

To
The Environmental Engineering,
Andhra Pradesh Pollution Control Board (APPCB)
Regional Office, Tirupati, Dr. Y.S.R Paryavaran Bhawan, N.T.Road,
Andhra Pradesh – 517502

Subject:

Submission of Six-monthly Compliance Status Report (Jan 2025 to Jun 2025) against Consent to Operate bearing no. 280810/APPCB/TPT/TPT/CTO/HO/2025 dated 13-04-2025 under Water (Prevention & Control of Pollution) Act, 1974 and Air Prevention & Control of Pollution) Act 1981 and the Authorization under Hazardous and other Wastes (Management & Transboundary Movement) Rules, 2016 – obtained by Meenakshi Energy Limited, a 1000 MW Thermal Power Plant, situated at village Thamminapatnam, Chillakur Mandal, District Tirupati, Andhra Pradesh.

Reference:

1. Consent to Operate (CTO) and Authorisation Order bearing No. 280810/APPCB/TPT/TPT/CTO/HO/2025 dated 13-04-2025.

Dear Sir,

With respect to the aforementioned subject and above cited reference, we would like to inform you that the Meenakshi Energy Limited, a 1000 MW Coal based Thermal Power Plant has obtained the renewal of the Consent to Operate under Water (Prevention & Control of Pollution) Act, 1974 and Air Prevention & Control of Pollution) Act 1981 and Authorization under Hazardous and other Wastes (Management & Transboundary Movement) Rules, 2016 vide Consent to Operate (CTO) and Authorization Order bearing No:280810/APPCB/TPT/TPT/CTO/HO/2025 dated 13-04-2025.

In adherence to the statutory requirement of submitting the Six-monthly compliance report against the conditions mentioned in the afore-said consent, we hereby submit the Six-monthly compliance report along with the necessary supporting documents for the period from Jan 2025 to June 2025 attached as Annexure-A.

This is being submitted for your kind consideration and records please.

Thanking You,

For and on behalf of Meenakshi Energy Limited



Authorised Signatory



Meenakshi Energy Limited

Site Office: Thamminapatnam (Village), Chillakur (Mandal), Tirupati, Andhra Pradesh, Pincode 524344, Andhra Pradesh
CIN No. U40101TG1996PLC054239

SIX MONTHLY COMPLIANCE REPORT
OF
1000 MW COAL BASED THERMAL POWER PLANT AT VILLAGE THAMMINAPATNAM,
DISTRICT TIRUPATI, ANDHRA PRADESH OF MEENAKSHI ENERGY LIMITED

Duration: Jan 2025 to June 2025

Consent Order No: 280810 / APPCB/TPT/TPT/CTO&HWA/HO/2025 date 13/04/2025

SCHEDULE-A		
S.No	CTO Conditions	Compliance Status
1	Any up-set condition in any industrial plant / activity of the industry, which result in increased effluent / emission discharge and/ or violation of standards stipulated in this order shall be informed to this Board, under intimation to the Collector and District Magistrate and take immediate action to bring down the discharge / emission below the limits.	Noted and being complied as and when applicable.
2	The industry should carryout analysis of wastewater discharges or emissions through chimneys for the parameters mentioned in this order on quarterly basis and submit to the Board.	Noted and being complied
3	All the rules & regulations notified by Ministry of Law and Justice, Government of India regarding Public Liability Insurance Act, 1991 should be followed as applicable.	Noted
4	The industry shall put up two sign boards (6x4 ft. each) at publicly visible places at the main gate indicating the products, effluent discharge standards, air emission standards, hazardous waste quantities and validity of CFO and exhibit of the CFO order at a prominent place in the factory premises.	Complied. Sign boards are placed at the main gate entrance. Annexure-1
5	Notwithstanding anything contained in this consent order, the Board hereby reserves the right and powers to review / revoke any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board	Noted
6	The applicant shall submit Environment statement in Form V before 30th September every year as per Rule No.14 of E(P) Rules, 1986 & amendments thereof.	Complied
7	The applicant should make applications through Online for renewal of Consent (under Water and Air Acts) and Authorization under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts and detailed compliance of CFO conditions for obtaining Consent & HW Authorization of the Board.	Noted



8	The industry should immediately submit the revised application for consent to this Board in the event of any change in the raw material used, processes employed, quantity of trade effluents & quantity of emissions. Any change in the management shall be informed to the Board. The person authorized should not let out the premises / lend / sell / transfer their industrial premises without obtaining prior permission of the State Pollution Control Board	Noted and will be complied as per applicability.
9	Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules 1982, to Appellate authority constituted under Section 28 of the Water(Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air(Prevention and Control of Pollution) Act, 1981.	Noted
10	The industry shall ensure that there shall not be any change in the process technology, source & composition of raw materials and scope of working without prior approval from the Board	Noted
11	The conditions stipulated are without prejudice to the rights and contentions of this Board in any Hon'ble court of law.	Noted
12	The industry shall be liable to pay Environmental Compensation / Other Environmental Taxes, if any environmental damage caused to the surroundings, as fixed by the Collector & District Magistrate or any other competent authority as per the Rules in vogue	Noted
13	The industry may explore the possibility of tapping the solar energy for their energy requirements.	Noted and will be complied
14	The industry should educate the workers and nearby public of possible accidents and remedial measures.	Being Complied with

SCHEDULE-B

1	The industry shall provide closed conveyor belt from the port to the power plant coal yard within three years.	Will be Complied.
2	The industry shall operate the water sprinklers provided in the coal yard at regular intervals and ensure that there shall not be any fugitive emissions from the coal yard.	Being Complied.
3	The industry shall develop the balance greenbelt in 38 acres in the ensuing monsoon.	Will be Complied
4	The industry shall ensure that the ash generated in phase -1 shall be transported directly from the silos to the trucks without any accumulation in the plant premises.	Being Complied.
5	The industry shall comply with the following effluent standards based on the disposal points permitted	Being complied.



Outlet No	Parameter	Limiting Standards (mg/l Except for pH and Temp.)
1 to 5	Cooling tower blow down	
	Free Available Chlorine	0.5
	Zinc	1.0
	Chromium (Total)	0.2
	Phosphate	5.0
6	Boiler Blow down	
	Total Suspended Solids (at 103 – 1050 C)	100
	Oil and Grease	20
	Copper (Total)	1.0
	Iron (Total)	1.0
1 to 5 (Marine disposal)	Colour and odour	All efforts should be made to remove the colour and unpleasant odour to the extent possible
	Suspended solids	100 mg/l.
6	Particulate size of suspended solids	a. Floatable solids max. 3mm b. Settable solids max 850 microns.
	pH	6.5 to 8.5
	Temperature	Should not exceed 5oC above the receiving water temperature
	Oil and grease	10 mg/l
	Total residual chlorine	1.0 mg/l
	Ammonical nitrogen	50 mg/l
	Total kjeldhal Nitrogen	100 mg/l
	Free Ammonia	5.0 mg/l
	Biochemical Oxygen demand [3 days at 27oC]	100 mg/l
	chemical oxygen demand	250 mg/l
	Arsenic	0.2 mg/l
	Mercury	0.01 mg/l
	Lead	2.0 mg/l
	Cadmium	2.0 mg/l
	Hexavalent Chromium	1.0 mg/l
	Free available chlorine	0.5 mg/l
	Total chromium	2.0 mg/l
	Copper	3.0 mg/l
	Zinc	1.0 mg/l
	Selenium	0.05 mg/l
	Nickel	5.0 mg/l
	Cyanide	0.2 mg/l
	Fluoride	15 mg/l
	Phosphates	5.0 mg/l

Being Complied.



7	Sulphide	5.0 mg/l
	Phenolic compounds	5.0 mg/l
	Radioactive materials a. Alpha emitter	10-7 micro curie/ml
	b. Beta emitter	10-6 micro curie/ml
	Bio assay test	90% survival of fish after 96 hours in 100% effluents
	Manganese	2.0 mg/l
	Iron	3.0 mg/l
	Vanadium	0.2 mg/l
	Nitrate Nitrogen	20 mg/l
	pH	5.5 – 9.0
	Total Suspended Solids	200 mg/l
	Oil and Grease	10 mg/l
	BOD	30 mg/l
	Fecal Coliform (FC) (Most probable number per 100 millilitre, MPN/100 ml)	<1000 MPN/100 ml

6	The source of water being Kandaleru creek. The following is the permitted water consumption:	Being Complied															
	<table border="1"> <thead> <tr> <th>S.No</th><th>Purpose</th><th>Quantity in KLD</th></tr> </thead> <tbody> <tr> <td>1</td><td>Process & Wash, Boiler feed (De-salinated fresh water)</td><td>12,331.0</td></tr> <tr> <td>2</td><td>Cooling tower makeup (Saline water)</td><td>1,88,784.0</td></tr> <tr> <td>3</td><td>Domestic (De-salinated fresh water)</td><td>560.0</td></tr> <tr> <td></td><td>Total</td><td>2,01,675.0</td></tr> </tbody> </table>	S.No	Purpose	Quantity in KLD	1	Process & Wash, Boiler feed (De-salinated fresh water)	12,331.0	2	Cooling tower makeup (Saline water)	1,88,784.0	3	Domestic (De-salinated fresh water)	560.0		Total	2,01,675.0	
S.No	Purpose	Quantity in KLD															
1	Process & Wash, Boiler feed (De-salinated fresh water)	12,331.0															
2	Cooling tower makeup (Saline water)	1,88,784.0															
3	Domestic (De-salinated fresh water)	560.0															
	Total	2,01,675.0															
7	The industry shall treat and reuse/recycle the entire waste water generated to the maximum extent possible. If excess, the industry shall discharge the cooling tower blow downs through pipeline to the sea. The industry shall maintain temperature recorders for outfall water.	Being Complied															
8	The industry shall not discharge cooling tower blow downs into Kandaleru Creek	Being Complied															
9	The industry shall provide flow meters preferably Electro Magnetic flow meters with totalizer for different streams of effluents and different categories of water usage stipulated in this order and to submit consolidate records to concerned ZO and RO every month	Complied															
10	The industry shall adopt Cycles of Concentration (COC) of cooling towers shall be maintained at 1.6 as stipulated in the E.C.	Being Complied															



	<p>The emission shall not contain constituents in excess of the prescribed limits mentioned below:</p> <table border="1"> <thead> <tr> <th>Chimney No</th><th>Parameter</th><th>Emission Standard</th></tr> </thead> <tbody> <tr> <td rowspan="4">1</td><td>Particulate Matter</td><td>50 mg/Nm3</td></tr> <tr> <td>Sulphur Dioxide (SO2)</td><td>600 mg/Nm3</td></tr> <tr> <td>Oxides of Nitrogen (Nox)</td><td>300 mg/Nm3</td></tr> <tr> <td>Mercury</td><td>0.03mg/Nm3</td></tr> <tr> <td rowspan="4">2</td><td>Particulate Matter</td><td>30 mg/Nm3</td></tr> <tr> <td>Sulphur Dioxide (SO2)</td><td>100 mg/Nm3</td></tr> <tr> <td>Oxides of Nitrogen (Nox)</td><td>100 mg/Nm3</td></tr> <tr> <td>Mercury</td><td>0.03mg/Nm3</td></tr> </tbody> </table>	Chimney No	Parameter	Emission Standard	1	Particulate Matter	50 mg/Nm3	Sulphur Dioxide (SO2)	600 mg/Nm3	Oxides of Nitrogen (Nox)	300 mg/Nm3	Mercury	0.03mg/Nm3	2	Particulate Matter	30 mg/Nm3	Sulphur Dioxide (SO2)	100 mg/Nm3	Oxides of Nitrogen (Nox)	100 mg/Nm3	Mercury	0.03mg/Nm3	
Chimney No	Parameter	Emission Standard																					
1	Particulate Matter	50 mg/Nm3																					
	Sulphur Dioxide (SO2)	600 mg/Nm3																					
	Oxides of Nitrogen (Nox)	300 mg/Nm3																					
	Mercury	0.03mg/Nm3																					
2	Particulate Matter	30 mg/Nm3																					
	Sulphur Dioxide (SO2)	100 mg/Nm3																					
	Oxides of Nitrogen (Nox)	100 mg/Nm3																					
	Mercury	0.03mg/Nm3																					
11		Complied with Online Continuous Stack Emission monitoring has been provided for monitoring Particulate matter, Sulphur dioxide and Nitrogen oxides and online data connected with CPCB and APPCB.																					
12	The industry shall comply with emission standards of particulate matter, sulphur dioxide, oxides of nitrogen and mercury as per notification number S.O. 3305 (E), dated 07.12.2015 issued by MoEF&CC, GOI.	Being Complied																					
13	The industry shall install and maintain FGD to comply with new emission norms for SO2 as per CPCB directions on 16.04.2018 and 24.04.2018.	Noted and will be complied-																					
14	The industry shall comply with standards and directions issued by CPCB / MoEF&CC as and when notifications are issued.	Noted.																					
15	The industry shall comply with ambient air quality standards of PM10 (Particulate Matter size less than 10mm) - 100 mg/ m3; PM2.5 (Particulate Matter size less than 2.5 mm) - 60 mg/ m3; SO2 - 80 mg/ m3; NOx - 80 mg/m3, outside the factory premises at the periphery of the industry	Being Complied																					
16	Standards for other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No.B-29016/20/90/PCI-I, dated 18.11.2009. Noise Levels: Day time (6 AM to 10 PM) - 75 dB (A) Night time (10 PM to 6 AM) - 70 dB (A)	Noted and Complied																					
17	The industry shall provide a sampling port with removable dummy of not less than 15 cm diameter in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc. A platform with suitable ladder shall be provided below 1 meter of sampling port to accommodate three persons with instruments. A 15 AMP 250 V plug point shall be provided on the platform.	Complied																					



18	The industry shall provide online emission monitoring system to the major stacks and connect the monitoring data to the APPCB website.	Complied. Online Continuous Stack Emission monitoring has been provided for monitoring Particulate matter, Sulphur dioxide and Nitrogen oxides and online data connected with CPCB and APPCB.
19	The industry shall maintain interlocking facility between APC equipment (ESP) and fuel feeding system, so as that the feeding of the fuel will be stopped automatically in case of the ESP fails/ tripping's are occurred.	Complied
20	The industry shall provide concrete roads in the plant and water shall be sprinkled on the roads periodically to control the fugitive dust emissions. Vacuum/Pneumatic dust collection system shall be used for cleaning the internal roads	Being Complied.
21	The industry shall maintain the mechanized dust suppression system (MDSS) to control fugitive emissions effectively to control the dust emissions& the dust collected from pollution control equipment shall be recycled back into the process. The mechanized dust suppression system should be operated continuously to ensure compliance of AAQ standards consistently.	Being Complied
22	The fugitive emissions level of Suspended Particulate Matter (SPM) shall not exceed 2000 $\mu\text{g}/\text{m}^3$ at a distance of 10 m from the monitoring locations identified according to the area like raw material handling area, crusher area, raw material fed area, cooler discharge area and product processing area where fugitive dust emission generation is anticipated. The measurement shall be done on 08 hours basis with high volume sampler.	Being complied
23	The industry shall maintain records for power consumption for operation of air pollution control equipments i.e. ESPs and bag filters.	Being complied
24	As per G.S.R. 593 (E) dated 28.06.2018 issued by MoEF&CC, if the power generation capacity is 100 MW and above, Physical stack height H (in meters) = $6.902 (Q \times 0.277)0.555$ or 100 m minimum. Q = Emission rate of SO ₂ in Kg/hr.	Complied



25	The industry shall ensure regular maintenance and operation of on-line stack monitoring systems and CAAQM stations with the tamper proof mechanism and having facilities for online calibration	Being Complied																
26	The industry shall put more efforts to control fugitive emissions generated during summer from ash ponds by providing more water sprinklers all around the ash ponds	Being Complied																
27	<p>Non-Hazardous solid waste disposal:</p> <table border="1"> <thead> <tr> <th>S.No</th> <th>Name of the waste</th> <th>Quantity of waste</th> <th>Disposal Option</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Fly Ash</td> <td>65162.88 TPM</td> <td>Shall be Sent to cement units, Road construction, Brick units and ash pond.</td> </tr> <tr> <td>2</td> <td>Boiler Bottom Ash</td> <td>16290.72 TPM</td> <td></td> </tr> <tr> <td>3</td> <td>Iron Scrap</td> <td>4.0 TPD</td> <td>Shall be disposed to authorized recyclers.</td> </tr> </tbody> </table>	S.No	Name of the waste	Quantity of waste	Disposal Option	1	Fly Ash	65162.88 TPM	Shall be Sent to cement units, Road construction, Brick units and ash pond.	2	Boiler Bottom Ash	16290.72 TPM		3	Iron Scrap	4.0 TPD	Shall be disposed to authorized recyclers.	Being Complied
S.No	Name of the waste	Quantity of waste	Disposal Option															
1	Fly Ash	65162.88 TPM	Shall be Sent to cement units, Road construction, Brick units and ash pond.															
2	Boiler Bottom Ash	16290.72 TPM																
3	Iron Scrap	4.0 TPD	Shall be disposed to authorized recyclers.															
28	Mercury and other heavy metals (Hg, Cr, As, Pb) shall be monitored in the bottom ash and also in the effluents emanating from the ash pond. Trend analysis reports shall be submitted to the concerned Regional Officer regularly.	Being Complied Third party monitoring being done and report submitted once in three months																
29	Regular monitoring of ground water in and around the ash pond area including heavy metals (Hg, Cr, As, Pb) shall be carried out. Records shall be maintained and half yearly reports shall be furnished to the concerned Regional Officer. The data obtained shall be compared with the baseline data so as to ensure that the ground water quality is not affected during implantation and operational phase of the project.	Being complied																
30	The industry shall install appropriate and adequate dust extraction system such as bag filters and water spray system in coal handling areas, ash handling points, transfer areas and other dusty areas to control dust emissions.	Complied																
31	Adequate safety measures shall be provided in the plant area to check / minimize spontaneous fires in coal yard, especially during summer season.	Being Complied.																



32	The industry shall complete and implement High Concentration Slurry Disposal System (HCSD) from Agitator Retention Tank (ART) within. The industry shall make adequate provisions for collection of seepage from ash pond and reuse for ash handling.	Noted and will be complied with.
33	The industry shall submit year wise action plan to achieve 100% fly ash disposal in compliance with the provisions of the Fly ash Notification.	Complied.
34	The industry shall provide mechanical coal conveying system from the port area to avoid fugitive emissions to the surrounding villages. The industry shall provide mechanical coal conveying system from the port area to avoid fugitive emissions to the surrounding villages.	Will be Complied
35	The industry shall adopt soil reclamation methods and to select specific type of tree species, which are endemic to local ecological conditions for the sustenance and growth. The progress in this regard shall be reported to RO periodically" and the industry has not complied the same. The industry shall maintain specific type of tree species, which are endemic to local ecological conditions for the sustenance and growth.	Noted
36	The industry shall carry out detailed study to identify all the major and minor sources contributing for fugitive dust emissions at plant premises and shall implement requisite dust containment/ suppression measures at sources.	Noted and being complied
37	The industry shall maintain web cameras to ensure operation of water sprinklers at coal yard.	Complied. Annexure-2
38	The industry shall maintain greenbelt buffer zone around the coal stock yard and shall operate water sprinklers continuously in order to prevent fugitive dust emissions.	Being Complied Annexure-3
39	The industry shall provide flow meters with totalizer at all sections and shall maintain records and to submit consolidate records to ZO and RO every month.	Being Complied
40	The industry shall expedite ash utilization as per the guidelines stipulated in Fly Ash Notification.	Noted
41	The industry shall set up a dedicated Environmental Wing equipped with expertise to ensure Environmental compliance in all aspects.	Complied
42	The industry shall comply with CPCB directions dated 05.02.2014 / 02.03.2015 and guidelines issued regarding online monitoring systems for effluents and emissions issued from time to time. The online monitoring systems shall be calibrated periodically as per equipment suppliers manual / CPCB	Noted and being complied



	guidelines.	
43	The industry shall maintain online ambient air quality monitoring systems with connectivity to Board's website.	Being complied Annexure-4
44	The industry shall comply with Fly Ash Notification dated 03.11.2009 and its amendments thereof, issued by MoEF&CC, GOI from time to time	Being Complied
45	The industry shall store the fly ash in silo and dispose the same from time to time without storing it openly. The industry shall undertake loading the fly ash directly into the trucks from ash silo.	Being Complied
46	Imported Coal shall be used as fuel, the Sulphur and Ash Content in Coal shall not exceed 1.3 % and 11 % respectively.	Noted.
47	The industry shall use blended coal which have sulphur content not exceeding 0.62% and ash content not exceeding 28.3%.	Complied
48	The industry shall not use any fuels other than those permitted in this order without prior consent from the Board. They shall maintain log registers on type of fuels & daily consumption etc. and shall furnish consolidated records to RO for every three months.	Being Complied
49	The industry shall ensure the regular mock drills to be carried out for checking on-site emergency plan prepared and also to ensure changes/ improvements required in the plant.	Being complied Annexure-5
50	Thick green belt shall be developed & maintained by the industry with tall growing trees in the vacant spaces of the unit.	Being Complied
51	The industry shall provide Rain Water Harvesting (RWH) structure within the plant site.	Noted and will be complied
52	The industry shall maintain the following records and the same shall be made available to the inspecting officers of the Board: a. Quantity of Effluents generated, treated, recycled/reused and discharged into creek/ sea. b. Log Books for pollution control systems. c. Characteristics of effluents, ambient air and emissions. d. Hazardous/non-hazardous solid waste generated and disposed. e. Inspection book. f. Manifest copies of hazardous waste.	Being complied
53	The industry shall comply with the standards issued by MoEF&CC / CPCB issued from time to time.	Noted



54	The industry shall submit compliance reports on the conditions mentioned in the consent order, safety audit reports, Fire NOC, Onsite / Offsite emergency plans (modifications if any), every six months i.e., on 1st of January and July of every year to the Regional Office/ Zonal Office.	Being Complied Annexure-6
55	The following rules and regulations (as amended and upgraded from time to time) notified by the MoEF&CC, GoI shall be implemented. a. Regulation of Persistent Organic Pollutants Rules, 2018. b. Hazardous waste and other wastes (Management and Transboundary Movement) Rules, 2016. c. Plastic Waste Management Rules, 2022. d. Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989. e. Fly Ash Notification, 2016. f. Battery Waste Management Rules, 2022. g. E-Waste (Management) Rules, 2022. h. Construction and Demolition waste Management Rules, 2016. i. Solid Waste Management Rules, 2016. j. The Public Liability Insurance Act, 1991 and its amendments thereof. k. Bio Medical Waste Management Rules, 2016	Noted and Being complied
56	The industry shall submit Half yearly compliance reports to all the stipulated conditions in Environmental Clearance (EC), Consent for Establishments (CFE) and Consent for Operation (CFO) through website i.e., https://pcb.ap.gov.in by 1st of January and 1st July of every year. The first half yearly compliance reports shall be furnished by the industry and second half yearly compliance reports shall be the audited through NABL accredited third party.	Complied
57	The industry shall install digital display boards at publicly visible places at the main gate indicating the products manufactured Vs permitted quantities, Treated effluent concentrations Vs discharge standards, Stack emission & AAQ concentrations Vs standards, hazardous waste generation, disposed, stock Vs permitted quantities and validity of CTO; and exhibit the CTO order at a prominent place in the factory premises, as per Hon'ble Supreme Court order.	Complied with Annexure-7
58	The industry shall maintain valid PLI policy which includes Environmental Relief Fund (ERF) and submit copy to RO on yearly base.	Being Complied with Annexure-8
59	The industry shall submit the Environmental Statement in Form – V	Complied.
60	The industry shall prepare a safety report and carry out an independent safety audit report of the respective industrial activities including chemical storages / isolated storages by an	Will be complied.



	expert not associated with such industrial activity as required under Rule 10 of MSIHC Rules, 1989 and get it approved by the Factories Dept., and submit the compliance along with copy of the safety report, safety audit report and safety certificate at concerned Regional Office, APPCB.	
61	The industry shall extend training to the working personnel for the prevention of accidents and necessary antidotes to ensure safety, as per the MSIHC Rules, 1989.	Complied
62	The industry shall carryout calibration of safety equipment and leak detection systems at regular intervals and shall certify the same with the Factories Department. That certified copy shall be submitted to the APPCB, Regional Office.	Noted and will be complied
63	The industry shall install fluorescent Wind Vane at the highest point in the industry premises.	Complied
64	The industry shall submit Risk analysis and risk assessment covering worst scenario clearly describing impact within the industry premises and outside the industry premises and emergency response system.	Noted and will be complied
65	The industry shall submit the copy of the safety audit report and On-Site / Off Site Emergency Plans as applicable after being certified by the Factories Department to the APPCB, Regional Office from time to time, if the storage quantity of hazardous chemicals is equal to or, in excess of the threshold quantities specified in schedule 2 & 3 of MSIHC Rules, 1989.	Noted and Will be complied

SCHEDULE-C

1	The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.	Noted
2	The authorisation shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.	Noted
3	The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.	Noted
4	Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.	Noted
5	The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;	Being Complied



6	The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty".	Noted.
7	It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.	Noted
8	An application for the renewal of an authorisation shall be made as laid down under these Rules.	Noted
9	The authorized person shall comply any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.	Noted
10	The industry shall comply with the provisions of HWM Rules, 2016 in terms of interstate transport of Hazardous Waste and manifest document prescribed Under Rule 18 and 19 of the HWM Rules, 2016.	Noted
11	The industry shall not store hazardous waste for more than 90 days as per the Hazardous and Other Wastes (Management & Trans boundary Movement) Rules, 2016.	Being Complied
12	The industry shall store Used / Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal to the manufacturers / dealers on buyback basis.	Being Complied
13	The industry shall maintain 7 copy manifest system for transportation of waste generated and a copy shall be submitted to concern Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of an emergency during transit. The transporter should carry a Transport Emergency (TREM) Card.	Noted and will be Complied
14	The industry shall maintain proper records for Hazardous and Other Wastes stated in Authorisation in Form-3 i.e., quantity of Incinerable waste, land disposal waste, recyclable waste etc., and file annual returns in Form-4 as per Rule 20 (2) of the Hazardous and Other Wastes (Management & Trans boundary Movement) Rules, 2016.	Complied
15	The industry shall route the hazardous waste through M/s. APEMC.	Noted and will be Complied.



ENVIRONMENT DISPLAY BOARDS AT MAIN GATE



Devin

Sprinklers at Coal yard



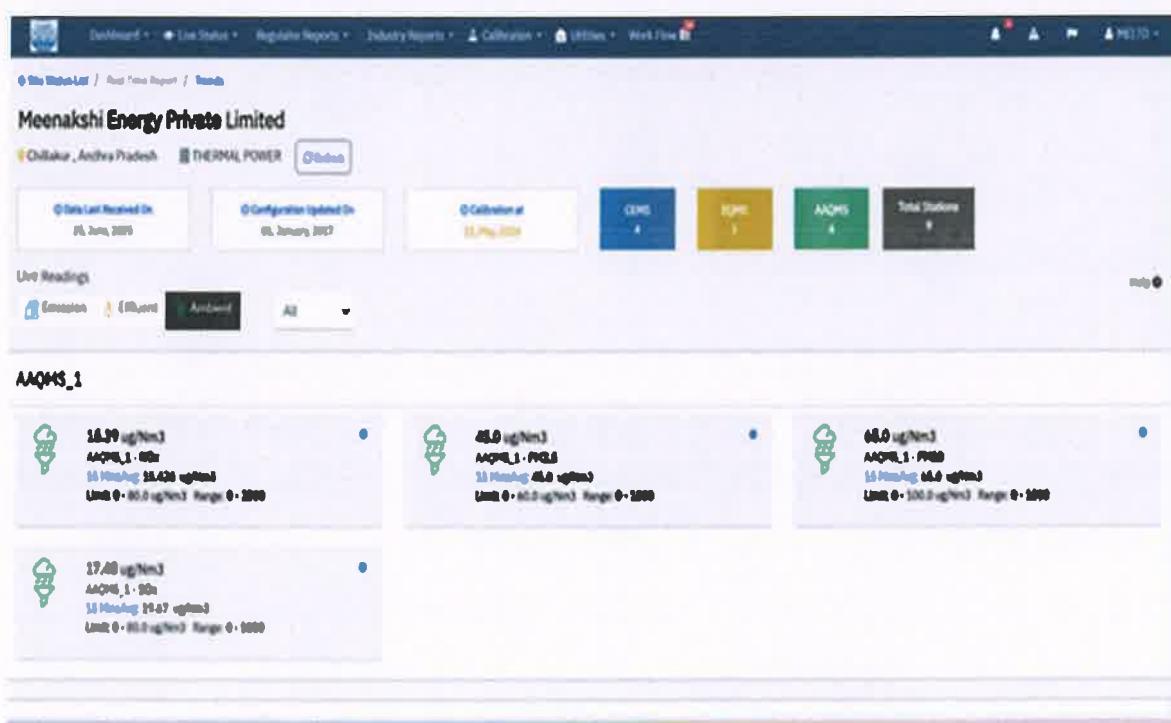
Web cameras at left and right side of the coal yard



Greenbelt in plant premises and coal yard surroundings



Jen

Online Ambient Monitoring Stations

Date of Mock Drill: 24.03.25

TIME: 14:34 Hours

Type of Emergency: Fire near LDO tank

Location: LDO tank – Phase#1

Total Response time:- 4 minutes





Sensitivity: Internal (C3)



**Government of Andhra Pradesh
A.P. State Disaster Response and Fire Services Department**

Fire No Objection Certificate for Occupancy

File No: 4449 /TPT/MSB/2024

Date: 10/10/2024

Sir/Madam,

Sub: Andhra Pradesh State Disaster Response and Fire Services Department - Issue of Fire No Objection Certificate for Occupancy to the existing Industrial Building of M/s **Meenakshi Energy Limited, Phase-I (2x150MW) & Phase-II (2x350MW)**, located at Thamminapatnam Village, Chillakur Mandal, Tirupati District - Regarding.

Ref:

1. Conditional NOC for Occupancy Rc.No: Rc.No.4272/NLR/RFO/2018, Dt.05-09-2018, for Phase-I (2x150MW).
2. NOC for Occupancy Rc.No: Rc.No.4253/NLR/MSB/2018, Dt.06-09-2018, for Phase-II (2x350MW).
3. Application dated Dt.20-09-2024, along with challan Number.81141976202024, Dt.25-06-2024

It is to inform that the management have applied for Fire No Objection Certificate for Occupancy on 24-07-2024 to the existing Industrial Building for M/s Meenakshi Energy Limited, Phase-I (2x150MW) & Phase-II (2x350MW), located at Thamminapatnam Village, Chillakur Mandal, Tirupati District. I hereby grant Occupancy Fire NOC for a period of One year.

2. In reference (2) above, you have said that you have taken reasonable fire safety precautions as per the authorized relevant industry experts through the following:

- a. HARA - Hazard Analysis and Risk Assessment
- b. QRA - Quantitative Risk Assessment
- c. On site & Offsite Emergency plans
- d. PESO - Petroleum and Explosives Safety Organization
- e. OISD - Oil Industry Safety Directorate
- f. Mines Safety Officer / Boiler Inspector
- g. Any other relevant Industry Specific Export
- h. Conducted " Mock Drill" with participation of all your employees, workers and their signatures confirming their satisfaction with the reasonable fire safety submitted.

3. You have Ensured that conventional Water Sprinklers were not installed in the following premises which may compound the problem:

- a. Where the water reactive materials are stored.
- b. Where crane movement up to roof level of the building..
- c. Where Electrical Traction with testing process is carried out.
- d. Where, Electronic goods/Servers are located.
- e. Where painting process is undertaken.
- f. Where the ambient temperature is maintained below 4°C.
- g. Where processing of non-metals which are water reactive, is carried out.
- h. Where Boiler areas/Silos areas are located.
- i. Where the height of single roof building is more than 17 meters.
- j. Where Cable galleries, Electrical Transformer are located.



Seal

- k. Urea Godowns
- l. Tobacco Godowns
- m. Electronic Industry
- n. Coastal Areas
- o. Corrosion Environment
- p. Solvent Yard

4. This Fire No Objection Certificate for occupancy is issued to confirm to above experts recommendations whichever is applicable to your industry.

5. In case of your industrial process requires large storage of toxic chemicals as defined in MSIHC (Manufacture, Storage, and Import of Hazardous Chemicals) rules 1989, you are required to avoid damage to the people living in neighborhood of the factory by scrupulously observing any of the following methods :

- a. By relocating the storage of toxic chemicals far away from any residential habitations and bringing only small required quantities or below critical quantities (which even if accidentally released cannot cause serious harm either to workers or to the community) to the factory for processing.
- b. By substituting the toxic chemicals with non-toxic chemicals.
- c. By relocating companies using toxic Chemicals to places far away from any residential habitation.
- d. Disclose the information related storage of such toxic chemicals to first responders (Police, Health, Fire & Revenue Departments) and neighborhood community so that they know what precautions to take in case of any unforeseen accident.

This is intended to prevent Bhopal gas or LG polymers type serious industrial accidents in the State

6. If you face any undue hardship, practical difficulty, then you can deploy alternative technologies (ISI or any International or Industry Standard) without sacrificing "reasonable" Fire Safety as absolute Fire Safety is not obtainable in practice.

7. As a Policy, no retrospective application of rules shall be made for building having any NOC as long as they comply with that NOC requirements till the life of the building.

8. Any clarifications, you are welcome to meet the DG, Fire Services (9441236448) without appointment in his office as ensuring fire safety with better and affordable technology is a continuous learning and collaborative endeavour.

Your sincerely,

Director General

State Disaster Response & Fire Services
Andhra Pradesh, Vijayawada

To

The Management of M/s Meenakshi Energy Limited, Phase-I (2x150MW) & Phase-II (2x350MW), located at Thamminapatnam Village, Chillakur Mandal, Tirupati District.

Copy to the General Manager, District Industry Centre, Concerned



Jain

MEENAKSHI ENERGY			
САДОМ-1 DATA			
#	PARAM	VALUE	UNIT
1	PM 10	52.50	ug/m3
2	PM 2.5	45.0	ug/m3
3	SO2	17.24	ug/m3
4	NO2	13.15	ug/m3

Data as on: 09-01-2025 19:04



MEENAKSHI ENERGY				
PHASE 1 CEMS UNIT 1 DATA				
#	PARAM	VAL	STD	UNIT
1	PM	12.50	050	mg/Nm ³
2	SO2	00.80	600	mg/Nm ³
3	NOX	00.30	300	mg/Nm ³

Data as on : 06/02/2025 05:10



MEENAKSHI ENERGY				
PHASE 1 EQMS DATA				
#	PARAM	VAL	STD	UNIT
1	pH	07.60	6-8.5pH	
2	TSS	76.90	100	mg/l
3	TEMP	30.10	--	°C

Data as on : 06/02/2025 05:15



Digitally Signed by: Shammi Kapoor

Date: 08/05/2025

Location: Mumbai



Date: 08/05/2025

MEENAKSHI ENERGY LIMITED
THAMMINAPATNAM VILLAGE INDUSTRIAL PARK
THAMMINAPATNAM TIRUPATI ANDHRA PRADESH
CHILLAKUR - 524412
NELLORE
ANDHRA PRADESH
INDIA
37AAACV8814G2Z5 (GSTIN Number)

Policy No : 0304013657**Renewal : 00****Endorsement : 00**

Dear Sir / Madam,

We thank you for choosing **Tata AIG General Insurance Company Ltd.** as your preferred insurer. Your Policy No. Is 0304013657 00 00.We are glad that you have chosen our product **PUBLIC LIABILITY ACT** and given us an opportunity to be your risk carrier for this Product.

'Casualty Line' caters to most of the Enterprises / Industries in India, whether Large, Medium or Small. As one of the India's most established insurance companies, we understand these unique needs of coverage. At Tata AIG we care for you and would strive to offer convenience coupled with a range of products that cater continuously to your ever increasing needs.

Enclosed please find your policy docket based on the information furnished by you in the Proposal.

We look forward to a long and mutually beneficial relationship and providing you wider range of benefits in the years to come.

Yours Sincerely,
 For Tata AIG General Insurance Company Limited



Insurance is the subject matter of the solicitation. For more details on risk factors, terms and conditions, please read sales brochure carefully before concluding a sale.
 TATA AIG General Insurance Company Ltd. Reed, Office: 15th floor, Tower A, Peninsula Business Park, Ganoatrao Kadam Marg, Off Senanati Bapat Marg, Lower Parel, Mumbai- 400 013.



**PUBLIC LIABILITY ACT POLICY
POLICY SCHEDULE**

Agent/Broker Name -MARSH INDIA INSURANCE BROKERS PVT LTD

Agent/Broker License Code - 120:Agent/Broker :Contact No - 022-66512947 (mobile or landline)

Attaching to and forming part of Policy No. 0304013657 00 00
Name of Insured Owner: Meenakshi Energy Limited
Business: Thermal Power Generation

Address: THAMMINAPATNAM VILLAGE INDUSTRIAL PARK
THAMMINAPATNAM TIRUPATI ANDHRA PRADESH
CHILLAKUR - 524412
NELLORE
ANDHRA PRADESH
INDIA
37AAACV8814G2Z5(GSTIN Number)
Place of supply -ANDHRA PRADESH
State code -37

Territorial limits: Anywhere in India

Policy Period: From: 14/04/2025 12:00 AM/ PM
To Midnight of: 13/04/2026 12:00 AM/ PM

Indemnity limit:Rs 10,000,000.00 in respect of any one accident and not exceeding 3 times thereof in the aggregate during the policy period.

Service Tax Registration No:

Premium	₹ 4,000.00
IGST @18 %	₹ 720.00

**Contribution to the
Environment Relief Fund:** ₹ 4,000.00

Date of Proposal and declaration: 14/04/2025

In witness whereof the undersigned being duly authorized by the company and on behalf of the company has hereto set his hand at GURGAON on 08/05/2025

The stamp duty of 0.5 paid in cash or demand draft or by pay order,vide Receipt/Challan no: LOA/ENF1/CSD/90/2024/25/5 dated the 01/01/2025

For Tata AIG General Insurance Company Limited

Date :08/05/2025
Place :GURGAON

Policy Servicing Office
Tata AIG General Insurance Company Limited
UNITECH CYBER PARK, TOWER-C,, UNIT NOS – 604,605, 606, 607,,GURGAON,HARYANA,GURGAON-122003
Tel No:91-91-7400412169



Insurance is the subject matter of the solicitation. For more details on risk factors, terms and conditions, please read sales brochure carefully before concluding a sale.
TATA AIG General Insurance Company Ltd. Reed. Office: 15th floor, Tower A. Peninsula Business Park. Ganoatrao Kadam Marg. Off Senapati Bapat Marg. Lower Parel. Mumbai- 400 013.

RECEIPT

Receipt No. : 102001104053783

Receipt Date : 14/04/2025

Policy No : 0304013657 00 00

Received with thanks from MEENAKSHI ENERGY LIMITED a sum of ₹ **8,720.00** (Rupees Eight Thousand Seven Hundred Twenty And Paise Zero Only)

Sr. No.	Policy Number	Total Premium (₹)	Utilized from the receipt for policy (₹)	Balance (₹)
1	0304013657 00 00	8,720.00	8,720.00	0.00

Note:

1. This is a computer generated receipt and does not require a signature.
2. Upon issuance of this Receipt, all previously issued temporary receipts, if any, related to this Policy shall be considered null and void.
3. Amounts received by cheque shall be subject to realisation.
4. Any amount received in excess of the Premium is being/shall be refunded by the Company.

GSTIN : 06AABCT3518Q1Z0 - HARYANA Service Accounting Code : 997139

Revenue (consolidated) Stamp Duty duly paid vide challan No. LOA/ENF1/CSD/83/2024/5365 date 30/11/2024 for applicable cases.

Insurance is the subject matter of the solicitation. For more details on risk factors, terms and conditions, please read sales brochure carefully before concluding a sale.
TATA AIG General Insurance Company Ltd. Regd. Office: 15th floor, Tower A, Peninsula Business Park, Ganpatrao Kadam Marg, Off Senapati Bapat Marg, Lower Parel, Mumbai-400 013,

IRDA Registration No.108, CIN No : U85110MH2000PLC128425, PAN : AABCT3518Q
Website: www.tataaig.com 24X7 Tollfree Helpline 1800-266-7780 E-mail: customersupport@tataaig.com



Insurance is the subject matter of the solicitation. For more details on risk factors, terms and conditions, please read sales brochure carefully before concluding a sale.
TATA AIG General Insurance Company Ltd. Regd. Office: 15th floor, Tower A, Peninsula Business Park, Ganpatrao Kadam Marg, Off Senapati Bapat Marg, Lower Parel, Mumbai-400 013.

