Rastrelliger kanagurta*) per the fishing crafts surveyed to be calculated. For this the weight of a standard basket will be enquired and the total number of standard baskets in that boat has to be enquired (Eg:- Weight of one standard basket of Grouper in Tuticorin landing center = 10 kg. Total number of standard baskets in the boat 'A' = 5. Groupers landed in boat 'A' = 10 x 5 = 50).

vii. Similarly the weight of groupers in all the boats surveyed is calculated. The resultant data gives the total groupers landed in the given day in the surveyed boats. This data is then made up to the total number of boats gone for fishing in the particular fishing day. The resultant data is further calculated up to one month by multiplying the total number of fishing days during that month.

3. Results - Executive Summary
(April 2024 to September 2024 - Half Yearly Report)

3.1. Marine water and sediment quality

The water temperature was recorded between 28.0 and 32.25^{o}C; Salinity value was recorded between 34.80 and 36.20 ppt; pH level was recorded between 8.03 and 8.52; turbidity level ranged from 5.48 to 8.14 NTU; the TSS level ranged from 110 to 155 mg/l; dissolved oxygen level was recorded between 4.60 and 5.54 mg/l; BOD level ranged from 1.49 to 2.55 mg/l; COD level ranged from 0.95 to 1.51 mg/l; calcium values ranged from 390 to 660 mg/l; magnesium value was recorded between 1253 and 1375 mg/l; nitrate level ranged from 1.22 to 1.48 µg at/l; nitrite level ranged from 0.24 to 0.62 µg at/l; chloride level ranged from 16.85 to 17.69 g/l; and oil and grease level ranges from 0.21 to 0.44 mg/l.

In sediment samples, the pH value varied from 8.01 to 8.58; oil and grease level ranged from 0.28 to 0.64 mg/kg; organic matter value ranged from 2.328 to 3.678%; and heavy metal level in water and sediment samples was within the acceptable limits.

No coliform bacteria were recorded in water and sediment samples. The phytoplankton density was recorded between 281.53 and 418.97 cells/l. The zooplankton density was between 195642 and 331525 no/m^3. Among the benthic macro fauna, gastropods and bivalves were the dominant categories.

In coral reef area, the water temperature was recorded between 28.05 and 31.85°C; turbidity level ranged from 4.40 to 6.45 NTU; TSS level ranged from 85.5 to 157.6 mg/l and sedimentation rate was recorded between 59.65 and 82.45 mg/cm^2/day during the study period of all the island during the study period in surface and bottom water of seagrass area.

3.2. Coral monitoring

The live coral cover in Vaan Island was 22.68, 32.19 and 34.99% respectively in sites 1, 2 and 3 during April 2024; it was 21.56, 31.47 and 32.53 respectively during May 2024; it was 21.52, 31.45 and 32.42% respectively during June 2024; it was 21.53, 31.44 and 32.45% respectively during July 2024; it was 21.55, 31.45 and 32.47% respectively during August 2024; it was 21.48, 31.35 and 32.4% respectively in September 2024. In April 2024, the soft coral cover was 7.73, 2.02 and 2.32% respectively in sites 1, 2 and 3; it was 7.75, 2.01 and 2.31% respectively during May 2024; it was 7.74, 2.02 and 2.33% respectively during June 2024; during July 2024, it was 7.75, 2.02 and 2.35% respectively; during August 2024, it was 7.74, 2.03 and 2.34% respectively and it was 7.69, 1.98 and 2.28% respectively during September 2024. ACB and CF were the dominant coral life form categories during April to September 2024. Coral recruitment was highest for the genera *Acropora, Porites* and *Montipora* and most common coral species were *Acropora muricata*, *A. cytherea*, *A. intermedia*, *A. robusta, Montipora foliosa*, *Pocillopora damicornis* and *Porites* sp. In Vaan Island, nine types of coral health issues were recorded which include bleaching, BBD, BSD, PSD, WBD, WPD, WSD, YBD, YSD and B. Among disease type, B was the most dominant category with 3.05% followed by BBD with 2.53% respectively during April to September 2024 mainly in genus Montipora. Totally six coral genera were affected by them which are *Goniastrea, Dipsastrea*, *Favites, Porites, Turbinaria* and *Acropora*.

The live coral cover in Koswari Island was 21.6, 21.23 and 19.45% respectively in sites 1, 2 and 3 during April 2024; it was 21.17, 20.36 and 19.21% respectively during May

2024; it was 21.13, 20.33 and 19.22% respectively during June 2024; during July 2024, it was 21.15, 20.31and 19.24% respectively; during August 2024, it was 21.17, 20.33 and 19.22% respectively and during September 2024, it was 21.15, 20.25 and 19.11% respectively. In April 2024, the soft coral cover was 1.85, 3.6 and 2.67% respectively; it was 1.84, 3.62 and 2.65% respectively during May 2024; it was, 1.85, 3.61 and 2.67% respectively during June 2024; during July 2024, it was 1.85, 3.59 and 2.65% respectively; during August 2024, it was 1.83, 3.58 and 2.64% respectively and it was 1.78, 3.48 and 2.61% respectively during September 2024. CM, CF and ACB were the dominant coral life form categories during April to September 2024. Coral recruitment was highest for the genera *Acropora, Turbinaria* and *Porites* and most common coral species were *Acropora muricata*, *A.cytherea*, *A. intermedia*, *A. robusta, Montipora foliosa*, *Pocillopora damicornis* and *Porites* sp. In Koswari Island, ten types of coral health issues were recorded which are BBD, BSD, PSD, WBD, WPD, WSD, YBD, YSD, T and B. Among disease type, B was the most dominant category with 2.24% followed by BBD with 1.92% respectively during April to September 2024 mainly in genus Acropora. Totally six coral genera were affected which are *Goniastrea, Dipsastrea,Favites, Porites, Turbinaria* and *Acropora*.

The live coral cover in Kariyachalli Island was 34.15, 34.5 and 33.96% respectively in sites 1, 2 and 3 during April 2024; it was 33.24, 32.36 and 32.58% respectively during May 2024; it was 33.18, 32.34 and 32.6% respectively during June 2024; during July 2024, it was 33.2, 32.33 and 32.61% respectively; during August 2024, it was 33.21, 32.34 and 32.59% respectively and during September 2024 it was 32.16, 32.29 and 32.53% respectively. The soft coral cover in April 2024 was 4.89, 4.45 and 7.42% respectively; it was 4.85, 4.42 and 7.41% respectively during May 2024; it was 4.83, 4.4 and 7.4% respectively during June 2024; it was 4.85, 4.41nd 7.42% respectively during July 2024; it was 4.84, 4.42 and 7.43% respectively during August 2024; and it was 4.81, 4.36 and 7.41% respectively during September 2024. The CM, CF and ACB were the dominant coral life form categories during April to September 2024. Coral recruitment was highest for the genera *Acropora, Montipora* and *Porites* and most common coral species were *Acropora muricata*, *A.cytherea*, *A. intermedia*, *A. robusta, Montipora foliosa*, *Pocillopora damicornis* and *Porites* sp. Totally ten types of coral health issues were recorded which include bleaching, BBD, BSD, PSD, WBD, WPD, WSD, YBD, YSD, T and B. Among disease type, B was the most dominant category with 3.32% followed by BBD with 1.8% respectively during April to September 2024 mainly in genus *Acropora*. Totally seven coral genera were affected by them which are *Montipora*, *Goniastrea, Dipsastrea*, *Favites, Porites, Turbinaria* and *Acropora*.

The live coral cover in Vilanguchalli Island was 19.66, 20.22 and 26.64% respectively in sites 1, 2 and 3 during April 2024; it was 16.86, 18.12 and 23.86% respectively during May 2024; it was 16.84, 18.1 and 23.84% respectively during June 2024; it was 16.85, 18.12 and 23.87% respectively during July 2024; it was 16.84, 18.14 and 23.87% respectively during August 2024; and during September 2024 it was 16.78, 18.11 and 23.81% respectively. In April 2024, the soft coral cover was 1.85, 1.78 and 1.84% respectively; it was 1.86, 1.78 and 1.85% during May 2024; it was 1.86, 1.77 and 1.85% respectively during June 2024; it was 1.84, 1.78 and 1.86% respectively during July 2024; 1.85, 1.79 and 1.88% respectively during August 2024; and during September 2024, it was 1.81, 1.76 and 1.83% respectively. The CF, CE and CM were the dominant coral life form categories during the period April to September 2024. Coral recruitment was highest for the genera *Acropora, Turbinaria and Pocillopora* while most common coral species were *Acropora muricata*, *A. cytherea*, *A. intermedia*, *A. robusta, Pocillopora damicornis* and *Porites* sp. In Vilanguchalli Island, ten types of coral health issues were recorded which are BBD, BSD, PSD, WBD,

WPD, WSD, YBD, YSD, T and B. Among disease type, B was the most dominant category with 4.3% followed by BBD with 1.89% respectively during April to September 2024 mainly in genus Acropora. Five coral genera were affected by them which are *Goniastrea, Porites, Montipora*, *Turbinaria* and *Acropora*.

The live coral cover in Villanguchalli Patch reef was 43.45, 42.71, 42.68, 42.7, 42.7 and 42.63% respectively during April, May, June, July, August and September 2024. Soft coral cover was 3.35, 3.31, 3.29, 3.26, 3.26 and 3.22% respectively. The ACB, CF and ACT were the dominant coral life form categories during the period between April to September2024. Coral recruitment was highest for the genera *Acropora, Pocillopora, Turbinaria* and *Favites* while most common coral species were *Acropora muricata*, *A.cytherea*, *A. intermedia*, *A. robusta, Montipora foliosa*, *Pocillopora damicornis* and *Porites* sp. Totally ten types of coral health issues were recorded which are BBD, BSD, PSD, WBD, WPD, WSD, YBD, YSD, T and B. Among disease type, B was the most dominant category with 4.54 % respectively during April to September 2024 mainly in genus *Acropora* followed by BBD with 1.12%. Five coral genera were affected by them *Goniastrea, Porites, Montipora*, *Turbinaria* and *Acropora*.

Moderate to severe coral bleaching was witnessed during April and May due to the prolonged elevated sea surface temperature. *Porites*, *Acropora, Dipsastrea* and *Montipora* genera were the most affected in the monitoring sites. However, in June, most of the affected colonies got recovered from bleaching due to the reduction in water temperature level mainly because of rainfall and changing weather condition. .

3.3. Seagrass and fish population monitoring

The overall seagrass percentage cover was observed as 62.69% in April 2024 at station 13 followed by 62.07% in May 2024 at station 13. No diseases were observed. In total, seven seagrass species were recorded and they are *Thalassia hemprichii, Halophila stipulacea, Halophila ovalis, Cymodocea serrulata, Halodule pinifolia*, *Halodule uninervis* and *Syringodium isoetifolium*. Among the seven seagrass species, the dominant shoot density was recorded in *Cymodocea serrulata* as 161.6 nos.m^{-2} in April 2024 at station-8 followed by *Thalassia hemprichii* as 158.66 nos.m^{-2} in April 2024 at station 2. The maximum productivity was recorded in *Cymodocea serrulata*as 69.54 $cm^{-2}day^{-1}$ in April 2024 at station-8 followed by *Thalassia hemprichii*as 63.51 $cm^{-2}day^{-1}$ in April 2024 at station-9. The maximum seagrass biomass was recorded in *Cymodocea serrulata* as 145.66 g dry weight m^{-2} in April 2024 at station-8 followed by *Thalassia hemprichii* as 117.77 g dry weight m^{-2} in April 2024 at station-2.

A total of 19 fish species were recorded and among them, *Lutjanus* sp. was the dominant followed by *Sardinella s*p. during the entire survey period. Maximum number of fish density was observed at Station-13 during April 2024 with 215 / 50 m^{-2} followed by Station-13 in May 2024 with 210 / 50 m^{-2}.

3.4. Cage culture of fishes near outfall in Pattinamaruthoor coast

In Pattinamaruthoor fish cage, a total of 11 fish species were recorded during April 2024 to September 2024. Among them, *Lutjanus* sp. was dominant followed by *Siganus* sp. Maximum number of fish density was observed during June 2024 with 243 Nos. followed by April 2024 with 240 nos.

3.5. Fish Landing Data

Study area: Landing areas of ten fishing villages - Thirespuram, Mottaigopuram, Siluvaipatti, Vellapatti, Tharuvaikulam, Pattinamaruthoor, Sippikulam, Vaipar, Periyasamipuram, Vembar.

The major fishery resources of Tuticorin coast are Tuna, Seer fishes, Groupers, Ribbon fishes, Penaeid shrimps, Crabs, lobster and so on. The fish stocks from the coast tend to concentrate along the continental shelf and the biodiversity is substantially higher than in temperate waters. Tuticorin is one of the major fish landing center along the Gulf of Mannar coast by both mechanized as well as traditional crafts. Tuticorin coast has 21 fishing villages which include 2 major landing and 20 minor landing areas. Among the 22 fish landing areas of Tuticorin coast, 10 major and minor landing areas have been randomly surveyed for the fish species and weight of fishes landed from April 2024 to September 2024. Major fishing gears operated in Tuticorin fishing area is Trawl net, Long line fishing, Gill net, Drift net, Purse seine, Trammel net, Stake net, traps and Hand line nets. Fishing activity in Tuticorin region was carried out by Deep Sea, Traditional and mechanized fishing vessels like Trawlers, Kattumaram, Fiber boats and Vallams. Commercial fish species and total catch landed at each village during this period was recorded and illustrated as follows.

The survey recorded maximum landing in Thirespuram with about 860297 kg followed by Vaipar with about 439146 kg during April 2024 to September 2024. The catch yield obtained in all ten landing areas has been illustrated in the table 4 and Fig. 5. During the study, 106 species of fishery resources have been identified under the commercial fishery resource and are illustrated in the following table 5.

Table 4: Total catch in major landing centres during April 2024 to September 2024 in Tuticorin coast

Landing areas	Catch landed / 6 months
Thirespuram	860297
Mottaigopuram	50943
Siluvaipatti	28619
Vellapatti	175239
Tharuvaikulam	407658
Pattinamaruthoor	18049
Vaipar	439146
Sippikulam	394101
Periyasamipuram	37198
Vembar	227634
Total catch	2638884

Table 5: Species recorded in landing areas - Tuticorin coast					
1	*Ablennes hians*	40	*Himantura uarnak*	79	*Saurida tumbil*
2	*Acanthocybium solandri*	41	*Irundichthys* sp.	80	*Chlorurus ghibbus*
3	*Acanthurus* sp.	42	*Istiophorus* sp.	81	*Scarus ghobban*
4	*Aetoplatea* sp.	43	*Isurus oxyrinchus*	82	*Scolopsis vosmeri*
5	*Alectis indica*	44	*Katsuwonus pelamis*	83	*Scomberoides commersonianus*
6	*Aluterus monoceros*	45	*Lates calcarifer*	84	*Scomberoides tol*
7	*Alopias* sp.	46	*Leiognathus*sp.	85	*Scomberoides lysan*
8	*Arius* sp.	47	*Leiognathus equulus*	86	*Scomberomorous commerson*
9	*Atule mate*	48	*Lethrinus* sp.	87	*Scylla serrata*
10	*Auxis thazard*	49	*Liza tade*	88	*Scylla tranquebarica*
11	*Carangoides armatus*	50	*Lobotes surinamensis*	89	*Sepia pharonis*
12	*Carangoides* sp.	51	*Loligo* sp.	90	*Sepiella* sp.
13	*Caranx* sp.	52	*Uroteuthis duvauceli*	91	*Sepioteuthis* sp.
14	*Cardisoma canarium*	53	*Lutjanus* sp.	92	*Siganus javus*
15	*Cephalopholis boenack*	54	*Mene maculata*	93	*Sphyraena putnamae*
16	*Cephalopholis formosa*	55	*Metapenaeus* sp.	94	*Sphyraena barracuda*
17	*Cephalopholis sonnerati*	56	*Mobula japanica*	95	*Stolephorus commersonnii*
18	*Charybdis cruciata*	57	*Mugil Cephalus*	96	*Strongylura leiura*
19	*Chichoreus ramosus*	58	*Mycteroperca acutirostris*	97	*Synatpura* sp.
20	*Chirocentrus*sp.	59	*Nemipterus japonicus*	98	*Thunnus albacares*
21	*Chiloscyllium griseum*	60	*Nemipteryx caelata*	99	*Thunnus thynnus*
22	*Coryphaena hippurus*	61	*Octopus aegina*	100	*Trachurus japonicus*
23	*Cynoglossus* sp.	62	*Octopus cyaneus*	101	*Lepturacanthus savala*
24	*Neotrygon kuhlii*	63	*Octopus dolfusii*	102	*Turbinella pyrum*
25	*Dasyatis* sp.	64	*Pampus pampus*	103	*Tylosurus* sp.
26	*Dasyatis uarnak*	65	*Panulirus homarus*	104	*Upeneus vittatus*
27	*Decapterus russelli*	66	*Panulirus ornatus*	105	*Carcharhinus limbatus*
28	*Psettodes erumi*	67	*Parupeneus indicus*	106	*Glaucostegus granulatus*
29	*Diagramma pictum*	68	*Penaeus* sp.		
30	*Dorytheuthis* sp.	69	*Plectrohinchus* sp.		
31	*Drepane punctata*	70	*Portunus pelagicus*		
32	*Epinephelus areolatus*	71	*Portunus sanguinolentus*		
33	*Epinephelus malabaricus*	72	*Psettodus* sp.		
34	*Epinephelus merra*	73	*Rachycentron canadum*		
35	*Euthynnus affinis*	74	*Rastrelliger kanagurta*		
36	*Gerres* sp.	75	*Rhizoprionodon* sp.		
37	*Harpulina* sp.	76	*Sardinella albella*		
38	*Hemiramphus far*	77	*Sardinella* sp.		
39	*Hilsa keele*	78	*Sargocentron rubrum*		

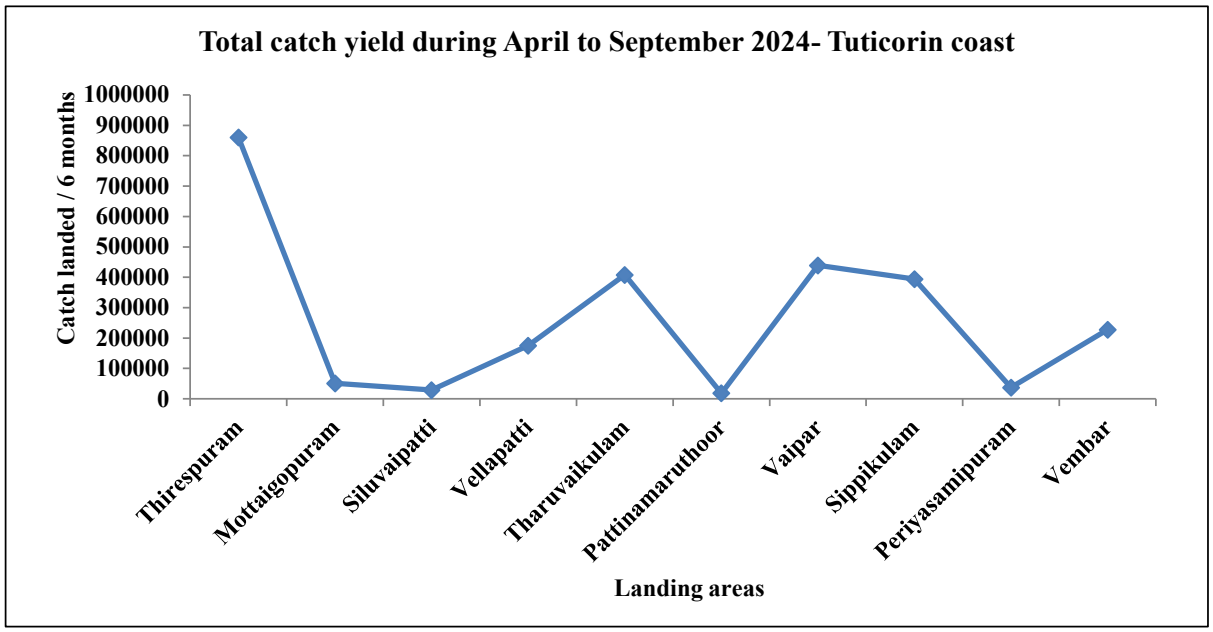


Fig.5: Total catch obtained during April 2024 to September 2024 in Tuticorin coast

Thirespuram

Total landing was recorded as 860297 Kg. Maximum landing was recorded in April 2024 with about 194979 kg and minimum in June 2024 with about 85796 kg. Species dominantly found varied according to the season – Jacks (*Caranx* sp.,) dominantly found in April 2024; Unicorn leatherjacket (*Aluterus monoceros*) dominantly landed in April 2024; and Emperors (*Lethrinus* sp.,) dominantly observed in July 2024. Species commonly observed includes *Auxis thazard*, *Lutjanus* sp., etc.

- Dominant species - *Caranx* sp., *Aluterus monoceros*, *Lethrinus* sp., *Auxis thazard, Lutjanus* sp., *Sphyraena barracuda.*
- Maximum catch recorded - April 2024
- Minimum catch recorded - June 2024

Mottaigopuram

Total landing owas recorded as 50943 Kg. Maximum landing was recorded in September 2024 with about 10925 kg and minimum in June 2024 with about 6254 kg. Species dominantly recorded varied according to the season – Crustaceans - crab (*Portunus* sp.,) dominantly observed in September 2024; and shrimp *(Penaeus* sp.,) dominantly found in April 2024 while shrimp *(Metapenaeus* sp.,) in August 2024. Species commonly found includes *Lethrinus* sp., *Sepiella* sp., *Sepioteuthis* sp., etc.

- Dominant species - *Portunus* sp., *Penaeus* sp., *Metapenaeus* sp., *Lethrinus* sp., *Sepiella* sp.
- Maximum catch recorded - September 2024
- Minimum catch recorded - June 2024

Siluvaipatti

Total landing was recorded as 28619 Kg. Maximum landing was recorded in September 2024 with about 6120 kg and minimum in June 2024with about 3021 kg. Species dominantly observed varied according to the season – Crustaceans - crab (*Portunus* sp.,) found dominantly in September 2024; Emperors (*Lethrinus* sp.,) in September 2024; and Shrimp *(Penaeus* sp.,) in September 2024. Species commonly recorded includes *Metapenaeus* sp.*, Parupeneus* sp.*, Scarus* sp.*,* etc.

- Dominant species - *Portunus sp*.*, Lethrinus* sp.*, Penaeus* sp.*, Meytapenaeus* sp.,
- Maximum catch recorded - September 2024
- Minimum catch recorded - June 2024

Vellapatti

Total landing was recorded as 175239 Kg. Maximum landing was recorded in September 2024 with about 34302 kg and minimum in June 2024 with about 24004 kg. Species dominantly recorded varied according to the season – Crustaceans – crab (*Portunus pelagicus*., and *Portunus sanguinolentus*.,) dominantly found in September and August 2024; and Emperors (*Lethrinus* sp., and *Lutjanus* sp.,) found in July and April 2024. Species commonly observed includes *Ablennes hians, Sepiella* sp., *Carangoides* sp. etc.

- Dominant species -*Portunus pelagicus., Portunus sanguinolentus., Lethrinus sp.*
- Maximum catch recorded - September 2024
- Minimum catch recorded - June 2024

Tharuvaikulam

Total landing was recorded as 407658 Kg. Maximum landing was recorded in July 2024 with about 78437 kg and minimum in May 2024 with about 52102 kg. Species dominantly observed varied according to the season – Emperors (*Lethrinus* sp.) dominantly observed in July 2024 and Needle fish (*Stronglyura leiura*) in August 2024. Species commonly recorded includes – *Tylosurus* sp.*, Thunnus thynnus, Sphyraena barracuda, Carangoides* sp.*,* etc.

- Dominant species - *Lethrinus* sp., *Strongylura leiura, Tylosurus* sp., *Thunnus thynnus, Sphyraena barracuda* etc..
- Maximum catch recorded – July 2024
- Minimum catch recorded - May 2024

Pattinamaruthoor

Total landing was recorded as 18049 Kg. Maximum landing was recorded in September 2024 with about 4706 kg and minimum in June 2024 with about 1734 kg. Species dominantly recorded varied according to the season – includes Crustaceans - crabs *(Portunus pelagicus*., and *Portunus sanguinolentus.,*) dominantly recorded in September and August 2024 followed by Emperors (*Lethrinus* sp.,) in May 2024. Species commonly observed includes – *Tylosurus* sp., *Leiognathus* sp., *Sepiella* sp., *Hemiramphus far*, *Carangoides* sp., etc.

- Dominant species - *Portunus pelagicus., Portunus sanguinolentus, Lethrinus* sp.*, Tylosurus* sp.
- Maximum catch recorded - September 2024
- Minimum catch recorded - June 2024

Vaipar

Total landing was recorded as 439146 Kg. Maximum landing was recorded in April 2024 with about 82604 kg and minimum in June 2024 with about 63779 kg. Species dominantly observed varied according to the season – fin fishes include Barracuda (*Sphyraena* sp.,) dominantly found in July 2024; Indian mackerel (*Rastrelliger kanagurta*) in September 2024; and Sardine (*Sardinella sp*.) in July 2024. Species commonly found includes – *Lethrinus* sp., *Tylosurus* sp., *Scomberomorus* sp., etc.

- Dominant species - *Sphyraena* sp.*, Rastrelliger kanagurta., Sardinella* sp., etc.
- Maximum catch recorded – April 2024
- Minimum catch recorded – June 2024

Sippikulam

Total landing was recorded as 394101 Kg. Maximum landing was recorded in September 2024 with about 71940 kg and minimum in June 2024 with about 55210 kg. Species dominantly found varied according to the season – fin fishes (*Sardinella* sp.,) dominantly recorded in August 2024; Indian mackerel (*Rastrelliger kanagurta*) in September 2024; and Trevally (*Carangoides* sp.,) in August 2024. Species commonly observed includes – *Tylosurus* sp., *Strongylura* sp., *Sphyraena* sp.*, Scomberomorous* sp.*, Lethrinus* sp.*,* etc.

- Dominant species - *Sardinella* sp., *Rastrelliger kanagurta, Carangoides* sp., *Tylosurus* sp.*,* etc.
- Maximum catch recorded – September 2024
- Minimum catch recorded - June 2024

Periyasamypuram

Total landing was recorded as 37198 Kg. Maximum landing was recorded in September 2024 with about 8925 kg and minimum in June 2024 with about 3721 kg. Species dominantly recorded varied according to the season – Crustaceans (*Portunus* sp.) were dominantly recorded in September 2024; Cephalopods – Squids (*Sepiella* sp.,) in September 2024; and *Uroteuthis sp.* in August 2024. Species commonly observed includes – *Metapenaeus* sp., *Doryteuthis* sp., *Charybdis natator,* etc.

- Dominant species - *Portunus* sp., *Sepiella* sp., *Uroteuthis* sp., *Metapenaeus* sp. and *Doryteuthis* sp., etc.
- Maximum catch recorded - September 2024
- Minimum catch recorded - June 2024

Vembar

Total landing was recorded as 227634 Kg. Maximum landing was recorded in September 2024 with about 54407 kg and minimum in June 2024 with about 19177 kg. Species dominantly observed varied according to the season – Fin fishes Emperors (*Lethrinus* sp.,), were dominantly found in September 2024; Barracuda (*Sphyraena barracuda*) in September 2024; and Jacks (*Caranx* sp.) also in September 2024. Species commonly observed includes - *Sardinella* sp., *Upeneus* sp., *Rastrelliger kanagurta*, etc.

- Dominant species - *Lethrinus* sp., *Caranx* sp., *Rastrelliger kanagurta* sp., *Saurida tumbil*., etc.
- Maximum catch recorded - September 2024
- Minimum catch recorded - June 2024

The major dominant fishery resources and the peak landing month in the 10 landing areas are given in Table 6.

. **Table 6: Dominant fishery resources and maximum catch month/s in the 10 landing areas of Tuticorin coast during April 2024 - September 2024**

Landing areas	Dominant fishery resources	Peak season / Month
Thirespuram	Jacks (Caranx sp.,)	April 2024
	Unicorn leatherjacket *(Aluterus monoceros)*	April 2024
	Emperors (*Lethrinus* sp.,)	July 2024
	Frigate mackerel *(Auxis thazard)*	April 2024
Mottaigopuram	Crustaceans - crab (*Portunus* sp.)	September 2024
	Shrimp *(Penaeus* sp.,)	April 2024
	Shrimp *(Metapenaeus* sp.,)	August 2024
	Emperors (*Lethrinus* sp.,)	September 2024
Siluvaipatti	Crustaceans - crab (*Portunus* sp.)	September 2024
	Emperors (*Lethrinus* sp.,)	September 2024
	Shrimp *(Penaeus* sp.,)	September 2024
	Shrimp *(Metapenaeus* sp.,)	April 2024
Vellapatti	Crustaceans - crab (*Portunus pelagicus)*	September 2024
	Crustaceans - crab (*Portunus sanguinolentus)*	August 2024
	Emperors *(Lethrinus* sp.,)	July 2024
	Emperors *(Lutjanus* sp.,)	April 2024
Tharuvaikulam	Emperors *(Lethrinus* sp.,)	July 2024
	Needlefish *(Strongylura leiura*)	August 2024
	Needlefish *(Tylosurus sp.,*)	August 2024
	Atlantic bluefin tuna *(Thunnus thynnus)*	September 2024
Pattinamaruthoor	Crustaceans - crabs (*Portunus pelagicus.,*)	September 2024
	Crustaceans - crabs (*Portunus sanguinolentus.,*)	August 2024
	Emperors *(Lethrinus* sp.,)	May 2024

	Needlefish *(Tylosurus sp.,*)	September 2024
Vaipar	Barracudas *(Sphyraena* sp.*,*)	July 2024
	Indian mackerel (*Rastrelliger kanagurta*)	September 2024
	Sardine *(Sardinella* sp.)	July 2024
	Emperors *(Lethrinus* sp.*,*)	August 2024
Sippikulam	Sardine *(Sardinella* sp.)	August 2024
	Indian mackerel (*Rastrelliger kanagurta*)	September 2024
	Trevally *(Carangoides sp.*)	August 2024
	Needlefish (*Tylosurus sp.*)	September 2024
Periyasamypuram	Crustaceans (*Portunus* sp.)	September 2024
	Cephalopods (*Sepiella* sp.)	September 2024
Vembar	Cephalopods (*Uroteuthis* sp.)	August 2024
	Crustaceans (Metap*enaeus* sp.)	July 2024
	Emperors *(Lethrinus* sp.*,*)	September 2024

4. Remarks

The marine environmental monitoring carried out during the period from April 2024 to September 2024 recorded no impact on the coastal ecology of Pattinamarudur including the coral reefs, seagrasses, associated fish population and other biological resources like macro- and meiobenthos and plankton. Also, there were no notable impacts on the physical and chemical properties and heavy metal concentrations of the marine water and sediment except for the seasonal variations. The water temperature increased during April and May 2024. The elevated prolonged sea surface temperature due to climate change caused moderate to severe coral bleaching, however most of the bleached coral colonies recovered due to fall of temperature level in June mainly due to rainfall and the changing climatic condition. The seawater became turbulent with high turbidity during April to July and so underwater visibility was not good. Fishing activity was almost normal except during strong wind days and deviation in fish landing data from the baseline can be due to fishing effort days, seasonal changes, and fishing pattern. The monitoring of cage culture of fish shows good fish population within and outside the cages, which indicates that the environment is healthy and conducive for marine organisms.

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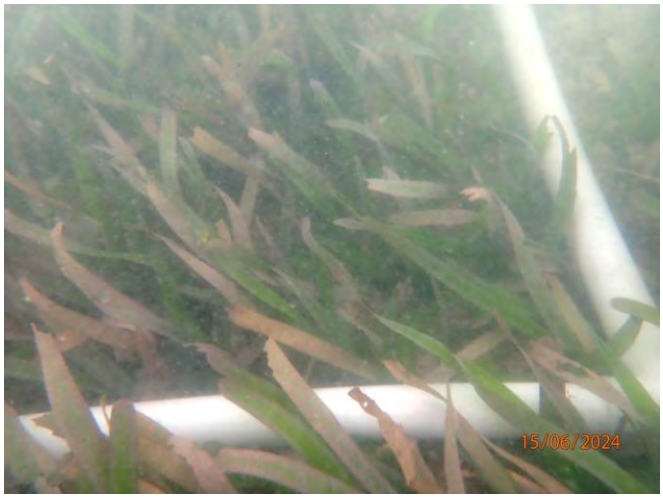
6. Photos

Status of seagrass, corals and fish population


15/05/2024


15/06/2024


14/09/2024


14/09/2024

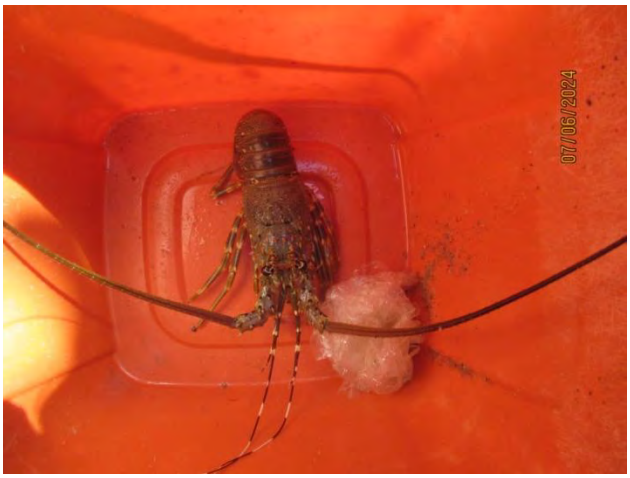
Fishing Landing & Catch Monitoring

Therespuram

Mottaigopuram

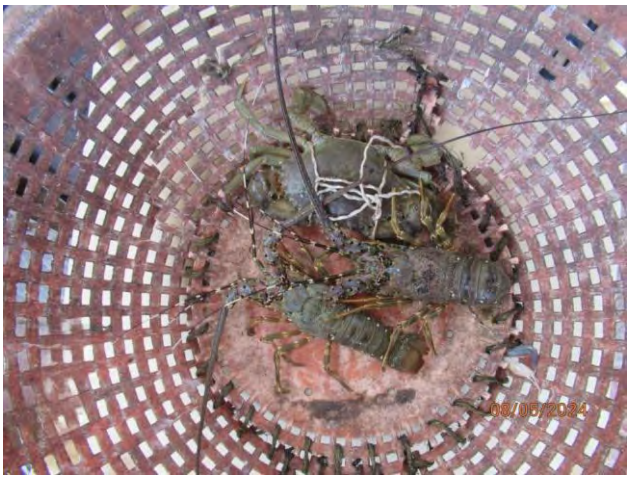
Siluvaipatti

Vellapatti



Tharuvaikulam

Pattinamaruthoor



Sippikulam

Vaipar

Periyasamypuram

Vembar


25. 09. 2024

ANNEXURE -8

Annexure - 8

COMPLIANCE TO THE CONDITIONS LAID BY MoEF VIDE OFFICE MEMORANDUM No.F.No.J-13012 /8/2009-IA.II(T) dated 11.11.2020

Period: April 2024 to September 2024

Sl.No.	CONDITIONS STIPULATED BY MoEF	COMPLIANCE
a)	Details regarding change in source (Location of the source, Proposed Quantity, Distance from the power plant and mode of transportation), Quality (Ash, Sulphur, Moisture Content and Calorific Value) shall be informed to the Ministry and its Concerned Regional Office .The Quantity of coal transported from each source along with the mode of transportation shall be submitted as part of EC Compliance Report.	Our Boiler is Designed with a blend of 50:50 imported and Indian Coal. We are using imported coal in our plant from Indonesia and we are transporting the coal from port/Melavittan Station to plant by using trucks. The quantity of coal transported for the period from April'24 to September'24 is as mentioned below; **Total - 1984203 MT** **Imported Coal (Indonesia) - 1984203 MT** **Indian Coal - Nil**
b)	The Applicable flue gas emissions standards for particulate matter, Sulphur Dioxide, Oxides of Nitrogen and Mercury Shall be complied in line with Ministry's Notification Vide S.O 3305 (E) dated 7.12.2015 and subsequent emissions. A Progress of implementation and its compliance shall be submitted as part of Compliance Report.	Continuous Stack emission and ambient air quality monitoring are being carried out and records are being maintained. The monitored data for the period of April'24 to September'24 is enclosed as **Annexure - 1.** The results are well within the prescribed norms. FGD Feasibility Study Completed. We have floated Tenders and awaiting Bids for Appointment of Consulting agency for Tender Preparation, Bid Evaluation, and Engineering Support during Execution.
c)	Ash Content in the coal and coal Transportation is governed by the Ministry's Notification Vide S.O 1561(E) dated 21.5.2020.As far as possible, Coal Transportation shall be done by rail/conveyor or other eco-friendly modes. However, road transportation is allowed with tarpaulin covered trucks till the railway / conveyor belt infrastructure is made available. A Progress (Physical and Financial) of rail connectivity from nearest railway siding or conveyor connectivity to the power plant shall be submitted in the EC Compliance Report.	At present Coal is being transported to our plant through trucks which are fully covered with tarpaulin. Railway line laying work is under Progress by Southern Railways close to our Plant. Engineering Scale Plan for "Takeoff line" to our Plant submitted to Southern Railways for Approval.
d)	Additional ash pond is not allowed due to increase in ash content in the raw coal as against the ash pond permitted in the Environment Clearance. The 100% Fly ash utilization is to be achieved within four years in line with fly ash notification dated 14.09.1999, 27.8.2003,03.11.2009 & 25.01.2016 and amended time to time or extant regulation on fly ash utilization.	100 % Fly Ash utilization is being achieved.
e)	In case of exceptional circumstances project proponents may approach the ministry for seeking permission to use an emergency ash pond with cogent reasons if any.	Noted.
f)	The Details Regarding monthly generation , utilization and disposal of fly ash (including bottom ash) shall be submitted to the ministry and its regional office	Complied. Attached as **Annexure -09**

MOXIE POWER GENERATION LIMITED ★ Melamarudur Tuticorin

ANNEXURE - 9

ANNEXURE -09

FLY ASH GENERATION & UTTILISATION DETAILS

Name of the Industry: Moxie Power Generation Limited,
2 X 600 MW Coal based Thermal Power Plant,
Thoothukudi District - 628 105.

Period: April'2024 to September'2024

FOR THE YEAR	TOTAL ASH GENERATION		TOTAL ASH GENERATION	USAGE OF FLY ASH		TOTAL FLY ASH UTTILISATION	USAGE OF BOTTOM ASH			TOTAL BOTTOM ASH UTTILISATION (LMT)	TOTAL ASH UTTLISATION (LMT)
	FLY ASH GENERATION (LMT)	BOTTOM ASH GENERATION (LMT)		CEMENT PLANT	BRICK INDUSTRIES (LMT)		LANDFILL (LMT)	BRICK INDUSTRIES (LMT)	CEMENT PLANTS (LMT)		
APRIL-2024	0.1401226	0.02371075	0.1638334	-	0.1401226	0.1401226	0.0237107	-	-	0.0237107	0.1638333
MAY-2024	0.1364425	0.0232	0.1596425	-	0.1364425	0.1364425	0.0232	-	-	0.0232	0.1596425
JUNE-2024	0.1042715	0.0147	0.1189715	-	0.1042715	0.1042715	0.0147	-	-	0.0147	0.1189715
JULY-2024	0.0726516	0.01200	0.08465	-	0.0726516	0.0726516	0.01200	-	-	0.01200	0.08465
August-2024	0.1116934	0.0197318	0.1314252	-	0.1116934	0.1116934	0.0197318	-	-	0.0197318	0.1314252
September-2024	0.1033195	0.0232659	0.1265854	-	0.1033195	0.1033195	0.0232659	-	-	0.0232659	0.1265854
* 100% Utilization of Ash achieved.											

MOXIE POWER GENERATION LIMITED ★ Melamarudur Tuticorin

MK Parameswaran

Station Head