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OPG POWER GENERATION PVT. LTD.
CIN : U40109TN2005PTC055442

OPGPG. EHS /2025-26/185

17th June 2025

THE JOINT DIRECTOR

Govt. of India
Ministry of Environment and Forests
Regional Office (Southern Zone)
Kendriya Sadan, 4th Floor, E & F Wings
17th Main road,
Koramangala II Block,
Bangalore 560 034

Sir,

Sub: Compliance Status, Borewell Water Analysis and Ambient Air Quality Reports – Half Yearly Return – Reg.

Period: October 2024 to March 2025

Ref. MoEF Lr. No. J-13011/81/2007-IA. II (T), Dated 31.03.2008

Ref. MoEF Lr. No. J-13012/111/2009-IA. II (T), Dated 18.05.2011

- General Conditions
- Specific Conditions

Ref. MoEF Lr. No. J-13012/111/2009-IA. II (T), Dated 23.09.2014

We herewith submit the half-yearly Borewell water analysis report, Ambient Air Quality Monitoring report, Environmental Statement report and Compliance status report, Noise level monitoring report for the period from October 2024 to March 2025.

Thanking you

Yours faithfully,
For OPG POWER GENERATION PVT LTD

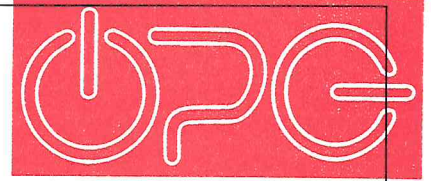
G. Balamurugan
General Manager



Reg. Off.: OPG Nagar, Periya Obulapuram Village, Nagaraja Kandigai,
Madharapakkam Road, Gummidipoondi, Thiruvallur, TamilNadu, India-601201.

E-mail : admin@opgpower.com

Website : www.opgpower.com



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G. Balamurugan
17/6/25

G.Balamurugan
General Manager

Reg. Off.: OPG Nagar, Periya Obulapuram Village, Nagaraja Kandigai,
Madharapakkam Road, Gummidipoondi, Thiruvallur, TamilNadu, India-601201.

E-mail : admin@opgpower.com

Website : www.opgpower.com

Encl.:

1. Environmental Clearance No. J-13011/81/2007-IA.II (T), Dated: 31.03.2008
Compliance status
2. Environmental Clearance No.J-13012/111/2009-IA.II (T) General Conditions –
Compliance status
3. Environmental Clearance No.J-13012/111/2009-IA.II (T) Special Conditions –
Compliance status
4. Environmental Clearance No.J-13012/111/2009-IA.II (T) Amendment for the
augmentation from 160MW to 180MW Conditions – Compliance status
5. Monthly Ash utilization Report – October 2024 to March 2025.
6. Bore well water Analysis report – October 2024 to March 2025.
7. Ambient Noise level Monitoring - October 2024 to March 2025.
8. CSR Activities - April 2024 to March 2025
9. Form V(Environmental Statement) FY 2023-24
10. TNCB AAQ, Stack & Noise Level Monitoring Survey FY 2024-25
11. Third Party AAQ, Stack & Noise Level Monitoring Survey FY 2024-25
12. Water Analysis Record by TNPCB
13. Compliance Annexures

- Spontaneous Combustion Control plan
- Class B & Class C Storage License documents
- Hydrogeological Study
- Rain water Harvesting Structure Development
- Green belt Development
- Piezometer Level Monitoring
- Health & Audiometric Record
- Public Hearing – Newspaper Advertisement
- Ash Customer List
- Analysis of Radio activity and Heavy Metals
- 54th MOM on Coal transportation
- Stack & AAQ Real time data's display @ gate
- APC & FC measures at coal handling Area
- First Aid & sanitation Arrangements
- SPM Compliance status for October 2024 to March 2025
- Ground Water Quality sustainability

CC: The District Environmental Engineer, Gummidipoondi without Annexures.

MoEF Half Yearly returns

(October 2024 – March 2025)

M/s OPG Power Generation Pvt Ltd

2x77, 1x80, 1x180 MW

Periaobulapuram Village,

Madharpakkam Road

Gummidipoondi

Thiruvallore District

Tamil Nadu - 601201

COMPLIANCE STATUS of MoEF EC Conditions

As on March 2025

Subject: - Environmental Clearance – 2 x77MW reg.		
Reference: - MoEF. Lr. No. J-13011/81/2007-IA.II(T), Dated: 31.03.2008		
A-Special Condition		Compliance Status Update
S.NO	Stipulated Conditions	Compliance Status As on 31.03.2025
1	The total land requirement for the project shall be restricted to 79.105 acres.	The land area utilized for power plant is 73.435 acres.
2	Sulphur and ash contents in the coal to be used in the project shall not exceed 1.2% and 15% respectively.	Sulphur and Ash contents in the coal shall not exceeds as mentioned in the guidelines.
3	Two stacks with continuous online monitoring equipment's for SO ₂ , NO _x and particulate matter shall be provided. The height of the stacks shall be as per the standards prescribed under the Environment (protection) Rules in this regards or 140 m whichever is more. Exit velocity of flue gases shall not be less than 20.14 m/sec.	Common stack with online continuous monitoring system for SO ₂ , NO _x and SPM was installed. Real Time Data is being connected with TNPCB Portal and Being displayed in LED Board at Gate
		The exit velocity of flue gases is more than 20.14 m/s, which is meeting the requirement of the said Rules.
4	High efficiency Electrostatic Precipitator (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm ³ .	High Efficiency ESP has been installed to ensure the PM level is below 50 mg/Nm ³ .
		Bag filters are installed in all the transfer towers of Coal. Real Time Data of particulate emission is being uploaded to TNPCB Care Air Centre.
5	Coal transportation will be done by rail up to Gummidipoondi Railway station and thereafter by road.	Coal will be transported from Ennore port to Gummidipoondi by Road since the rail transport was not feasible by railway. Clearance given by MoEF at the 54th meeting based on railways feedback. Details enclosed.
6	Fly ash shall be collected in dry form and storage facility (silos) shall be provided.100 % fly ash utilization shall be ensured from day one. Unutilized bottom ash shall be disposed of in the ash pond in conventional slurry mode.	Separate Silos are provided for fly ash and bottom ash. The fly ash and bottom ash are collected in dry form and are entirely used in cement brick making plants respectively. Ash customer list enclosed.

7	Ash pond shall be lined with LDPE lining. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.	Due to 100%, ash is being utilised in Cement Plants/Brick making plants ash pond not available. Ash Generation and Utilisation reports are being sent along with MOEF half yearly returns and PCB Monthly Returns
8	Adequate dust extraction system such as cyclones / bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	Adequate water sprinklers and Bag filters have been provided in coal and Ash handling points and transfer areas.
9	Water requirement shall not exceed 4.3m ³ /hr. Necessary prior permission for drawl of groundwater for the project shall be obtained from the Competent Authority.	Our operating units are installed with Air Cooled condenser and hence water requirement shall not exceed the prescribed limits.
10	Air cooled condenser shall be provided	Complied. Our operating units are installed with Air Cooled condenser.
11	The treated effluents conforming to the prescribed standards shall be recirculated and reused within the plant. There shall be no discharge outside the plant boundary except during monsoon for storm water. Arrangements shall be made that effluents and storm water do not get mixed.	Noted and being ensured. TNPCB is also collecting surprise checks and collecting samples. The reports are annexed. A clear demarcation has been made to avoid the mixing of effluent water with storm water in design itself.
12	A sewage treatment plant shall be provided and the treated sewage shall be used for raising greenbelt/plantation.	Sewage treatment plant is in place and the treated water is being used in our green belt.
13	Rain water harvesting should be adopted. Central Government Authority/Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of clearance and details shall be furnished.	Conducted Hydrogeological study in the study area and its recommendations are being implemented and monitoring. I. Rain Water harvesting with desilting chambers II. Recharge pits III. Infiltration pits in storm water drain path IV. Roof Top rainwater harvesting system

14	Regular monitoring of ground water in and around the ash pond area shall be carried out, records maintained and six monthly reports shall be furnished to the Regional Office of this Ministry.	Ground water levels and Heavy metals analysis is being monitored by constructed piezometer wells and Borewell. In house and TNPCB approved Third party analysis report attached as Annexure. Due to 100% ash is getting utilised in Cement Plants/Brick making plants ash pond not available
15	Leg of Noise emanating from steam turbines shall be limited to 75 dBA. For people working in the high noise area, requisite personal protective equipment like earplug/ear muffs etc, shall be provided. Workers engaged in noisy areas such as steam & gas turbines, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non-noisy/less noisy areas.	All the noise generating equipment's were installed with silencers/anti-vibrating pads. Once in a month noise level is being taken at turbine area and Air compressor area etc. Proper PPE's are issued to the concerned and enforcing to wear. Audiometric and health check-up records are maintained in standard forms. And ensured No one suffered hearing loss so far.
16	Storage facilities for storing LDO &HFO shall be made in the project area where risk of getting fire is minimum. Necessary safeguard measures for protection against fire hazard in the coal/LDO&HFO storage area shall be taken.	Onsite Emergency preparedness plan developed to mitigate fire accidents at LDO/Coal Storage area...
17	On-site Disaster Management Plan shall be provided and implemented. Regular mock drills shall be conducted and training programmes for the employees to handle fire and chemical hazards and to deal with the emergency shall conducted. Safety alarms shall be installed at strategic points including main gate, assembly points, first aid centre etc.	On-site Disaster Management Plan developed to mitigate to Fire and Chemical Hazards. Training programmes are being provided to handle Fire and Chemical Hazards.
18	A green belt of adequate width and density shall be developed around the plant periphery covering about 20 acres of project area preferably with local species.	More than 33% area is covered by green belt as per the condition.
19	First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Both the First Aid and Sanitation arrangement were provided for drivers, contract workers during construction phase. Same is being functional.

20	Regular monitoring of ground level concentration of SO ₂ , NO _x , 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 monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Six monthly reports shall be submitted to the Regional Office of this Ministry.	2 AAQ monitoring stations were installed at Upward (SW) and Down ward (NE) wind direction and the Real time Data's are being connected with TNPCB server Annual AAQ survey is being carried out by TNPCB and Boards approved third party. Reports are being submitted to MoEF along with Half Yearly return. Latest reports attached.
21	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from date of clearance letter, informing that the projects has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at website of the Ministry of Environment and Forests at http://envfor.nic.in .	Newspaper advertisements were published in two local newspapers. - Details attached
22	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	An Environment cell with the reporting to Plant Head is being functional.
23	Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to this Ministry/Regional Office/CPCB/SPCB.	Complied on project stage itself.
24	Regional Office of Ministry of Environment & Forests located at Bangalore will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information/copy of presentation submitted from time to time shall be forwarded to the Regional Office for their use during monitoring.	Complied on project stage itself.

25	Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. 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.	Separate fund has been allotted for environmental protection measures during project stage and same has been implemented.
26	The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.	Complied on project stage itself.
27	Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry at Bangalore / the CPCB/the SPCB who would be monitoring the compliance of environmental status.	Full Cooperation is being provided to officers of MoEF and CPCB /SPCB for monitoring the compliance of environmental status.

MOEF - EC GC 1x80+1x180 MW General Conditions		
Environmental Clearance No: J-13012/111/2009-IA.II (T)		
A- General Condition:		Compliance Status Update
S.NO	Stipulated Conditions	Compliance Status As on 31.03.2025
1	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.	The points are well taken care and we are having closed storage area with adequate compaction and spraying facility to minimize spontaneous combustion of coal.
		Documents posted in official website on project execution stage.
2	Storage facilities for auxiliary liquid fuel such as LDO and / HFO / LSHS shall be made in the plant area in consultation with Departments of Explosives, Nagpur. Sulphur content in the liquid fuel will not exceed 0.5% Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.	We are using only LDO procuring from Oil marketing Companies. The Storage License latest copy is enclosed.
		And Onsite Emergency preparedness plan developed to mitigate fire accidents at LDO Storage tank.
3	Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers Monitoring around the ash pond area shall be carried out particularly for heavy metals . (Hg , Cr , As , Pb) and records maintained and submitted 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.	Ground water levels and Heavy metals analysis is being monitored by constructed piezometer wells. Reports are attached.
		The result reveals that the ground water quality is sustaining.
4	Monitoring surface water quantity and quality shall also be regularly conducted and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall be undertaken.	We are not using any surface water and not discharging any liquid effluent from the plant. Heavy metals analysis in ground water is being carried out.

5	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Both the First Aid and Sanitation arrangement were provided for drivers, contract workers during construction phase. Same is being functional.
6	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dBA. For people working in the high noise area, requisite personal protective equipment like earplugs, ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc. shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non-noisy/less noisy areas.	All the noise generating equipment's were installed with silencers/anti-vibrating pads. Once in a month noise level is being taken at turbine area and Air compressor area etc.
		Proper PPE's are issued to the concerned and enforcing to wear. Audiometric and health check-up records are maintained in standard forms. And ensured No one suffered hearing loss so far.
7	Regular monitoring of ambient air ground level concentration of SO ₂ , NO _x , PM 2.5 & PM 10 and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.	2 AAQ monitoring stations were installed at Upward (SW) and Down ward (NE) wind direction and the Real time Data's are being connected with TNPCB & CPCB server.
		Annual AAQ survey is being carried out by TNPCB and Boards approved third party. Reports are being submitted to MoEF along with Half Yearly return. Latest reports attached.
8	Provision shall be made for the housing of construction labour (as applicable) 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. 100 rooms were constructed for construction labour inside the premises with basic amenities. After completion of the project, same was removed.

9	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project , one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter , informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board /Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in.	Newspaper advertisements were published in two local newspapers. - Details attached
		Documents posted in official website.
10	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat , Zila Parisad / Municipal Corporation , urban local Body and the Local NGO , if any , from whom suggestions /representations ,if any , received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Copy of NOC obtained from Tahsildar. Same was attached along with EC application.
11	An Environment Cell shall be created at the project site itself and shall be headed by an officer of appropriate seniority and qualification. It shall be ensured that the head of the Cell shall directly report to the head of the organization.	An Environment cell with representation from all functional departments the reporting to Plant Head is being functional.
12	The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM , RSPM (PM2.5 & PM 10), SO2 , NOx (ambient levels as well as stack emissions)shall be displayed at a convenient location near the main gate of the company in the public domain.	All our Stack emission analysers and AAQ analysers were connected to both SPCB and CPCB servers from 23.02.2016 and parameters are being monitored on a real time basis and the same is being displayed at the gate as per guideline.

13	The environment statement for each financial year ending 31st March in Form V as in 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 clearance conditions and shall also be sent to the respective Regional Officers of the Ministry by e- mail.	Form V is being submitted annually to the Tamil Nadu Pollution Control Board and along with MOEF Half Yearly return.
14	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Regional Ministry of Environment and Forests, its Bangalore Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of the compliance of the environment of the environmental clearance conditions of their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests.	A half yearly report which comprises of the following is being sent to the Regional MoEF Office. 1) Compliance status of EC Conditions along with supportive documents. 2) Ground water analysis results 3) Noise level results 4) Ash disposal details 5) Annual AAQ reports by TNPCB & Boards approved third party.
15	Regional Office of the Ministry of Environment & Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental impact Assessment Report and Environmental Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring .Project proponent will up – load the compliance status in their website and up-date the same from time to time at least six monthly basis. Criteria pollutants levels including NOx (from stack & ambient air) shall be displayed at the main gate of the power plant.	All our Stack emission analyser's and AAQ analysers were connected to both SPCB and CPCB servers from 23.02.2016 and parameters are being monitored on a real time basis and being displayed at the gate as per guideline.

16	Separate funds shall be allocated for implementation of environmental protection measures along with item – wise break up. These cost shall be included as part of the project cost. The funds year marked for the environment protection measures shall not be diverted for another purposes and year –wise expenditure should be reported to the Ministry.	Separate fund is being allotted for environmental protection measures and same has been implemented.
17	The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and dates of start of land development work and commissioning of plant.	Complied on project stage itself.
18	Full cooperation shall be extended to the Scientists /Officers from the Ministry /regional Office of the Ministry of Bangalore / CPCB / SPCB who would be monitoring the compliance of environmental status	Full Cooperation is being provided to officers of MoEF and CPCB /SPCB for monitoring the compliance of environmental status.

MOEF - EC GC 1x80+1x180 MW Special Conditions		
Environmental Clearance No: J-13012/111/2009-IA.II (T)		
A- Special Condition:		Compliance Status Update
S.NO	Stipulated Conditions	Compliance Status As on 31.03.2025
1	Vision document specifying prospective plan for the site shall be formulated and submitted to the Ministry within six months.	Documents posted in our Official website.
2	The project proponent shall intake up the matter for transportation of coal by rail with the Railways. Progress made in this regard shall be submitted to the Regional Office of the Ministry from time to time.	Documents posted in our Official website.
3	High Efficiency Electrostatic Precipitators (ESPS) Shall be installed to ensure that particulate emission does not exceed 50 mg/Nm ³ . Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as cyclones/ bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	99.9% Efficiency ESP has Been installed to ensure the PM level below 50 mg/Nm ³ . Bag filters are installed In all the transfer towers to control dust emission. Online data for SO _x /NO _x /SPM is being uploaded to TNPCB & CPCB website.
4	Sulphur and ash contents in the coal to be used in the project shall not exceed 0.8% and 25% respectively at any given time. In case of variation of coal quality at any point of time fresh reference shall be made to MoEF for suitable amendments to environmental clearance condition wherever necessary.	We are importing coal from Indonesia which has the maximum sulphur % of 0.15. We are ensuring that both the Sulphur and Ash content shall not exceed the prescribed norms.

5	Stacks of 100 m and 120 m height respectively shall be installed and provided with continuous online monitoring equipment for SO _x , NO _x and PM _{2.5} and PM ₁₀ . Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack may also be monitored on periodic basis.	Stacks of 100m, 120m height respectively has been installed. Continuous online monitoring equipment for 1x80 MW and 1x180MW was installed and the data is being uploaded to TNPCB website. Exit velocity is maintained always above 22 m/s. Mercury emissions from stack are being monitored periodically with Boards approved laboratory.
6	Existing de-generated water bodies (if any) in the study area shall be regenerated at the project proponents expenses in consultation with the state Govt.	Conducted Hydrogeological study in the study area and its recommendations are being implemented
7	Water requirement for running the plant to begin with shall be met from ground water after obtaining approval of the competent authority. However, the project proponent shall use harvested rain water in the long run. Air cooled condenser shall be installed for condensate cooling.	Ground water approval has been Obtained from SG & SWRDC – PWD – Tharamani for withdrawal of 1600 KLD. Harvested rainwater is mainly utilised for the process and Air cooled condensers are installed for condensate cooling as per instruction.
8	Hydro-geological status (quality and quantity) of ground water shall be reviewed annually from and institute / organization of repute to assess impact of surface water and ground regime (especially around ash dyke). In case and deterioration is observed specific mitigation measures shall be undertaken and reports / data of water quality monitored regulation and maintained shall be submitted to the Regional Office of the ministry.	Conducted Hydrogeological study in the study area and its recommendations are being implemented. In-house analysis is being carried out on monthly basis and with third party on half yearly basis. The results reveal that the ground water quality is sustaining.

9	Source of water for meeting the requirement during lean season shall be specified and submitted to the Regional office of the ministry within three months.	Our operating units are installed with Air Cooled condenser and hence water requirement shall not exceed the prescribed Norms.
10	No water bodies (including natural drainage system in the area shall be disturbed due to activates associated with the setting up / operation of the power plant.	Storm water drains with infiltration wells have been made in the plant to enrich the ground water table in the plant without affecting the natural drain. No water bodies were disturbed and natural drainage system is being maintained.
11	A well designed rainwater harvesting shall be put in place before commissioning of the plant. Central Groundwater Authority / Boards shall be consulted for finalization of appropriate rainwater harvesting technology / design within a period of three months from the date of this clearance and details shall be furnished.	Conducted Hydrogeological study in the study area and its recommendations are being implemented and monitoring. a) Rain Water harvesting with desilting chambers b) Recharge pits c) Infiltration pits in storm water drain path d) Roof Top rainwater harvesting system
12	The treated effluents conforming to the prescribed standards only shall be recirculated and reused within the plant. Arrangement shall be made that effluents and storm water do not get mixed. A sewage treatment plant shall be provided (as applicable) and the treated Sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt / plantation.	Noted and being ensured. TNPCB is collecting Regular samples. The reports are annexed. Storm water drain are designed to ensure effluent water do not mix with. Sewage treatment plant is in place and the treated water is being used in our green belt.
13	Additional soil for levelling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.	Complied on project stage.

14	Utilisation of 100% Fly ash generated shall be made from day one of commissioning of the plant. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.	100 % Ash utilisation is ensured as per condition from day one. The Ash utilisation details are annexed.
15	Fly ash shall be collected in dry from and storage facility (silos) shall be provided. Unutilized fly ash shall be disposed off in the ash pond in the form of slurry form. Mercury and other heavy metals (As, Hg, Cr, Pb etc.) will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.	Separate silos are provided for Fly ash and bottom ash with adequate capacity. 100% Ash is being utilized. The ash utilization and the analysis reports are annexed. No ash is dumped at any point of time
16	Ash pond (if any) shall be lined with HDPE / LDPE lining or any other suitable impermeable media such that no leachate takes place at any point of time. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.	100 % Ash utilisation is ensured as per condition from day one. So we are not having Ash pond.
17	Green Belt consisting of 3 tiers of plantations of native species around plant and at least 30 m width shall be raised. Tree density shall not less than 2500 per ha with survival rate not less than 80%.	More than 33% area is covered by green belt as per the condition.
18	The project proponent shall also adequately contribute in the development of the neighbouring villages. Special package with implementation schedule for providing fluoride free potable drinking water supplying the nearby village and schools shall be undertaken in a time bound manner.	Noted and complying with. CSR Activities is being under progress in the development of the neighbouring villages

19	An amount of Rs. 4.8 Crores shall be earmarked as one time capital cost for CSR Programme. Subsequently a recurring expenditure of Rs. 0.96 Crores per annum till the operation of the plant shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within one month along with road map for implementation.	Complied on project stage itself. CSR Activities is being under progress in the development of the neighbouring villages
20	While identifying CSR activities it shall be ensured that need based assessment for the nearby villages within study area shall be conducted to study economic measures with action plan which can help in upliftment of poor section of society. Income generating projects consistent with the traditional skills of the people shall be undertaken. Development of fodder farm, fruit bearing orchards vocational training etc. can form a part of such programme. Company shall provide separate budget for community development activities and income generating programmes. Vocational training programme for possible self-employment and jobs shall be imparted to identify villagers free of cost.	Noted and Complying with. CSR Activities is being under progress in the development of the neighbouring villages.
21	It shall be ensured that in – built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region the project proponent shall also submit the status of implementation of the scheme from time to time.	Noted and Complying with. CSR Activities is being under progress in the development of the neighbouring villages.

Environment Clearance J-13012/111/2009-IA.II (T)		
Amendment for the augmentation from 160 to 180 MW		Compliance Status Update
S.NO	Stipulated Conditions	Compliance Status As on 31.03.2025
1	The matter for transportation of coal by rail shall be expedited. The progress made in this regard shall be submitted to the Ministry and its R.O from time to time.	Coal will be transported from Ennore port to Gummidipoondi by Road since the rail transport was not feasible by railway. Clearance given by MoEF at the 54th meeting based on railways feedback.
2	A long term study of radio activity and heavy metals contents on coal to be used shall be carried out through a reputed institute. Thereafter, mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.	The detailed Ash analysis are being carried out by third party.
3	Harnessing solar power within the premises of the plant particularly at available roof tops shall be undertaken and status of implementation shall be submitted periodically to the Regional Office of the Ministry.	Conversion of street lights to LED lamps is in progress. Conversion to solar base study and implementation is in progress.
4	Fugitive emissions shall be controlled to prevent impact on agricultural or non- agricultural land.	Fogging and dust extraction systems are installed at all the probable locations.

5	Fly ash shall not be used for agricultural purpose. No mine void filling will be undertaken as an option for ash utilization without adequate lining of mine with suitable media such that no leachate shall take place at any point of time. In case, the option of mine void filling is to be adopted, prior detailed study of soil characteristics of the mine area shall be undertaken from an institute of repute and adequate clay lining shall be ascertained by the State Pollution Control Board and implementation done in close co-ordination with the State Pollution Control Board.	We are not using any Fly ash for agricultural purpose. 100% Fly Ash and Bottom Ash is being utilised in Cement plants/Brick making plants and road projects.
6	Green belt shall also be developed around the Ash Pond over and above the Green Belt around the plant boundary.	100 % Ash is being utilised in Cement / Brick industries. We are not having any Ash pond. 30% green belt coverage as per direction was completed and nurturing is in progress.
7	The project proponent shall formulate a well laid Corporate Environment Policy and identify and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with the conditions stipulated in this clearance letter and other applicable environmental laws and regulations.	Corporate EHS policy formulated. The plant is certified for ISO 14001 - 2015 Environment Management System and ISO 45001 -2018 Occupational Health and Safety management System.

Monthly Ash Utilization Report

(October 2024 to March 2025)



MONTHLY FLY ASH AND BOTTOM ASH
GENERATION, UTILIZATION DETAILS

October 2024

NAME AND ADDRESS OF THE SUPPLIER: OPG POWER GENERATION PRIVATE LIMITED
MADHARPAKKAM ROAD, PERIYA OBULAPURAM
GUMMIDIPOONDI 601 201

Accumulated Quantity of Ash at the start of the month (MT)	Details	Kept at Ash dyke	Kept at Silo
	Fly Ash	Nil	Nil
	Bottom Ash	Nil	Nil

ASH GENERATION for the month of October 2024

1	Quantity of Blended coal used during this Month	1,54,159.70 MT
2	Average ash content in the coal	3.95823 %
3	Generation of Fly ash	4,881.60 MT
4	Generation of Bottom Ash	1,220.40 MT

ASH DISPOSAL

Fly Ash

1	To Cement Industries	4,881.60 MT
2	To Brick Industries	NIL
3	Total disposal of Fly ash	4,881.60 MT

Bottom Ash

1	To Brick Industries	1,220.40 MT
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ASH ACCUMULATION

1	Fly Ash Kept in Ash dyke	NIL
2	Fly Ash Kept in Silos MT	NIL
3	% of utilization	100 %
4	Bottom Ash kept in Silos in MT	NIL
5	% of utilization	100 %

Fly Ash & Bottom Ash sent to the following Industries

- | | |
|-------------------------------------|---------------------------------------|
| 1. Chettinad cement corporation ltd | 14. Sri Praveen Enterprises |
| 2. DKR Enterprises | 15. Sri Sai Transport KPR |
| 3. Durai Selvam | 16. Sri Sakthi Enterprises (Debtor) |
| 4. Kanniamman Enterprises | 17. Sun Rock Industry |
| 5. N.S.Enterprises | 18. The Ramco Cements Limited |
| 6. Om Vinayaga Traders | 19. Cheliyan Enterprises |
| 7. Padmavadhi Traders | 20. Ultra Tech Cements Reddypalayam |
| 8. RKC Enterprises | 21. Dalmia Cement (Bharat) Ltd |
| 9. SN Suppliers | 22. Jayachandran |
| 10. Sri Mookambika Bricks & Blocks | 23. Goodwin Flyash Bricks |
| 11. Tharun Vikas Construction | 24. Sri Flyash Bricks & Paving Blocks |
| 12. Kamalakannan Enterprises | |
| 13. CMR Transport | |



MONTHLY FLY ASH AND BOTTOM ASH
GENERATION, UTILIZATION DETAILS

November 2024

NAME AND ADDRESS OF THE SUPPLIER: OPG POWER GENERATION PVT LTD
MADHARPAKKAM ROAD, PERIYA OBULAPURAM
GUMMIDIPOONDI 601 201

Accumulated Quantity of Ash at the start of the month (MT)	Details	Kept at Ash dyke	Kept at Silo
	Fly Ash	Nil	Nil
	Bottom Ash	Nil	Nil

ASH GENERATION for the month of November 2024

1	Quantity of Blended coal used during this Month	31,377 MT
2	Average ash content in the coal	3.85 %
3	Generation of Fly ash	966.41 MT
4	Generation of Bottom Ash	241.60 MT

ASH DISPOSAL

Fly Ash

1	To Cement Industries	127.77 MT
2	To Brick Industries	NIL
3	Total disposal of Fly ash	127.77 MT

Bottom Ash

1	To Brick Industries	241.60 MT
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ASH ACCUMULATION

1	Fly Ash Kept in Ash dyke	NIL
2	Fly Ash Kept in Silos MT	838.64
3	% of utilization	100 %
4	Bottom Ash kept in Silos in MT	NIL
5	% of utilization	100 %

Fly Ash sent to the following Industries

1. Om Vinayaga Traders
2. RKC Enterprises

Bottom Ash sent to the following Industries

1. Krishna Enterprises

	MONTHLY FLY ASH AND BOTTOM ASH GENERATION, UTILIZATION DETAILS	December 2024
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NAME AND ADDRESS OF THE SUPPLIER: OPG POWER GENERATION PVT LTD
MADHARPAKKAM ROAD, PERIYA OBULAPURAM
GUMMIDIPOONDI 601 201

Accumulated Quantity of Ash at the start of the month (MT)	Details	Kept at Ash dyke	Kept at Silo
	Fly Ash	Nil	838.64
	Bottom Ash	Nil	Nil

ASH GENERATION for the month of December 2024

1	Quantity of Blended coal used during this Month	97,474 MT
2	Average ash content in the coal	5.269035 %
3	Generation of Fly ash	4108.75 MT
4	Generation of Bottom Ash	1,027.19 MT

ASH DISPOSAL

Fly Ash

1	To Cement Industries	4,947.39 MT
2	To Brick Industries	NIL
3	Total disposal of Fly ash	4,947.39 MT

Bottom Ash

1	To Brick Industries	1,027.19 MT
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ASH ACCUMULATION

1	Fly Ash Kept in Ash dyke	NIL
2	Fly Ash Kept in Silos MT	NIL
3	% of utilization	100 %
4	Bottom Ash kept in Silos in MT	NIL
5	% of utilization	100 %

Fly Ash sent to the following Industries

1	Durai selvam	13	SN Suppliers
2	Om Vinayaga Traders	14	N.S.Enterprises
3	Padmavathi Traders	15	Dalmia Cement Ariyalur
4	Sri Mookambika Bricks and Blocks	16	Jayachandran
5	Sri Praveen Enterprises	17	Sri sai Transport KPR
6	Sun Rock Industry	18	Cheliyan Enterprises
7	The Ramco Cements Limited	19	Goodwin Flyash Bricks
8	Kanniamman Enterprises	20	Tharun Vikas Construction
9	DKR Enterprises	21	CMR Transport
10	Sri Sakthi Enterprises(Deptor)	22	Kamalakkannan Enterprises
11	Chettinad Cement	23	Ultra Tech Cements Limited (Reddipalayam)
12	RKC Enterprises		

Bottom Ash sent to the following Industries

1. Krishna Enterprises



MONTHLY FLY ASH AND BOTTOM ASH
GENERATION, UTILIZATION DETAILS

January 2025

NAME AND ADDRESS OF THE SUPPLIER: OPG POWER GENERATION PVT LTD
MADHARPAKKAM ROAD, PERIYA OBULAPURAM
GUMMIDIPOONDI 601 201

Accumulated Quantity of Ash at the start of the month (MT)	Details	Kept at Ash dyke	Kept at Silo
	Fly Ash	Nil	Nil
	Bottom Ash	Nil	Nil

ASH GENERATION for the month of January 2025

1	Quantity of Blended coal used during this Month	86,386.48 MT
2	Average ash content in the coal	4.849185 %
3	Generation of Fly ash	3,351.23 MT
4	Generation of Bottom Ash	837.81 MT

ASH DISPOSAL

Fly Ash

1	To Cement Industries	3,351.23 MT
2	To Brick Industries	NIL
3	Total disposal of Fly ash	3,351.23 MT

Bottom Ash

1	To Brick Industries	837.81 MT
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ASH ACCUMULATION

1	Fly Ash Kept in Ash dyke	NIL
2	Fly Ash Kept in Silos MT	NIL
3	% of utilization	100 %
4	Bottom Ash kept in Silos in MT	NIL
5	% of utilization	100 %

Fly Ash sent to the following Industries

1	Durai selvam	12	RKC Enterprises
2	Om Vinayaga Traders	13	N.S.Enterprises
3	Padmavathi Traders	14	Dalmia Cement Ariyalur
4	Sri Mookambika Bricks and Blocks	15	Jayachandran
5	Sri Praveen Enterprises	16	Sri sai Transport KPR
6	Sun Rock Industry	17	Cheliyan Enterprises
7	The Ramco Cements Limited	18	Tharun Vikas Construction
8	Kanniamman Enterprises	19	Kamalakannan Enterprises
9	DKR Enterprises	20	Ultra Tech Cements Limited (Reddipalayam)
10	Sri Sakthi Enterprises(Deptor)	21	Lakshmiipathy Enterprises
11	Chettinad Cement		

Bottom Ash sent to the following Industries

1. Krishna Enterprises



MONTHLY FLY ASH AND BOTTOM ASH
GENERATION, UTILIZATION DETAILS

February 2025

NAME AND ADDRESS OF THE SUPPLIER: OPG POWER GENERATION PVT LTD
MADHARPAKKAM ROAD, PERIYA OBULAPURAM
GUMMIDIPOONDI 601 201

Accumulated Quantity of Ash at the start of the month (MT)	Details	Kept at Ash dyke	Kept at Silo
	Fly Ash	Nil	Nil
	Bottom Ash	Nil	Nil

ASH GENERATION for the month of February 2025

1	Quantity of Blended coal used during this Month	1,33,951.653 MT
2	Average ash content in the coal	18.99723 %
3	Generation of Fly ash	20,357.68 MT
4	Generation of Bottom Ash	5,089.42 MT

ASH DISPOSAL

Fly Ash

1	To Cement Industries	20,357.68 MT
2	To Brick Industries	NIL
3	Total disposal of Fly ash	20,357.68 MT

Bottom Ash

1	To Brick Industries	5,089.42 MT
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ASH ACCUMULATION

1	Fly Ash Kept in Ash dyke	NIL
2	Fly Ash Kept in Silos MT	NIL
3	% of utilization	100 %
4	Bottom Ash kept in Silos in MT	NIL
5	% of utilization	100 %

Fly Ash sent to the following Industries

1	Durai selvam	15	Jayachandran
2	Om Vinayaga Traders	16	Sri sai Transport KPR
3	Padmavathi Traders	17	Cheliyan Enterprises
4	Sri Mookambika Bricks and Blocks	18	Tharun Vikas Construction
5	Sri Praveen Enterprises	19	Kamalakaran Enterprises
6	Sun Rock Industry	20	Ultra Tech Cements Limited (Reddipalayam)
7	The Ramco Cements Limited	21	CMR Transport
8	Kanniamman Enterprises	22	Goodwin Flyash Bricks
9	DKR Enterprises	23	K.N.Ravikumar
10	Sri Sakthi Enterprises(Deptor)	24	Sai Agencies
11	Chettinad Cement	25	Sri Flyash Bricks & Paving Blocks
12	RKC Enterprises	26	Ultra Tech Cements Limited (Arakkonam)
13	N.S.Enterprises	27	Lakshmpathy Enterprises
14	Dalmia Cement Ariyalur		

Bottom Ash sent to the following Industries

1. Krishna Enterprises



MONTHLY FLY ASH AND BOTTOM ASH
GENERATION, UTILIZATION DETAILS

March 2025

NAME AND ADDRESS OF THE SUPPLIER: OPG POWER GENERATION PVT LTD
MADHARPAKKAM ROAD, PERIYA OBULAPURAM
GUMMIDIPOONDI 601 201

Accumulated Quantity of Ash at the start of the month (MT)	Details	Kept at Ash dyke	Kept at Silo
	Fly Ash	Nil	Nil
	Bottom Ash	Nil	Nil

ASH GENERATION for the month of March 2025

1	Quantity of Blended coal used during this Month	1,67,217 MT
2	Average ash content in the coal	17.728795 %
3	Generation of Fly ash	23,716.45 MT
4	Generation of Bottom Ash	5,929.11 MT

ASH DISPOSAL

Fly Ash

1	To Cement Industries	23,716.45 MT
2	To Brick Industries	NIL
3	Total disposal of Fly ash	23,716.45 MT

Bottom Ash

1	To Brick Industries	5,929.11 MT
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ASH ACCUMULATION

1	Fly Ash Kept in Ash dyke	NIL
2	Fly Ash Kept in Silos MT	NIL
3	% of utilization	100 %
4	Bottom Ash kept in Silos in MT	NIL
5	% of utilization	100 %

Fly Ash sent to the following Industries

1	Durai selvam	16	Sri sai Transport KPR
2	Om Vinayaga Traders	17	Cheliyan Enterprises
3	Padmavathi Traders	18	Kamalakaran Enterprises
4	Sri Mookambika Bricks and Blocks	19	Ultra Tech Cements Limited (Reddipalayam)
5	Sri Praveen Enterprises	20	CMR Transport
6	Sun Rock Industry	21	Goodwin Flyash Bricks
7	The Ramco Cements Limited	22	K.N.Ravikumar
8	Kanniamman Enterprises	23	Sai Agencies
9	DKR Enterprises	24	Sri Flyash Bricks & Paving Blocks
10	Sri Sakthi Enterprises(Deptor)	25	Ultra Tech Cements Limited (Arakkonam)
11	Chettinad Cement	26	SN Suppliers
12	RKC Enterprises	27	Lakshmi Pathy Enterprises
13	N.S.Enterprises	28	IK Enterprises
14	Dalmia Cement Ariyalur	29	IWL India Private Limited
15	Jayachandran		

Bottom Ash sent to the following Industries

1. Krishna Enterprises

Bore well Analysis Report

(October 2024 to March 2025)

	OPG Power Generation Pvt Ltd.,	Doc.No - OPGPG/0/OPN/EHS /BW/ 04
	Bore well Analysis	FY 2024-25

BORE WELL WATER ANALYSIS

October - 2024

BOREWELL WATER SAMPLES -October - 2024										
S.No	Sample Details BOREWELL -ID	pH	EC (µS/cm)	Silica as SiO ₂ (mg/l)	Total Suspended Solids (mg/l)	Total Alkanity (mg/l)	Total Hardness as CaCO ₃ (mg/l)	Calcium Hardness as CaCO ₃ (mg/l)	Magnesium Hardness as CaCO ₃ (mg/l)	Chloride as Cl (mg/l)
1	P-I- BW.No-1	7.09	662	73	1	396	184	92	92	102
2	P-I- BW.No-2	7.18	1176	76	1	252	208	56	152	47
3	P-I- BW.No-3	7.15	937	83	1	380	220	104	116	
4	P-I- BW.No-4	7.24	1179	74	1	292	260	108	152	
5	P-I- BW.No-5	7.30	1216	76	2	360	184	52	132	
6	P-I- BW.No-6	7.24	1098	76	1	380	200	88	112	
7	P-II- BW.No-1	xxxxxxxx-- Sample Not Received ----- xxxxxxxxxxxx								
8	P-II- BW.No-2	7.01	825	76	1	228	172	56	116	85
9	P-II- BW.No-3	xxxxxxxx-- Sample Not Received ----- xxxxxxxxxxxx								
10	P-II- BW.No-4	7.10	1112	83	1	368	220	100	120	71
11	P-II- BW.No-5	7.08	754	80	1	340	240	72	168	43
12	P-II- BW.No-6	7.17	807	77	1	268	160	76	84	45
13	P-II- BW.No-7	6.77	583	83	1	244	120	64	56	48
14	P-II- BW.No-8	7.10	939	70	1	292	228	116	112	99
15	P-II- BW.No-9	7.39	623	72	2	260	168	68	100	34
16	P-II- BW.No-10	7.33	759	76	1	332	212	76	136	62
17	50 Feet PZM Store	7.35	981	71	2	340	168	56	112	
18	50 Feet PZM Open Coal Yard	6.92	1438	61	1	312	352	184	168	
19	50 Feet PZM Labour Shed	6.98	870	75	2	396	256	128	128	
20	200 Feet PZM Store	7.34	1056	10	1	148	224	88	136	
21	200 Feet PZM Open Coal Yard	7.88	3350	56	1	472	132	56	76	
22	200 Feet PZM Labour Shed	8.22	914	31	1	384	112	40	72	

November - 2024

BOREWELL WATER SAMPLES -November - 2024										
S.No	Sample Details BOREWELL -ID	pH	EC (µS/cm)	Silica as SiO ₂ (mg/l)	Total Suspended Solids (mg/l)	Total Alkanity (mg/l)	Total Hardness as CaCO ₃ (mg/l)	Calcium Hardness as CaCO ₃ (mg/l)	Magnesium Hardness as CaCO ₃ (mg/l)	Chloride as Cl (mg/l)
1	P-I- BW.No-1	7.89	952	66	1	315	185	80	105	85
2	P-I- BW.No-2	7.85	723	79	1	245	160	100	60	32
3	P-I- BW.No-3	7.19	976	84	1	345	210	130	80	67
4	P-I- BW.No-4	7.42	1230	82	1	255	240	135	105	145
5	P-I- BW.No-5	7.08	1345	66	4	390	215	90	125	149
6	P-I- BW.No-6	7.31	1035	85	1	360	210	105	105	82
7	P-II- BW.No-1	xxxxxxxx-- Sample Not Received ----- xxxxxxxxxxxx								
8	P-II- BW.No-2	7.13	668	83	1	200	150	100	50	64
9	P-II- BW.No-3	xxxxxxxx-- Sample Not Received ----- xxxxxxxxxxxx								
10	P-II- BW.No-4	7.30	1078	75	2	360	230	110	120	64
11	P-II- BW.No-5	7.86	769	91	1	300	200	90	110	43
12	P-II- BW.No-6	7.22	810	83	1	285	185	115	70	43
13	P-II- BW.No-7	6.75	605	93	1	210	135	70	65	36
14	P-II- BW.No-8	7.25	929	85	2	290	200	120	80	92
15	P-II- BW.No-9	xxxxxxxx-- Sample Not Received ----- xxxxxxxxxxxx								
16	P-II- BW.No-10	7.95	763	76	1	320	195	105	90	57
17	50 Feet PZM Store	7.47	1304	73	1	350	190	85	105	149
18	50 Feet PZM Open Coal Yard	6.88	1565	39	9	300	330	215	115	156
19	50 Feet PZM Labour Shed	7.16	833	58	2	360	230	125	105	28
20	200 Feet PZM Store	7.10	384	4	7	75	70	40	30	60
21	200 Feet PZM Open Coal Yard	8.09	3419	51	6	455	145	55	90	762
22	200 Feet PZM Labour Shed	7.80	939	30	1	390	135	70	65	50

	OPG Power Generation Pvt Ltd.,	Doc.No - OPGPG/0/OPN/EHS /BW/ 04
	Bore well Analysis	FY 2024-25

December - 2024

BOREWELL WATER SAMPLES -December - 2024										
S.No	Sample Details BOREWELL ID	pH	EC (µS/cm)	Silica as SiO ₂ (mg/l)	Total Suspended Solids (mg/l)	Total Alkalinity (mg/l)	Total Hardness as CaCO ₃ (mg/l)	Calcium Hardness as CaCO ₃ (mg/l)	Magnesium Hardness as CaCO ₃ (mg/l)	Chloride as Cl (mg/l)
1	P-I- BW.No-1	8.00	1050	73	1	268	176	40	136	113
2	P-I- BW.No-2	7.79	628	80	1	244	112	88	24	23
3	P-I- BW.No-3	7.63	922	84	1	336	140	112	28	62
4	P-I- BW.No-4	7.60	1526	82	2	272	320	180	140	204
5	P-I- BW.No-5	7.54	1021	78	1	336	204	112	92	82
6	P-I- BW.No-6	7.72	1052	80	1	348	236	108	128	91
7	P-II- BW.No-1	xxxxxxxx----- Sample Not Received due to pump not available ----- xxxxxxxxxxxx								
8	P-II- BW.No-2	7.53	769	80	1	208	164	100	64	79
9	P-II- BW.No-3	7.62	1005	39	1	360	228	80	148	77
10	P-II- BW.No-4	7.74	1020	72	3	336	176	84	92	79
11	P-II- BW.No-5	7.85	747	81	1	320	308	96	212	48
12	P-II- BW.No-6	8.18	631	74	1	256	140	72	68	34
13	P-II- BW.No-7	7.12	587	91	1	224	148	60	88	45
14	P-II- BW.No-8	7.50	863	74	1	288	204	112	92	82
15	P-II- BW.No-9	xxxxxxxx----- Sample Not Received due to pump not available ----- xxxxxxxxxxxx								
16	P-II- BW.No-10	8.01	716	83	2	312	168	76	92	45
17	50 Feet PZM Store	7.52	1430	79	1	500	252	64	188	156
18	50 Feet PZM Open Coal Yard	7.34	1524	36	1	240	328	188	140	233
19	50 Feet PZM Labour Shed	7.42	836	50	1	428	368	124	244	17
20	200 Feet PZM Store	7.66	1300	11	2	152	200	116	84	244
21	200 Feet PZM Open Coal Yard	8.00	3304	60	4	436	136	60	76	766
22	200 Feet PZM Labour Shed	7.95	948	29	1	404	144	36	108	51

January - 2025

BOREWELL WATER SAMPLES -January - 2025										
S.No	Sample Details BOREWELL ID	pH	EC (µS/cm)	Silica as SiO ₂ (mg/l)	Total Suspended Solids (mg/l)	Total Alkalinity (mg/l)	Total Hardness as CaCO ₃ (mg/l)	Calcium Hardness as CaCO ₃ (mg/l)	Magnesium Hardness as CaCO ₃ (mg/l)	Chloride as Cl (mg/l)
1	P-I- BW.No-1	8.62	1045	75	2	280	170	50	120	124
2	P-I- BW.No-2	7.94	599	75	1	200	130	65	65	28
3	P-I- BW.No-3	7.22	975	79	1	350	200	140	60	78
4	P-I- BW.No-4	7.64	1471	78	1	250	290	160	130	213
5	P-I- BW.No-5	Sample not received due to Pump not available								
6	P-I- BW.No-6	7.82	1020	67	1	325	195	105	90	71
7	P-II- BW.No-1	Sample not received due to Pump not available								
8	P-II- BW.No-2	8.33	680	78	1	175	125	75	50	71
9	P-II- BW.No-3	7.14	1025	38	4	390	210	100	110	89
10	P-II- BW.No-4	8.03	969	64	2	285	215	100	115	57
11	P-II- BW.No-5	8.64	539	85	3	200	100	35	65	50
12	P-II- BW.No-6	8.45	576	77	1	200	100	70	30	39
13	P-II- BW.No-7	8.85	440	83	2	190	105	50	55	50
14	P-II- BW.No-8	7.30	873	78	2	285	210	115	95	96
15	P-II- BW.No-9	Sample not received due to Pump not available								
16	P-II- BW.No-10	7.35	816	82	1	330	185	90	95	64
17	50 Feet PZM Store	8.48	1267	67	8	435	155	50	105	149
18	50 Feet PZM Open Coal Yard	6.88	1498	42	2	285	335	180	155	252
19	50 Feet PZM Labour Shed	7.39	936	51	1	380	250	155	95	32
20	200 Feet PZM Store	7.87	2365	20	9	330	340	125	215	461
21	200 Feet PZM Open Coal Yard	8.53	3298	57	2	430	140	60	80	769
22	200 Feet PZM Labour Shed	8.20	895	26	4	390	130	60	70	53

	OPG Power Generation Pvt Ltd.,	Doc.No - OPGPG/0/OPN/EHS /BW/ 04
	Bore well Analysis	FY 2024-25

February - 2025

BOREWELL WATER SAMPLES -February - 2025										
S.No	Sample Details BOREWELL ID	pH	EC (µS/cm)	Silica as SiO ₂ (mg/l)	Total Suspended Solids (mg/l)	Total Alkalinity (mg/l)	Total Hardness as CaCO ₃ (mg/l)	Calcium Hardness as CaCO ₃ (mg/l)	Magnesium Hardness as CaCO ₃ (mg/l)	Chloride as Cl (mg/l)
1	P-I- BW.No-1	8.25	1022	72	2	270	210	150	60	115
2	P-I- BW.No-2	7.82	605	70	1	205	175	110	65	35
3	P-I- BW.No-3	7.26	912	71	1	335	265	155	110	71
4	P-I- BW.No-4	7.36	1325	77	1	275	280	145	135	170
5	P-I- BW.No-5	7.11	1002	70	1	292	302	168	134	65
6	P-I- BW.No-6	7.18	1020	65	1	320	285	170	115	65
7	P-II- BW.No-1	Sample not received due to Pump not available								
8	P-II- BW.No-2	8.11	666	74	1	225	220	144	76	62
9	P-II- BW.No-3	7.05	905	42	2	375	340	220	120	72
10	P-II- BW.No-4	7.92	910	61	2	285	215	100	115	51
11	P-II- BW.No-5	8.25	535	81	1	250	100	35	65	55
12	P-II- BW.No-6	8.10	550	72	1	200	100	70	30	42
13	P-II- BW.No-7	8.65	465	77	2	190	105	50	55	56
14	P-II- BW.No-8	7.11	895	72	2	285	210	115	95	75
15	P-II- BW.No-9	Sample not received due to Pump not available								
16	P-II- BW.No-10	7.35	816	82	1	330	185	90	95	64
17	50 Feet PZM Store	8.48	1267	67	8	435	155	50	105	149
18	50 Feet PZM Open Coal Yard	6.88	1498	42	2	285	335	180	155	252
19	50 Feet PZM Labour Shed	7.39	936	51	1	380	250	155	95	32
20	200 Feet PZM Store	7.87	2365	20	9	330	340	125	215	461
21	200 Feet PZM Open Coal Yard	8.53	3298	57	2	430	140	60	80	769
22	200 Feet PZM Labour Shed	8.20	895	26	4	390	130	60	70	53

March-2025

BOREWELL WATER SAMPLES -March - 2025										
S.No	Sample Details BOREWELL ID	pH	EC (µS/cm)	Silica as SiO ₂ (mg/l)	Total Suspended Solids (mg/l)	Total Alkalinity (mg/l)	Total Hardness as CaCO ₃ (mg/l)	Calcium Hardness as CaCO ₃ (mg/l)	Magnesium Hardness as CaCO ₃ (mg/l)	Chloride as Cl (mg/l)
1	P-I- BW.No-1	8.12	1105	75	2	275	170	110	60	105
2	P-I- BW.No-2	7.55	605	75	1	215	175	119	56	32
3	P-I- BW.No-3	7.10	975	79	1	360	200	140	60	75
4	P-I- BW.No-4	7.65	1272	78	1	275	290	160	130	192
5	P-I- BW.No-5	7.65	1370	78	1	250	290	160	130	75
6	P-I- BW.No-6	7.75	1102	67	1	330	195	105	90	78
7	P-II- BW.No-1	Sample not received due to Pump not available								
8	P-II- BW.No-2	8.33	720	78	1	175	125	75	50	71
9	P-II- BW.No-3	7.14	1005	38	4	390	210	100	110	89
10	P-II- BW.No-4	8.03	950	64	2	285	215	100	115	57
11	P-II- BW.No-5	8.64	550	85	3	200	100	35	65	50
12	P-II- BW.No-6	8.45	550	77	1	200	100	70	30	39
13	P-II- BW.No-7	8.85	480	83	2	190	105	50	55	50
14	P-II- BW.No-8	7.30	855	78	2	285	210	115	95	96
15	P-II- BW.No-9	7.35	830	75	2	270	192	115	77	96
16	P-II- BW.No-10	7.35	802	82	1	330	185	90	95	64
17	50 Feet PZM Store	8.48	1322	67	8	435	155	50	105	149
18	50 Feet PZM Open Coal Yard	6.88	1425	42	2	285	335	180	155	252
19	50 Feet PZM Labour Shed	7.39	925	51	1	380	250	155	95	32
20	200 Feet PZM Store	7.87	2450	20	9	330	340	125	215	461
21	200 Feet PZM Open Coal Yard	8.53	3210	57	2	430	140	60	80	769
22	200 Feet PZM Labour Shed	8.20	856	26	4	390	130	60	70	53

Ambient Noise Level Monitoring

(October 2024 to March 2025)

	OPG Power Generation Pvt Ltd.,	Doc.No - OPGPG/0/OPN/EHS /NL/ 04
	2 x 77, 1 x 80, 1 x 180 MW TPP	FY 2024-25

AMBIENT NOISE LEVEL MONITORING - October 2024 to March 2025

October-2024

Ambient NOISE LEVEL (October - 2024)								
Date	Day Time (6.00 AM to 10.00 PM)				Night Time (10.00 PM to 06.00 AM)			
	North Side	South Side	West Side	East Side	North Side	South Side	West Side	East Side
Limits in dB	55				45			
4-Oct-2024	45	44	42	42	35	33	36	35
11-Oct-2024	42	41	41	41	32	35	35	33
18-Oct-2024	45	42	42	41	35	36	38	35
25-Oct-2024	41	45	41	42	36	32	36	35

November-2024

Ambient NOISE LEVEL (November - 2024)								
Date	Day Time (6.00 AM to 10.00 PM)				Night Time (10.00 PM to 06.00 AM)			
	North Side	South Side	West Side	East Side	North Side	South Side	West Side	East Side
Limits in dB	55				45			
1-Nov-2024	45	42	45	40	35	35	32	32
8-Nov-2024	42	44	42	42	36	35	35	35
15-Nov-2024	45	41	41	41	35	35	32	32
22-Nov-2024	45	42	42	42	32	36	35	35
29-Nov-2024	44	41	41	41	32	35	36	36

December-2024

Ambient NOISE LEVEL (December - 2024)								
Date	Day Time (6.00 AM to 10.00 PM)				Night Time (10.00 PM to 06.00 AM)			
	North Side	South Side	West Side	East Side	North Side	South Side	West Side	East Side
Limits in dB	55				45			
6-Dec-2024	45	44	45	44	35	36	35	38
13-Dec-2024	42	45	47	45	36	35	35	34
20-Dec-2024	45	41	45	45	35	34	36	33
27-Dec-2024	47	42	41	45	36	36	35	36

	OPG Power Generation Pvt Ltd.,	Doc.No - OPGPG/0/OPN/EHS /NL/ 04
	2 x 77, 1 x 80, 1 x 180 MW TPP	FY 2024-25

January-2025

Ambient NOISE LEVEL (January - 2025)								
Date	Day Time (6.00 AM to 10.00 PM)				Night Time (10.00 PM to 06.00 AM)			
	North Side	South Side	West Side	East Side	North Side	South Side	West Side	East Side
Limits in dB	55				45			
3-Jan-2025	44	45	44	45	35	36	35	33
10-Jan-2025	45	41	45	41	36	35	36	35
17-Jan-2025	47	42	47	45	34	36	35	35
24-Jan-2025	45	45	44	42	35	35	36	35
31-Jan-2025	44	45	42	44	35	35	32	35

February-2025

Ambient NOISE LEVEL (February - 2025)								
Date	Day Time (6.00 AM to 10.00 PM)				Night Time (10.00 PM to 06.00 AM)			
	North Side	South Side	West Side	East Side	North Side	South Side	West Side	East Side
Limits in dB	55				45			
7-Feb-2025	45	42	45	45	36	35	32	35
14-Feb-2025	47	45	45	48	35	36	35	33
21-Feb-2025	45	47	42	45	36	35	34	36
28-Feb-2025	45	44	47	47	35	36	35	35

March-2025

Ambient NOISE LEVEL (March - 2025)								
Date	Day Time (6.00 AM to 10.00 PM)				Night Time (10.00 PM to 06.00 AM)			
	North Side	South Side	West Side	East Side	North Side	South Side	West Side	East Side
Limits in dB	55				45			
7-Mar-2025	45	47	45	45	35	36	35	33
14-Mar-2025	45	45	44	45	35	36	33	38
21-Mar-2025	44	45	44	45	35	36	35	38
28-Mar-2025	45	45	47	44	35	36	35	36

CSR Activities FY 2024-25

PLANT - CSR EXPENDITURES FOR 2024 - 2025 in Lakhs																		
S.No	CSR Schedule VII	Programme Name	Beneficiary Count	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	TOTAL	Expenses Type Monthly/ Annually	Total Expenses
1	Promoting Education	PTA Teachers Salary (11 Teachers)	11	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	10.63	Monthly	₹ 10.63
2	Promoting health care	SR Kandigai Wellness Center	1000	-	-	-	-	-	1.18	1.18	1.18	1.18	1.18	1.18	1.18	8.26	Monthly	₹ 8.26
3	Ensuring Environment Sustainability	Pipe Line Kayalarmedu	300	0.27	-	-	-	-	-	-	-	-	-	-	-	0.27	Annual	₹ 16.16
4		Pipeline Eechangadumedu	250	-	-	-	2.95	-	-	-	-	-	-	-	-	2.95	Annual	
5		Pethikuppam Pond De-silting	1000	-	-	-	-	-	-	1.25	-	-	-	-	-	1.25	Annual	
6		Periya Obulapuram Borewell	1200	-	-	-	-	-	-	-	8.50	-	-	-	-	8.50	Annual	
7		Meendum Manjapai (TNPCB Program)		-	-	-	-	-	-	-	-	1.20	-	-	-	1.20	Annual	
8	Rural Development Projects	Pipeline SR Kandigai	800	-	-	-	2.00	-	-	-	-	-	-	-	-	2.00	Annual	₹ 6.25
9		Street Light Sponsor to Pethikuppam Panchayat 100W LED Light 15 Nos	500	-	-	-	-	-	-	0.35	-	-	-	-	-	0.35	Annual	
10		Periya Obulapuram village Public toilet Repair Work	700	-	-	3.54	-	-	2.36	-	-	-	-	-	-	5.90	Annual	
11	PM Care Fund	Flag Day Fund (Joint Director DISH-20000) (Thasildhar +Subcollector - 50000)		-	-	-	-	-	-	-	-	0.50	0.20	-	-	0.70	Annual	₹ 0.70
13	Disaster Management	Provisions Provided to Dhasildhar Office During Fengal Cyclone Time	500	-	-	-	-	-	-	-	-	0.21	-	-	-	0.21	Annual	₹ 0.21
14	Training to Promote Rural Sports, nationally recognized sports	Elavur Kabadi	15	-	-	0.30	-	-	-	-	-	-	-	-	-	0.30	Annual	₹ 3.85
15		Periya Obulapuram Cricket Tournament	15	-	-	-	0.40	-	-	-	-	-	-	-	-	0.40	Annual	
16		SR Kandigai Cricket Tournament	15	-	-	-	0.35	-	-	-	-	-	-	-	-	0.35	Annual	
17		Dhasildharmedu Cricket Tournament	15	-	-	-	0.30	-	-	-	-	-	-	-	-	0.30	Annual	
18		Elavur Cricket Tournament	15	-	-	-	0.40	-	-	-	-	-	-	-	-	0.40	Annual	
19		Pencak Silat Tournamnet	1	-	-	-	-	0.15	-	-	-	-	-	-	-	0.15	Annual	
20		Food Supply to Madharpakkam Govt School (Sports Zonal Competition District Level) 200 Parcel	200	-	-	-	-	-	0.09	-	-	-	-	-	-	0.09	Annual	
21		Food Supply to Maharaja School (Yoga Competition) 250 Parcel	250	-	-	-	-	-	0.12	-	-	-	-	-	-	0.12	Annual	
22		Food Supply to Football Tournament Gummidipoondi Camp 500 Parcel (13.09.2024 & 14.09.2024)	500	-	-	-	-	-	0.24	-	-	-	-	-	-	0.24	Annual	
23		S R Kandigai Cricket Tournament	15	-	-	-	-	-	-	0.30	-	-	-	-	-	0.30	Annual	
24		Kayalarmedu Pongal Sports	200	-	-	-	-	-	-	-	-	-	0.30	-	-	0.30		
25		Periya Obulapuram pongal sports	350	-	-	-	-	-	-	-	-	-	0.40	-	-	0.40		
26		Kayalarmedu cricket Kit	12	-	-	-	0.50	-	-	-	-	-	-	-	-	0.50	Annual	
27	Eradicating hunger & poverty	Annadhanam (From 21.08.2023)	58579	2.07	1.89	2.06	2.19	1.73	1.58	1.54	1.53	1.35	1.40	1.40	1.26	20.03	Monthly	49.95
28		Periya Obulapuram Annadhanam (From 21.02.2024)	31136	1.85	1.81	1.82	1.78	1.61	1.43	1.48	1.72	1.35	1.40	1.40	1.26	18.91	Monthly	
29		Annadhanam III (Pethikuppam) 02.10.2024	2962	-	-	-	-	-	-	0.64	0.75	0.79	0.79	0.71	0.66	4.33	Monthly	
30		LPG Gas Amount for Annadhanam		0.70	0.62	0.44	0.54	0.59	0.59	0.50	0.20	0.55	0.60	0.55	0.42	6.31	Monthly	
31		Sweet Distribution to Annadhanam Centres(02.10.2024, 16.10.2024&17.10.2024)	600	-	-	-	-	-	-	0.21	-	-	-	-	-	0.21	Annual	
32		Food supply to Thasildar Office	350	0.16	-	-	-	-	-	-	-	-	-	-	-	0.16	Annual	
Total				5.93	5.21	9.05	12.29	4.96	8.48	8.33	14.77	8.03	7.16	6.13	5.68	96.01		96.01

Form – V (Environmental Statement)

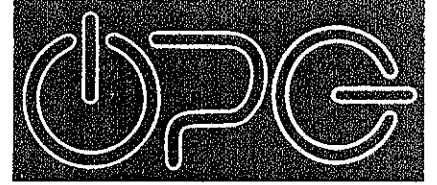
FY 2023-24

RT132368749IN IVR:8284132368749
RL GUMMIDIPUNDI SD <601201>
Counter No:1,27/09/2024,12:11
To:MEMBER SECRETARY,,
PIN:600032, Guindy Industrial Estate S.O
From:DPG ,PERIYA OBULAPURAM
Wt:100gms,REG-17.0
Amt:49.56,Tax:7.56,Amt.Paid:50.00(Cash)
<Track on www.indiapost.gov.in>
<Dial 18002666868> <Wear Masks, Stay Safe>



RT132368868IN IVR:8284132368868
RL GUMMIDIPUNDI SD <601201>
Counter No:1,27/09/2024,12:11
To:THE JOINT CHIEF ,,
PIN:600106, Arumbakkam S.O
From:DPG ,PERIYA OBULAPURAM
Wt:100gms,REG-17.0
Amt:49.56,Tax:7.56,Amt.Paid:50.00(Cash)
<Track on www.indiapost.gov.in>
<Dial 18002666868> <Wear Masks, Stay Safe>





OPG POWER GENERATION PVT. LTD.
CIN : U40109TN2005PTC055442

OPGPG: PCB/2022-23/Form-V/375

18th September 2024

The Member Secretary

Tamil Nadu Pollution Control Board
76, Mount Salai,
Guindy,
Chennai 600 032.

Dear Sir,

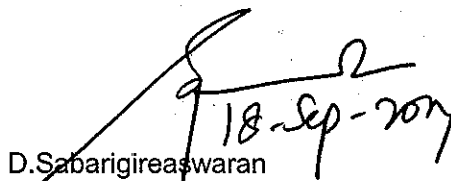
Sub: Environmental Statement for the financial year ending 31st March 2024, for M/s OPG Power Generation Private Limited, OPG Nagar, Madharpakkam Road, Gummidipoondi.

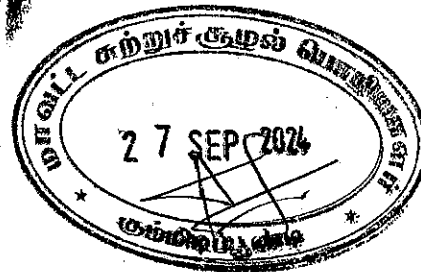
We are herewith submitting the Annual Environmental Statement in Form V prescribed under Rule 14 of the Environment (Protection) Rules 1986, for OPG Power Generation Private Limited for the financial year ending 31st March 2024.

Thanking you

Yours faithfully,

For OPG POWER GENERATION PRIVATE LIMITED


D. Sabarigireaswaran
Director



Copy to:

1. The Joint Chief Environmental Engineer (M), TNPCB – Chennai Zone.
2. The District Environmental Engineer, TNPCB – Gummidipoondi.

Reg. Off.: OPG Nagar, Periya Obulapuram Village, Nagaraja Kandigai,
Madharapakkam Road, Gummidipoondi, Thiruvallur, TamilNadu, India-601201.

E-mail : admin@opgpowers.com

Website : www.opgpowers.com

OPGPG: PCB/2022-23/Form-V/375

18th September 2024

The Member Secretary

Tamil Nadu Pollution Control Board
76, Mount Salai,
Guindy,
Chennai 600 032.

Dear Sir,

Sub: Environmental Statement for the financial year ending 31st March 2024, for M/s OPG Power Generation Private Limited, OPG Nagar, Madharpakkam Road, Gummidipoondi.

We are herewith submitting the Annual Environmental Statement in Form V prescribed under Rule 14 of the Environment (Protection) Rules 1986, for OPG Power Generation Private Limited for the financial year ending 31st March 2024.

Thanking you

Yours faithfully,
For **OPG POWER GENERATION PRIVATE LIMITED**

D.Sabarigireaswaran
Director

Copy to:

1. The Joint Chief Environmental Engineer (M), TNPCB – Chennai Zone.
2. The District Environmental Engineer, TNPCB – Gummidipoondi.

FORM V

(Rule 14 of The Environment Protection 1986)

**ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR
ENDING on 31ST MARCH 2024****PART A**

(i)	Name and address of the owner/occupier of the industry, operation or process	Mr.D. Sabarigireaswaran, Director, OPG Power Generation Private Limited, Email : sabari@opgpower.com, Mobile : +918754566644
(ii)	Industry Category	1048. Thermal Power Plant Red Large
(iii)	Production capacity – Units	2x77, 1x80 & 1x180 MW
(iv)	Year of Establishment	Unit 1 (77 MW) – 2010 Unit 2 (77 MW) – 2012 Unit 3 (80 MW) – 2013 Unit 4 (180 MW) – 2015
(v)	Date of last Environmental statement submitted	17 th September 2023

PART B

Water and Raw Material Consumption

(1) Water consumption m³/d

Process	514
Cooling	0*
Domestic	53.82

*All our units are installed with Air Cooled Condenser and hence there will not be any water consumption for cooling water tower purpose.

Sl.No	Name of the Products	Process water consumption per unit of product output	
		During the previous financial year	During the current financial year
	(1)	(2)	(3)
1	Electricity	0.110 litre/kwh - Unit 1 0.074 litre/kwh - Unit 2 0.130 litre/kwh - Unit 3 0.043 litre/kwh - Unit 4	0.052 litre/kwh - Unit 1 0.045 litre/kwh - Unit 2 0.064 litre/kwh - Unit 3 0.037 litre/kwh - Unit 4

(2) Raw Material Consumption

Sl.No	Name of Raw Materials	Name of Products	Consumption of raw material per unit of product output	
			During the previous financial year	During the current financial year
1	Blended Coal	Electricity	0.90 Kg/kwh - Unit 1 0.94 Kg/kwh - Unit 2 0.65 Kg/kwh - Unit 3 0.84 Kg/kwh - Unit 4	0.785 Kg/kwh - Unit 1 0.787 Kg/kwh - Unit 2 0.777 Kg/kwh - Unit 3 0.721 Kg/kwh - Unit 4

*Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name of the raw materials used.

PART C

POLLUTION DISCHARGED TO ENVIRONMENT/UNIT OF OUTPUT:

(Parameters as specified in the consent issued)

Pollutants	Quality of pollutants discharged (mass/day)	Concentrations of pollutants discharges (mass/volume)	Percentage of variation from prescribed standards with reason
(1.a) Water (Industrial)	Plant is operating and maintaining the Effluent treatment plants followed by Reverse Osmosis & solar evaporation pan and all treated effluent is being utilized in process again.		-
(1.b) Water (Domestic)	0.133 kg/day	pH 7.35 TSS 25.33 mg/l BOD 6.44 mg/l	Zero Percentage variation
(a) Air	SPM 0.7 MT/day SO ₂ 5.1 MT/day NO _x 2.9 MT/day	SPM 33.21 mg/Nm ³ SO ₂ 241.25 mg/Nm ³ NO _x 137.88 mg/Nm ³	Zero Percentage variation

PART D

HAZARDOUS WASTES:

(As specified under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016)

Hazardous Wastes	Authorized Quantity/Annum as per Hazardous waste Authorization	Total Quantity disposed in MT	
		During the previous financial year	During the Current financial year
(a) From Process			
Used Oil (5.1) in MT	6.0	0.80	1.60
Wastes / Residues Containing Oil (5.2) in MT	1.0	0.92	0.99
(b) From pollution control facilities		Nil	Nil

PART E**SOLID WASTES:**

Solid Wastes	Total Quantity in MT	
	During the previous financial year	During the Current financial year
(a) From Process (MT)	Dry Bottom Ash 15,948	Dry Bottom Ash 30,486
(b) From pollution control facilities (MT)	Dry Fly Ash 63,792	Dry Fly Ash 1,21,942
(c) (1) Quantity recycled or re-utilized with in the unit	Nil	Nil
(2) Sold (MT)	Dry Fly Ash 63,792	Dry Fly Ash 1,21,942
	Dry Bottom Ash 15,948	Dry Bottom Ash 30,486
(3) Disposed (MT)	Nil	Nil

PART F

Please specify the characteristics (in terms of consumption of quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Sl.No	Wastes	Category of Wastes	Qty. of Wastes generated during the year 2023-24	Final disposal Facility
1	Hazardous Wastes	Used Oil (5.1) in KL	4.40	Sending to PCB Authorised Vendor
		Wastes or Residues containing Oil (5.2) in MT	1.055	
2	Solid Wastes	Dry Fly Ash in MT	1,21,942	100 %Ash utilisation achieved. Dry Fly Ash and Dry Bottom Ash are being sent to Cement and Brick industries.
		Dry Bottom Ash in MT	30,486	

PART G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

- a) Process waste water is treated in Reverse Osmosis based Effluent Treatment plants and it is recycled/reused for process water and dust suppression requirement in Coal Handling Plant and fugitive emission control.
- b) Effective operation of ETP with “**Zero Liquid Discharge system** “. Effluent Reject water which meets surface water standard (as per IS: 2296) is being utilised for fugitive emission control. Hence Fresh water consumption will get reduced
- c) A sewage treatment plant is working satisfactory and treated water is totally used for green belt development.
- d) High efficiency Electro Static precipitators have been installed in all four units and working satisfactory.
- e) Adequate water sprinklers and Bag filters have been provided in all Coal and Ash handling points and transfer areas to mitigate fugitive dust emission.
- f) Continuous stack Emissions analysers in all boiler stacks and Ambient Air Qualities from 2 Ambient Air Quality monitoring stations (Installed at Upward and down ward wind direction) are being live streamed to both TNPCB and CPCB servers.
- g) Continuous effluent monitoring station for the recommended effluent parameters (Flow Totalizers and web camera for the Solar Evaporation Pans) is connected to both TNPCB & CPCB servers.
- h) Annual Stack emission and Ambient Air quality survey was carried out by TNPCB. No any deviation on monitored parameters reported. - Report Attached as Annexure - I
- i) Rainwater harvesting system by recharge pits - infiltration wells and open storage ponds were established based on independent hydrological study to enrich ground water table and being sustained.
- j) Fans have been replaced on existing ACCs with FRP materials to increase the efficiency of condensation leads reduction water and energy foot print.
- k) As a part of pre monsoon Activities, 19 Nos of Rain water harvesting pits and 26 no's of recharge pits in storm water trenches and runoff areas are cleaned and refilled with charge material. Additionally, 2 no's of Recharge pits were constructed in runoff areas.

Pre monsoon Activities – Cleaning of Recharge pits



New Recharge pits Constructed – 2 Nos



- l) Contour trenches and gully block arrangements were implemented in the runoff rain water and it is being cleaned at regular interval to ensure the recharge efficiently.



- m) In continuation with Independent Hydrogeological study performed by Former Regional director – CGWA & World Bank consultant on 2015 and Technical Audit on recommendations to improve Ground water development on 2017 and on 20th and 21st march of 2023 performed audit for further recommendations.
- n) Roof Top harvesting system has been implemented in raw water storage tanks to conserve and store rain water.



- o) Maintaining / increasing Bio diversity by planting various local flora species. 102 faunas (Terrestrial 23, Aquatic -46 & Aerial - 33) spotted in this year.
- p) Piezo metric wells constructed at 3 locations to monitor water tables (Shallow and deep Aquifer) and its quality to ensure that the ground water levels and quality is sustaining.



- q) Acoustic enclosures have been provided for all noise generating equipment's to attenuate noise levels and Periodic Noise survey carried out.
- r) 100 % Ash utilisation by Cement and Ash Brick industries is being under progress.
- s) The Hazardous and Other wastes are being stored in an Isolated Designated earmarked separate shed with Secondary containment provisions.

- t) Instead of conventional lights, LED lights are installed in Roads & Open Spaces which will significantly reduce the power consumption.



- u) Increased usage of Biomass for Co-firing.
 v) Additionally, provided Dust suppression line up to 1500 metre in Conveyors and Bottom Ash handling area to further control of fugitive emissions.
 w) Newly procured and taken into service 4 Nos of Mobile Road sweeper machines into to further cleaning of fugitive dust.



PART H

Additional measures / investment proposal for environmental protection, abatement of pollution, prevention of pollution.

- a) In Unit I & II, De NO_x system has been implemented to meet NO_x Emission as per new emission standards notification by MoEF & CC dated 07.12.2015.
 b) For Unit III – De NO_x system installation proposed to complete by Nov 2024 (Approx. cost will be Rs 14 Cr)

- c) Green belt developed in more than 33% of the total area and we have planned to put additional 1028 plantation. This is a continual improvement process. Green belt increased from 33.4 % to 35.01 %.
- d) Installed Electro Magnetic Flow meters at the Inlet to Clarifier, inlet of RO 1st Stage, Common RO Permeate for all 3 stages and Outlet of RO 3rd Reject, Inlet to Solar Evaporation Pan's and same is being connected to WQW, TNPCB, Chennai for continuous monitoring.
- e) Installed Electro Magnetic Flow meters at the Inlet and Outlet of Sewage Treatment Plant.
- f) Replacement work under progress as the damaged portion (**Due to Michaung cyclone Dt 05.12.2023**) of provided Wind breaker shade net at Buffer Storage Yard (Approx. Cost will be Rs 4.90 Lakh)
- g) Proposed to provide structural cladding sheet at south side of Buffer Storage Yard (Approx. cost will be Rs 9.00 Lakh)
- h) Proposed to replace damaged portion of Roof sheet at Coal storage shed # 2 (**Due to Michaung Cyclone Dt 05.12.2023**) - Approx. cost will be Rs 13.42 Lakh.
- i) Proposed to Procure and Install Mobile Fog Canon system at Impermanent Coal storage yard – Approx. cost will be Rs 9.44 Lakh.
- j) Proposed to replace existing silencer installed in unit 123 to reduce noise levels up to 40-45 % - Approx. cost will be Rs.2.06 Lakh.
- k) Proposed to construct 05 Nos of Rain water recharge pits and 01 no of Rain Water harvesting in runoff area additionally – Approx. cost will be Rs.11.91 Lakh
- l) Work in progress of strengthen the Unit 1 Electro static precipitator by replacing controller shaft insulators and Electrodes. Approx. cost will be Rs 52.00 Lakh.
- m) Work in progress to provide 06 Nos of sprinklers additionally at Belt conveyor # 5 to further control of Fugitive emission – Approx. cost will be Rs. 29,205.



- n) Work in progress to install Renewable energy plant (solar power) with the capacity of 2.2 MW in vacant land of the plant premises. Generated power will be used as Auxiliary power for existing units.
- o) Work in progress to install pelletizing plant for Bio Mass firing purpose. Approx. cost will be Rs 1.06 Cr.



PART I

Any other particulars for improving the quality of environment

- a) ISO 14001:2015 Environment Management System and ISO 45001:2018 Occupational Health & Safety Accreditation System certificates were obtained and ensured the systems are maintaining well in both Environment and Health and safety norms.

ISO 45001:2018 & ISO 14001 : 2015 Environment and Health & safety Management System



- b) In line with the recognition of Environment Management System We have been awarded in two distinct categories- “Best Efficient Fuel Utilisation within Private Sector” in the Southern Region and “Best Practices and New Initiatives” in IPP Coal Plants below 250 MW category by CEE National Energy Organisation.



- c) Truck with water sprinkler arrangements (using ETP Reject water which meets Inland surface water standard) has been engaged to control fugitive emission due to vehicle movement inside and outside of the plant.



- d) Environment related celebrations like Environment Day, World water Day, World Bio Diversity day etc are being conducted towards to make awareness on “**Not to use one-time usage plastic**” and **Green Belt development, Water conservations etc among our Employees and contractors.**

World Biodiversity Day

Date : 22.05.2023

Venue & Time : Nearby ETP

Theme of Bio Diversity Day : From Agreement to Action: Build back Biodiversity.

Agenda for the Celebrations:

- Banner Opening by Environment Team
- Pledge Taken
- Mass Saplings plantations – 32 Nos



World Environment Day

Date : 05.06.2023

Venue & Time : Safe Assembling Point

Theme of Environment Day : Solutions to Plastic Pollution Under the Campaign.

Agenda for the Celebrations:

- Banner Opening by Environment Team
- Welcome speech by Environment Team
- World Water Day Awareness Speech by HODs
- Pledge Taken
- Mass Saplings plantations – 25 Nos



World Ozone Day

Date : 19.09.2023
Venue & Time : Canteen

Theme of Environment Day : Save Ozone Save Earth.

Agenda for the Celebrations:

- Banner Opening by Environment Team
- Welcome speech by Environment Team
- Pledge Taken
- Mass Saplings plantations – 58 Nos
- Sweets Distribution



Dr. APJ Abdul Kalam Anniversary Day

Date : 15.10.2023
Venue & Time : Unit 02 ACC Area

Agenda for the Celebrations:

- Banner Opening by Environment Team
- Pledge Taken
- Mass Saplings plantations – 48 Nos
- Sweets Distribution



National Pollution Control Day

Date : 02.12.2023
Venue & Time : Unit 03 ESP

Agenda for the Celebrations:

- Banner Opening by Environment Team
- Welcome speech by Environment Team
- Pledge Taken



World Water Day

Date : 22.03.2024

Venue & Time: Safe Assembling point @ 15.30 Hrs.

- Team building games & Drawing competitions among employees and Contractors towards water savings activities
- Chief Guest – **Mr. Vasudevan –JCEE(M) – TNPCB**

Agenda for the Celebrations :

- Banner Opening by Environment Team
- Tamizh thaai Vaazhthu
- Welcome speech by Environment Team
- World Water Day Awareness Speech by Chief guest & Plant Higher Officials
- Pledge Taken
- National Anthem
- Memento and sweet distributions



- e) To develop and sustain Bio diversity in this area, Existing Green belt is being well maintained.



TNPCB – AAQ, Stack & Noise Level Monitoring Survey

FY 2024-25



TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Ambattur.

Ambient Air Quality Survey - Report of Analysis

ROA No. 59/AAQS/2024 - 25

Dated: 10.10.2024

1. Name of the Industry : **M/s. OPG Power Generation Ltd**
2. Address of the Industry : Periya Obulapuram Village
Gummidipoondi
Thiruvallur District
Pin code 601201
3. Date of survey : 07.10.2024 Consent No: 2408257181653
4. Duration of Survey : Eight hours Dated: 10.03.2024
5. Category : RL Validity Upto : March 31st 2029
6. Land use classification. : Industrial

Ambient Temperature (°C)	Min	Max	Relative Humidity (%)	Min	Max
	29.0	32.0		48	59
Weather Condition	Clear Sky		Rain Fall (mm)	Nil	
Predominant Wind Condition	South West To North East		Mean Wind Speed (Km/hr)	20 Km/Hr	

Ambient Air Quality Survey Results

Sl. No	Location	*Direction	Distance (m)*	Height from GL (m)	Pollutants Concentrations (µg/m ³)			
					PM ₁₀	PM _{2.5}	SO ₂	NO ₂
1	On Top of Scaffolding near main security gate	N	200	2.0	60	--	13.6	15.6
2	On Top of Scaffolding near OPG staff quarters	NE	1500	2.0	48.5	29.7	12.2	14.2
3	On Top of Scaffolding near CHP Office	S	150	2.0	66.4	--	14.4	16.6
4	On Top of Scaffolding near Thiru suresh house kandigai	W	150	2.0	68.9	--	15.1	17.1
5	On Top of Scaffolding near CFK/MTC gate Kandigai	NW	300	2.0	64.2	36.1	14.2	16.4

Note:- * With respect to major emission sources.

The analytical results are restricted to the sampling period of 8 Hrs/24Hrs.

Test performed	Test Method
PM ₁₀	IS 5182: (Part 23) - 2006
SO ₂	Modified West-Graeke /IS 5182: (Part2)-2001 RA:2012
NO ₂	Jacobs-Hochheise /IS 5182: (Part6)-2006 RA:2012

Handwritten signature
Deputy Chief Scientific Officer,
DEL, Ambattur



TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Ambattur.

Stack Monitoring Survey - Report of Analysis

ROA No. 59/AAQS/2024 - 25

Dated: 10.10.2024

1. Name of the Industry : **M/s. OPG Power Generation Ltd**

2. Address of the Industry : Periya Obulapuram Village

Gummidipoondi

Thiruvallur District

Pin code 601201

3. Date of survey : 07.10.2024

4. Type of the Industry : Industrial

Stack Monitoring Survey Results

Sl.No	Stack attached to	Stack Temp in K	Velocity in (M/sec)	Discharge Rate in (Nm ³ /hr)	Pollutants (mg/Nm ³)		
					PM	SO ₂	NO ₂
1	BOILER - 1 - 77MW/320 TPH Fuel:- coal APC Measure:- ESP	517	22.4	278886	31.9	186.6	88.2
2	BOILER- 3 - 80MW/320 TPH Fuel:- coal APC Measure:- ESP	516	22.7	283169	32.2	218.6	187.6
3	BOILER - 4 - 180MW/563 TPH Fuel:- coal APC Measure:- ESP	524	23.2	427482	33.8	288	141.3
4	DG Set - 500KVA Fuel:- HSD APC Measure:- acoustics	428	16.5	1796	27.9	32	67.2
5	DG Set - 500KVA Fuel:- HSD APC Measure:- acoustics	423	16.4	1939	28.8	37.3	67.1

Test performed	Test Method
PM ₁₀	IS 5182: (Part 23) - 2006
SO ₂	Modified West-Graeke /IS 5182: (Part2)-2001 RA:2012
NO ₂	Jacobs-Hochheise /IS 5182: (Part6)-2006 RA:2012

[Signature]
Deputy Chief Scientific Officer,
DEL, Ambattur



TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Ambattur.

Ambient/Source Noise Level Survey-Report of Analysis

ROA No. 59/AAQS/2024 - 25

Dated: 10.10.2024

1	Name of the Industry	M/s. OPG Power Generation Ltd				
2	Address of the Industry	Periya Obulapuram Village Gummidipoondi Thiruvallur District Pin code 601201				
3	Date of survey	07.10.2024				
4	Category	RL	Land Use Classification		Industrial	
Type of survey		Ambient/Source		Time of Survey	Day	
Meteorological Conditions		Calm				

Logging Parameters

Instrument Used	CESVA	Serial No.	T243104
Logging Interval	30 Minutes in each point	Measuring Range	50-110 dB(A)
Weighting	"A" Peak Weighting	"C" Time Weighting	Slow
Sound Incidence	RANDOM	Time in Hrs.	14.00-16.45 Hrs

S.no	Location	Duration (min)	Distance (m)	Direction	Sound Level – dB(A)		
					Leq	LMin	LMax
1	near main security gate	30	200	N	68.9	65.3	83.4
2	near OPG staff quarters	30	1500	NE	70.3	68.4	84.6
3	near Thiru suresh house kandigai	30	150	S	69.4	66.2	88.2
4	near CHP office	30	150	W	66.4	70.6	83.7
5	near CFK/MTC gate Kandigai	30	300	NW	62.2	60.8	79.6

Leq Value is the average energy for the measured period

Subash
Deputy Chief Scientific Officer,
DEL, Ambattur

**Third Party – AAQ, Stack & Noise Level Monitoring
Survey**

FY 2024-25

TEST REPORT

ULR NO:TC858224000004231F
Report No. : EN24070005

Name of the Client : OPG Power generation Private limited
 Address of the Client : OPG Nagar , Madharpakkam Raod , Periyaobulapuram village, Gummidipondi,601 201
 Sample Name : Ambient Air Quality Sampling From : 24-Jun-2024 07:10 AM
 Sample Description : Ambient Air Quality Sampling To : 25-Jun-2024 07:10 AM
 Sampling Location : On the top of Scaffolding Near OPG Staff Quatters Received Date : 01-Jul-2024
 Sample Submission Type : Collected by Lab Representative Commenced On : 01-Jul-2024
 Sample Condition : Fit for Analysis Completed On : 04-Jul-2024
 Humidity : 56% Report Date : 04-Jul-2024
 Temperature : 34 °C Sampling Plan and Method : IS 5182 Part V & XIV



Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Requirement as per NAAQS Specification
Discipline: Chemical					
Group: Atmospheric Pollution					
1	Sulphur Dioxide as SO ₂	µg/m ³	15.8	IS 5182 (Part 2): 2017	80
2	Nitrogen dioxide as NO ₂	µg/m ³	27.1	IS 5182 (Part 6): 2006	80
3	Particulate Matter (PM ₁₀)	µg/m ³	55.9	IS 5182 (Part 23): 2006	100
4	Particulate Matter (PM _{2.5})	µg/m ³	22.4	GL/EN/SOP/062	60
5	Ozone as O ₃	µg/m ³	BLQ(LOQ : 20)	IS 5182 (Part 9): 1974	100
6	Lead as Pb	µg/m ³	BLQ(LOQ : 0.002)	IS 5182 (Part 22) :2014	1.0
7	Carbon Monoxide as CO	mg/m ³	BLQ(LOQ : 1.14)	IS 5182 (Part 10): 1999	4.0
8	Ammonia as NH ₃	µg/m ³	BLQ(LOQ : 20)	GL/EN/SOP/057	400
9	Benzene (C ₆ H ₆)	µg/m ³	BLQ(LOQ : 4.0)	GL/EN/SOP/08	NA
10	Benzo (a) Pyrene (Particulate Phase)	ng/m ³	BLQ(LOQ : 0.03)	GL/EN-INS/SOP/009	NA
11	Arsenic as As	ng/m ³	BLQ(LOQ : 2.0)	IS 5182 (Part 22): 2014	NA
12	Nickel as Ni	ng/m ³	BLQ(LOQ : 2.0)	IS 5182 (Part 22) : 2014	NA

Note:- BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

The above Sample complies as per NAAQS limit which is provided in the environmental protection Rule 3 (3B) Nov.2009, against the above tested parameter

End of Report


Verified By


Authorized Signature

E. PRITHIVIRAJAN
LAB MANAGER

- * The test results related only to the items tested.
- * The test report shall not be reproduced in full or part without the written approval of Glens.
- * The test items will not be retained for more than 15 days from the date of issue of test report except in the case as required by the applicable regulations.
- * The Laboratory's responsibility under this report is limited to proven wilful negligence and will in no case be more than the invoiced amount.
- * A Satisfactory test report in no way implies that the product tested is approved by NABL.
- * Laboratory is not responsible for the authenticity of the photocopied test reports.

TEST REPORT

Report No. : EN24070004

ULR NO:TC858224000004230F

Name of the Client : OPG Power generation Private limited
Address of the Client : OPG Nagar , Madharpakkam Raod , Periyaobulapuram village, Gummidipondi,601 201
Sample Name : Ambient Air Quality Sampling From : 24-Jun-2024 07:00 AM
Sample Description : Ambient Air Quality Sampling To : 25-Jun-2024 07:00 AM
Sampling Location : On the top of Scaffolding Near Main Gate Received Date : 01-Jul-2024
Sample Submission Type : Collected by Lab Representative Commenced On : 01-Jul-2024
Sample Condition : Fit for Analysis Completed On : 04-Jul-2024
Humidity : 56% Report Date : 04-Jul-2024
Temperature : 34°C Sampling Plan and Method : IS 5182 Part V & XIV



Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Requirement as per NAAQS Specification
Discipline: Chemical					
Group: Atmospheric Pollution					
1	Sulphur Dioxide as SO ₂	µg/m ³	12.4	IS 5182 (Part 2): 2017	80
2	Nitrogen dioxide as NO ₂	µg/m ³	22.9	IS 5182 (Part 6): 2006	80
3	Particulate Matter (PM ₁₀)	µg/m ³	62.5	IS 5182 (Part 23): 2006	100
4	Particulate Matter (PM _{2.5})	µg/m ³	27.3	GL/EN/SOP/062	60
5	Ozone as O ₃	µg/m ³	BLQ(LOQ : 20)	IS 5182 (Part 9): 1974	100
6	Lead as Pb	µg/m ³	BLQ(LOQ : 0.002)	IS 5182 (Part 22) :2014	1.0
7	Carbon Monoxide as CO	mg/m ³	BLQ(LOQ : 1.14)	IS 5182 (Part 10): 1999	4.0
8	Ammonia as NH ₃	µg/m ³	BLQ(LOQ : 20)	GL/EN/SOP/057	400
9	Benzene (C ₆ H ₆)	µg/m ³	BLQ(LOQ : 4.0)	GL/EN/SOP/08	NA
10	Benzo (a) Pyrene (Particulate Phase)	ng/m ³	BLQ(LOQ : 0.03)	GL/EN-INS/SOP/009	NA
11	Arsenic as As	ng/m ³	BLQ(LOQ : 2.0)	IS 5182 (Part 22): 2014	NA
12	Nickel as Ni	ng/m ³	BLQ(LOQ : 2.0)	IS 5182 (Part 22) : 2014	NA

Note:- BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

The above Sample complies as per NAAQS limit which is provided in the environmental protection Rule 3 (3B) Nov.2009, against the above tested parameter

End of Report

Verified By

Authorized Signature

E. PRITHIVIRAJAN
LAB MANAGER

Terms and Conditions:

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- * A Satisfactory test report in no way implies that the product tested is approved by NABL.
- * Laboratory is not responsible for the authenticity of the photocopied test reports.

TEST REPORT

Report No. : EN24070003

ULR NO:TC858224000004229F

Name of the Client : OPG Power generation Private limited

Address of the Client : OPG Nagar , Madharpakkam Raod , Periyaobulapuram village, Gummidipondi,601 201

Sample Name : Ambient Air Quality Sampling From : 24-Jun-2024 06:50 AM

Sample Description : Ambient Air Quality Sampling To : 25-Jun-2024 06:50 AM

Sampling Location : On the top of Scaffolding Near CFK/MTXC Gate Kandigai Received Date : 01-Jul-2024

Sample Submission Type : Collected by Lab Representative Commenced On : 01-Jul-2024

Sample Condition : Damaged Completed On : 04-Jul-2024

Humidity : 56% Report Date : 04-Jul-2024

Temperature : 34°C Sampling Plan and Method : IS 5182 Part V & XIV



Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Requirement as per NAAQS Specification
Discipline: Chemical					
Group: Atmospheric Pollution					
1	Sulphur Dioxide as SO ₂	µg/m ³	13.8	IS 5182 (Part 2): 2017	80
2	Nitrogen dioxide as NO ₂	µg/m ³	24.8	IS 5182 (Part 6): 2006	80
3	Particulate Matter (PM ₁₀)	µg/m ³	64.2	IS 5182 (Part 23): 2006	100
4	Particulate Matter (PM _{2.5})	µg/m ³	29.8	GL/EN/SOP/062	60
5	Ozone as O ₃	µg/m ³	BLQ(LOQ : 20)	IS 5182 (Part 9): 1974	100
6	Lead as Pb	µg/m ³	BLQ(LOQ : 0.002)	IS 5182 (Part 22) :2014	1.0
7	Carbon Monoxide as CO	mg/m ³	BLQ(LOQ : 1.14)	IS 5182 (Part 10): 1999	4.0
8	Ammonia as NH ₃	µg/m ³	BLQ(LOQ : 20)	GL/EN/SOP/057	400
9	Benzene (C ₆ H ₆)	µg/m ³	BLQ(LOQ : 4.0)	GL/EN/SOP/08	NA
10	Benzo (a) Pyrene (Particulate Phase)	ng/m ³	BLQ(LOQ : 0.03)	GL/EN-INS/SOP/009	NA
11	Arsenic as As	ng/m ³	BLQ(LOQ : 2.0)	IS 5182 (Part 22): 2014	NA
12	Nickel as Ni	ng/m ³	BLQ(LOQ : 2.0)	IS 5182 (Part 22) : 2014	NA

Note:- BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

The above Sample complies as per NAAQS limit which is provided in the environmental protection Rule 3 (3B) Nov.2009, against the above tested parameter

End of Report

Verified By

Authorized Signature

E. PRITHIVIRAJAN
LAB MANAGER

TEST REPORT

ULR NO:TC858224000004228F

Report No. : EN24070002

Name of the Client : OPG Power generation Private limited
Address of the Client : OPG Nagar , Madharpakkam Raod , Periyaobulapuram village, Gummidipondi,601 201
Sample Name : Ambient Air Quality Sampling From : 24-Jun-2024 06:30 AM
Sample Description : Ambient Air Quality Sampling To : 25-Jun-2024 06:30 AM
Sampling Location : On the top of Scaffolding Near Mr.suresh kumar House Kandigai Received Date : 01-Jul-2024
Sample Submission Type : Collected by Lab Representative Commenced On : 01-Jul-2024
Sample Condition : Fit for Analysis Completed On : 04-Jul-2024
Humidity : 56% Report Date : 04-Jul-2024
Temperature : 34 °C Sampling Plan and Method : IS 5182 Part V & XIV



Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Requirement as per NAAQS Specification
Discipline: Chemical					
Group: Atmospheric Pollution					
1	Sulphur Dioxide as SO ₂	µg/m ³	15.5	IS 5182 (Part 2): 2017	80
2	Nitrogen dioxide as NO ₂	µg/m ³	25.2	IS 5182 (Part 6): 2006	80
3	Particulate Matter (PM ₁₀)	µg/m ³	53.1	IS 5182 (Part 23): 2006	100
4	Particulate Matter (PM _{2.5})	µg/m ³	26.2	GL/EN/SOP/062	60
5	Ozone as O ₃	µg/m ³	BLQ(LOQ : 20)	IS 5182 (Part 9): 1974	100
6	Lead as Pb	µg/m ³	BLQ(LOQ : 0.002)	IS 5182 (Part 22) :2014	1.0
7	Carbon Monoxide as CO	mg/m ³	BLQ(LOQ : 1.14)	IS 5182 (Part 10): 1999	4.0
8	Ammonia as NH ₃	µg/m ³	BLQ(LOQ : 20)	GL/EN/SOP/057	400
9	Benzene (C ₆ H ₆)	µg/m ³	BLQ(LOQ : 4.0)	GL/EN/SOP/08	NA
10	Benzo (a) Pyrene (Particulate Phase)	ng/m ³	BLQ(LOQ : 0.03)	GL/EN-INS/SOP/009	NA
11	Arsenic as As	ng/m ³	BLQ(LOQ : 2.0)	IS 5182 (Part 22): 2014	NA
12	Nickel as Ni	ng/m ³	BLQ(LOQ : 2.0)	IS 5182 (Part 22) : 2014	NA

Note:- BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

The above Sample complies as per NAAQS limit which is provided in the environmental protection Rule 3 (3B) Nov.2009, against the above tested parameter

Verified By 

End of Report


Authorized Signature

E. PRITHIVIRAJAN
LAB MANAGER

TEST REPORT

Report No. : EN24070001

ULR NO:TC858224000004227F

Name of the Client : OPG Power generation Private limited

Address of the Client : OPG Nagar , Madharpakkam Raod , Periyaobulapuram village, Gummidipondi,601 201

Sample Name : Ambient Air Quality Sampling From : 24-Jun-2024 06:40 AM

Sample Description : Ambient Air Quality Sampling To : 25-Jun-2024 06:40 AM

Sampling Location : On the top of Scaffolding Near CHP Office Received Date : 01-Jul-2024

Sample Submission Type : Collected by Lab Representative Commenced On : 01-Jul-2024

Sample Condition : Fit for Analysis Completed On : 04-Jul-2024

Humidity : 56% Report Date : 04-Jul-2024

Temperature : 34°C Sampling Plan and Method : IS 5182 Part V & XIV



Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Requirement as per NAAQS Specification
Discipline: Chemical					
Group: Atmospheric Pollution					
1	Sulphur Dioxide as SO ₂	µg/m ³	12.1	IS 5182 (Part 2): 2017	80
2	Nitrogen dioxide as NO ₂	µg/m ³	19.6	IS 5182 (Part 6): 2006	80
3	Particulate Matter (PM ₁₀)	µg/m ³	59.4	IS 5182 (Part 23): 2006	100
4	Particulate Matter (PM _{2.5})	µg/m ³	24.5	GL/EN/SOP/062	60
5	Ozone as O ₃	µg/m ³	BLQ(LOQ : 20)	IS 5182 (Part 9): 1974	100
6	Lead as Pb	µg/m ³	BLQ(LOQ : 0.002)	IS 5182 (Part 22) :2014	1.0
7	Carbon Monoxide as CO	mg/m ³	BLQ(LOQ : 1.14)	IS 5182 (Part 10): 1999	4.0
8	Ammonia as NH ₃	µg/m ³	BLQ(LOQ : 20)	GL/EN/SOP/057	400
9	Benzene (C ₆ H ₆)	µg/m ³	BLQ(LOQ : 4.0)	GL/EN/SOP/08	NA
10	Benzo (a) Pyrene (Particulate Phase)	ng/m ³	BLQ(LOQ : 0.03)	GL/EN-INS/SOP/009	NA
11	Arsenic as As	ng/m ³	BLQ(LOQ : 2.0)	IS 5182 (Part 22): 2014	NA
12	Nickel as Ni	ng/m ³	BLQ(LOQ : 2.0)	IS 5182 (Part 22) : 2014	NA

Note:- BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

Remarks

The above Sample complies as per NAAQS limit which is provided in the environmental protection Rule 3 (3B) Nov.2009, against the above tested parameter

Verified By

End of Report

Authorized Signature

E. PRITHIVIRAJAN
LAB MANAGER

TEST REPORT

ULR NO:TC858224000004235F

Report No. : EN24070009

Name of the Client : OPG Power generation Private limited
Address of the Client : OPG Nagar, Madharpakkam Raod, Periyaobulapuram village, Gummidipondi, 601 201
Sample Name : DG Stack Emission
Sample Description : Stack Emission
Sampling Location : DG Set -01 500 KVA
Sample Submission Type : Collected by Lab Representative
Sample Condition : Fit for Analysis
Sampling Plan and Method : GL/EN/SOP/111

Sampling Date : 24-Jun-2024
Received Date : 01-Jul-2024
Commenced On : 01-Jul-2024
Completed On : 04-Jul-2024
Report Date : 04-Jul-2024



Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Limit as per CPCB Standard
Discipline: Chemical					
Group: Atmospheric Pollution					
1	Carbon Dioxide as CO ₂	%	7.0	GL/EN/SOP/149	NA
2	Gaseous Discharge	Nm ³ /hr	1576.0	IS 11255 (Part 3) : 2018	NA
3	Oxygen as O ₂	%	13.9	GL/EN/SOP/149	NA
4	Stack Temperature	K	390.0	IS 11255 (Part 3) : 2018	NA
5	Velocity	m/sec	14.40	EPA method 1-3	NA
6	Sulphur Dioxide as SO ₂	mg/Nm ³	21.600	EPA Method 6	NA
7	Particulate Matter	g/kw-hr	0.10	GL/ EN/SOP/113	≤ 0.2
8	Oxides of Nitrogen as NO ₂	g/kw-hr	1.56	GL/EN/SOP/149	≤ 4.0
9	Carbon Monoxide as CO	g/kw-hr	1.37	GL/EN/SOP/149	≤ 3.5
10	Mercury as Hg	mg/m ³	BLQ(LOQ : 0.03)	EPA method- 29	NA

Note:- BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

End of Report

Verified By

Authorized Signature

E. PRITHIVIRAJAN
LAB MANAGER

TEST REPORT

ULR NO:TC858224000004234F

Report No. : EN24070008

Name of the Client : OPG Power generation Private limited
Address of the Client : OPG Nagar, Madharpakkam Raod, Periyaobulapuram village, Gummidipondi, 601 201
Sample Name : DG Stack Emission Sampling Date : 24-Jun-2024
Sample Description : Stack Emission Received Date : 01-Jul-2024
Sampling Location : DG Set -02 500 KVA Commenced On : 01-Jul-2024
Sample Submission Type : Collected by Lab Representative Completed On : 04-Jul-2024
Sample Condition : Fit for Analysis Report Date : 04-Jul-2024
Sampling Plan and Method : GL/EN/SOP/111



Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Limit as per CPCB Standard
Discipline: Chemical					
Group: Atmospheric Pollution					
1	Carbon Dioxide as CO ₂	%	6.3	GL/EN/SOP/149	NA
2	Gaseous Discharge	Nm ³ /hr	1214.0	IS 11255 (Part 3) : 2018	NA
3	Oxygen as O ₂	%	13.8	GL/EN/SOP/149	NA
4	Stack Temperature	K	390.0	IS 11255 (Part 3) : 2018	NA
5	Velocity	m/sec	14.10	EPA method 1-3	NA
6	Sulphur Dioxide as SO ₂	mg/Nm ³	16.200	EPA Method 6	NA
7	Particulate Matter	g/kw-hr	0.07	GL/ EN/SOP/113	≤ 0.2
8	Oxides of Nitrogen as NO ₂	g/kw-hr	1.19	GL/EN/SOP/149	≤ 4.0
9	Carbon Monoxide as CO	g/kw-hr	1.00	GL/EN/SOP/149	≤ 3.5
10	Mercury as Hg	mg/m ³	BLQ(LOQ : 0.03)	EPA method- 29	NA

Note:- BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

End of Report

Verified By

Authorized Signature

E. PRITHIVIRAJAN
LAB MANAGER

TEST REPORT

ULR NO:TC858224000004233F

Report No. : EN24070007

Name of the Client : OPG Power generation Private limited
Address of the Client : OPG Nagar, Madharpakkam Raod, Periyaobulapuram village, Gummidipondi, 601 201
Sample Name : DG Stack Emission
Sample Description : Stack Emission
Sampling Location : DG Set -03 500 KVA
Sample Submission Type : Collected by Lab Representative
Sample Condition : Fit for Analysis
Sampling Plan and Method : GL/EN/SOP/111

Sampling Date : 24-Jun-2024
Received Date : 01-Jul-2024
Commenced On : 01-Jul-2024
Completed On : 04-Jul-2024
Report Date : 04-Jul-2024



Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Limit as per CPCB Standard
Discipline: Chemical					
Group: Atmospheric Pollution					
1	Carbon Dioxide as CO ₂	%	7.1	GL/EN/SOP/149	NA
2	Gaseous Discharge	Nm ³ /hr	1433.0	IS 11255 (Part 3) : 2018	NA
3	Oxygen as O ₂	%	13.9	GL/EN/SOP/149	NA
4	Stack Temperature	K	384.0	IS 11255 (Part 3) : 2018	NA
5	Velocity	m/sec	13.10	EPA method 1-3	NA
6	Sulphur Dioxide as SO ₂	mg/Nm ³	18.900	EPA Method 6	NA
7	Particulate Matter	g/kw-hr	0.09	GL/EN/SOP/113	≤ 0.2
8	Oxides of Nitrogen as NO ₂	g/kw-hr	1.30	GL/EN/SOP/149	≤ 4.0
9	Carbon Monoxide as CO	g/kw-hr	1.23	GL/EN/SOP/149	≤ 3.5
10	Mercury as Hg	mg/m ³	BLQ(LOQ : 0.03)	EPA method- 29	NA

Note:- BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

End of Report

2-2024
Verified By

Authorized Signature

E. PRITHIVIRAJAN
LAB MANAGER

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The Laboratory's responsibility under this report is limited to proven wilful negligence and will in no case be more than the invoiced amount.
A Satisfactory test report in no way implies that the product tested is approved by NABL.
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TEST REPORT

ULR NO:TC858224000004232F

Report No. : EN24070006

Name of the Client : OPG Power generation Private limited
Address of the Client : OPG Nagar , Madharpakkam Raod , Periyaobulapuram village, Gummidipondi,601 201
Sample Name : DG Stack Emission
Sample Description : Stack Emission
Sampling Location : DG Set -04 625 KVA
Sample Submission Type : Collected by Lab Representative
Sample Condition : Fit for Analysis
Sampling Plan and Method : GL/EN/SOP/111

Sampling Date : 24-Jun-2024
Received Date : 01-Jul-2024
Commenced On : 01-Jul-2024
Completed On : 04-Jul-2024
Report Date : 04-Jul-2024



Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Limit as per CPCB Standard
Discipline: Chemical					
Group: Atmospheric Pollution					
1	Carbon Dioxide as CO ₂	%	6.4	GL/EN/SOP/149	NA
2	Gaseous Discharge	Nm ³ /hr	1211.0	IS 11255 (Part 3) : 2018	NA
3	Oxygen as O ₂	%	14.7	GL/EN/SOP/149	NA
4	Stack Temperature	K	369.0	IS 11255 (Part 3) : 2018	NA
5	Velocity	m/sec	13.30	EPA method 1-3	NA
6	Sulphur Dioxide as SO ₂	mg/Nm ³	27.000	EPA Method 6	NA
7	Particulate Matter	g/kw-hr	0.06	GL/ EN/SOP/113	≤ 0.2
8	Oxides of Nitrogen as NO ₂	g/kw-hr	0.89	GL/EN/SOP/149	≤ 4.0
9	Carbon Monoxide as CO	g/kw-hr	0.86	GL/EN/SOP/149	≤ 3.5
10	Mercury as Hg	mg/m ³	BLQ(LOQ : 0.03)	EPA method- 29	NA

Note:- BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

End of Report


Verified By


Authorized Signature

E. PRITHIVIRAJAN
LAB MANAGER

Page 1 of 1

TEST REPORT

ULR NO:TC858224000004237F

Report No. : EN24070011

Name of the Client : OPG Power generation Private limited
Address of the Client : OPG Nagar , Madharpakkam Raod , Periyaobulapuram village, Gummidipondi,601 201
Sample Name : Stack Emission
Sample Description : Stack Emission
Sampling Location : Stack-01 -ESP-02
Sample Submission Type : Collected by Lab Representative
Sample Condition : Fit for Analysis
Sampling Plan and Method : GL/EN/SOP/111

Sampling Date : 25-Jun-2024
Received Date : 01-Jul-2024
Commenced On : 01-Jul-2024
Completed On : 04-Jul-2024
Report Date : 04-Jul-2024



Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Limit as per CPCB Standard
Discipline: Chemical					
Group: Atmospheric Pollution					
1	Stack Temperature	K	484.0	IS 11255 (Part 3) : 2018	NA
2	Velocity	m/sec	20.4	EPA method 1-3	NA
3	Gaseous Discharge	Nm3/hr	266185	IS 11255 (Part 3) : 2018	NA
4	Oxygen as O2	%	8.8	GL/EN/SOP/149	NA
5	Carbon Monoxide as CO	mg/Nm3	4747.0	GL/EN/SOP/149	NA
6	Carbon Dioxide as CO2	%	11.3	GL/EN/SOP/149	NA
7	Particulate Matter	mg/Nm3	32.10	GL/ EN/SOP/113	150
8	Oxides of Nitrogen as NO2	mg/Nm3	172	GL/EN/SOP/149	NA
9	Sulphur Dioxide as SO2	mg/Nm3	351	EPA Method 6	NA
10	Mercury as Hg	mg/m3	BLQ(LOQ : 0.03)	EPA method- 29	NA

Note:- BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

End of Report


Verified By


Authorized Signature
E. PRITHIVIRAJAN
LAB MANAGER

TEST REPORT

ULR NO:TC858224000004238F

Report No. : EN24070012

Name of the Client : OPG Power generation Private limited
Address of the Client : OPG Nagar , Madharpakkam Raod , Periyaobulapuram village, Gummidipondi,601 201
Sample Name : Stack Emission Sampling Date : 25-Jun-2024
Sample Description : Stack Emission Received Date : 01-Jul-2024
Sampling Location : Stack-02-ESP-03 Commenced On : 01-Jul-2024
Sample Submission Type : Collected by Lab Representative Completed On : 04-Jul-2024
Sample Condition : Fit for Analysis Report Date : 04-Jul-2024
Sampling Plan and Method : GL/EN/SOP/111



Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Limit as per CPCB Standard
Discipline: Chemical					
Group: Atmospheric Pollution					
1	Stack Temperature	K	445.0	IS 11255 (Part 3) : 2018	NA
2	Velocity	m/sec	20.4	EPA method 1-3	NA
3	Gaseous Discharge	Nm3/hr	289618.0	IS 11255 (Part 3) : 2018	NA
4	Oxygen as O2	%	9.1	GL/EN/SOP/149	NA
5	Carbon Monoxide as CO	mg/Nm3	2063.0	GL/EN/SOP/149	NA
6	Carbon Dioxide as CO2	%	11.2	GL/EN/SOP/149	NA
7	Particulate Matter	mg/Nm3	46.30	GL/ EN/SOP/113	150
8	Oxides of Nitrogen as NO2	mg/Nm3	197	GL/EN/SOP/149	NA
9	Sulphur Dioxide as SO2	mg/Nm3	396	EPA Method 6	NA
10	Mercury as Hg	mg/m3	BLQ(LOQ : 0.03)	EPA method- 29	NA

Note:- BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

End of Report

Verified By

Authorized Signature

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LAB MANAGER

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TEST REPORT

ULR NO:TC858224000004239F

Report No. : EN24070013

Name of the Client : OPG Power generation Private limited
Address of the Client : OPG Nagar , Madharpakkam Raod , Periyaobulapuram village, Gummidipondi,601 201
Sample Name : Stack Emission Sampling Date : 25-Jun-2024
Sample Description : Stack Emission Received Date : 01-Jul-2024
Sampling Location : Stack-03 -ESP-04 Commenced On : 01-Jul-2024
Sample Submission Type : Collected by Lab Representative Completed On : 04-Jul-2024
Sample Condition : Fit for Analysis Report Date : 04-Jul-2024
Sampling Plan and Method : GL/EN/SOP/111



Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Limit as per CPCB Standard
Discipline: Chemical					
Group: Atmospheric Pollution					
1	Stack Temperature	K	440.0	IS 11255 (Part 3) : 2018	NA
2	Velocity	m/sec	20.4	EPA method 1-3	NA
3	Gaseous Discharge	Nm3/hr	268026	IS 11255 (Part 3) : 2018	NA
4	Oxygen as O2	%	8.3	GL/EN/SOP/149	NA
5	Carbon Monoxide as CO	mg/Nm3	2182.0	GL/EN/SOP/149	NA
6	Carbon Dioxide as CO2	%	12.3	GL/EN/SOP/149	NA
7	Particulate Matter	mg/Nm3	28.50	GL/ EN/SOP/113	150
8	Oxides of Nitrogen as NO2	mg/Nm3	220	GL/EN/SOP/149	NA
9	Sulphur Dioxide as SO2	mg/Nm3	443	EPA Method 6	NA
10	Mercury as Hg	mg/m3	BLQ(LOQ : 0.03)	EPA method- 29	NA

Note:- BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

End of Report

Verified By

Authorized Signature
E. PRITHIVIRAJAN
LAB MANAGER

TEST REPORT

ULR NO:TC858224000004236F

Report No. : EN24070010

Name of the Client : OPG Power generation Private limited
Address of the Client : OPG Nagar , Madharpakkam Raod , Periyaobulapuram village, Gummidipondi,601 201
Sample Name : Stack Emission
Sample Description : Stack Emission
Sampling Location : Stack-01 -ESP-01
Sample Submission Type : Collected by Lab Representative
Sample Condition : Fit for Analysis
Sampling Plan and Method : GL/EN/SOP/111

Sampling Date : 25-Jun-2024
Received Date : 01-Jul-2024
Commenced On : 01-Jul-2024
Completed On : 04-Jul-2024
Report Date : 04-Jul-2024



Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Limit as per CPCB Standard
Discipline: Chemical					
Group: Atmospheric Pollution					
1	Stack Temperature	K	523.0	IS 11255 (Part 3) : 2018	NA
2	Velocity	m/sec	18.7	EPA method 1-3	NA
3	Gaseous Discharge	Nm3/hr	266004	IS 11255 (Part 3) : 2018	NA
4	Oxygen as O2	%	8.3	GL/EN/SOP/149	NA
5	Carbon Monoxide as CO	mg/Nm3	5025.0	GL/EN/SOP/149	NA
6	Carbon Dioxide as CO2	%	11.7	GL/EN/SOP/149	NA
7	Particulate Matter	mg/Nm3	37.20	GL/ EN/SOP/113	150
8	Oxides of Nitrogen as NO2	mg/Nm3	186	GL/EN/SOP/149	NA
9	Sulphur Dioxide as SO2	mg/Nm3	387	EPA Method 6	NA
10	Mercury as Hg	mg/m3	BLQ(LOQ : 0.03)	EPA method- 29	NA

Note:- BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

End of Report

Verified By 


Authorized Signature

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LAB MANAGER

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Water Analysis Record by TNPCB

OPG POWER GENERATION PRIVATE LIMITED

Effluent Water Analysis :

[illegible]

OPG POWER GENERATION PRIVATE LIMITED

STP Treated outlet Water Analysis :

OPG POWER GENERATION PRIVATE LIMITED							
TNPCB WATER ANALYSIS RECORD							
Date of Sample Collection			8-Oct-24	22-Nov-24	20-Dec-24	24-Jan-25	28-Mar-25
Sample Description			STP O/L	STP O/L	STP O/L	STP O/L	STP O/L
DEE Code . No			DEEGMP24-0586	DEEGMP24-0718	DEEGMP24-0878	DEEGMP 2400957	DEEGMP 241286
Lab Code			1632	1955	2232	2465	3183
S.No	Parameter	Unit					
1	pH		6.25	7.25	8.14	8.11	7.92
3	Total Suspended Solids	mg/L	12	16	12	18	10
4	Total Dissolved Solids	mg/L					
5	Chlorides	mg/L					
6	Sulphates	mg/L					
7	Oil and Grease	mg/L					
8	BOD at 27C for 3 days	mg/L	3	3	3	4	3
9	COD	mg/L	32	32	32	40	24
10	Nitrate Nitrogen	mg/L					
11	Ammonical Nitrogen	mg/L	2.8	<2	2.8	5.6	<2
12	Fecal Coliform	mg/L	FNA	FNA	FNA	FNA	FNA
13	Total Nitrogen (NO3+NO2)	mg/L	1.69	<1	3.15	6.6	<1

Spontaneous Combustion Control Plan

	OPG POWER GENERATION PVT LTD., 2X77&1x80 MW THERMAL POWER PLANT	DOC NO: OPGPG/2/OPN/CHP/01/04			
DOC TITLE	SOP FOR SPONTANEOUS COMBUSTION MANAGEMENT	REV NO	0	DATE	01-MAY-2013

Objective:

The objective of this document is to describe the procedures to manage spontaneous combustion risk by implementing a monitoring and detection framework to prevent and/or mitigate spontaneous combustion occurrence in stockpile and thereby preventing generation of carbon monoxide gas and also loss of heating value of coal

Description:

The spontaneous combustion of coal can be identified by the following signs:

- 1) Heat or steam from coal
- 2) Smoke from the coal
- 3) Smoldering of coal
- 4) Hot spot in the pile

Coal Handling and stockpiling:

Coal is transferred from port to plant through trucks and unloaded by HTT and stored by two stackers and reclaimed through four reclaimers

Implementation and control strategies:

The spontaneous combustion management is based on:

Monitoring potential spontaneous combustion risk areas

Ensuring spontaneous combustion outbreaks are eliminated

Clearly defining responsibilities and actions required to respond to potential spontaneous combustion incidents

Roles and responsibilities:

Operation manager:

Install and maintain spontaneous combustion management monitoring infrastructure

CHP Engineers:

Conduct spontaneous combustion monitoring activities and mitigation measures

Coal spontaneous combustion:

Spontaneous combustion is the process of self-heating of coal by oxidation of exposed coal surfaces which occurs at or near ambient temperature producing heat energy. On exposure to air, coal undergoes a continuous oxidizing reaction. A hazard exists when the rate of heat production by this exothermic reaction exceeds the rate of cooling, produced mainly by the convective effects of air. The coal can then increase in temperature until combustion takes

 Power Ventures Plc	OPG POWER GENERATION PVT LTD., 2X77&1x80 MW THERMAL POWER PLANT	DOC NO: OPGPG/2/OPN/CHP/01/04			
DOC TITLE	SOP FOR SPONTANEOUS COMBUSTION MANAGEMENT	REV NO	0	DATE	01-MAY-2013

place. The actual spontaneous combustion process is complex and subject to a number of influencing factors, including gas content, water content, particle size, secondary mineralization, oxygen supply and the rate of exposure of the coal to oxygen and convection cooling

Stockpile Monitoring:

Monitoring involves scheduled(8 hr) visual inspections and recordings of coal stockpiles with specific attention to the presence of haze, smoke emissions or spontaneous combustion odour. A thermocouple is inserted into the stockpile at specific positions to measure temperature

Stockpile temperature monitoring trigger

Temperature trigger °C	Action Plan
< 50 °C	Continue scheduled observations(Once in three days)
50°C -70°C	Continue daily observations
>70°C	Reclaim the coal immediately irrespective of FIFO

Mitigation Measures:

- 1) The Bottom portion of the pile to be manually compacted with the help of shovels to prevent air from flowing into or out of the bottom of the pile when the coal pile is warmer than ambient conditions
- 2) In case of the coal being unable to reclaim due to some reasons and if smoke comes out, the smoldering portion to be taken out of the pile and water to be sprayed on the smoldering coal and allow it to cool and the area to be compacted to prevent further air contact

DOC TITLE

SOP FOR SPONTANEOUS COMBUSTION MANAGEMENT

REV NO

0

DATE

01-MAY-2013

Coal stockpile temperature Measurement:

	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	C1	C2	C3	C4	C5										
Bottom																																			
1.5 m level																																			
	C6	C7	C8	C9	C10	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	E1	E2	E3	E4	E5	E6	E7	E8	E9	E10										
Bottom																																			
1.5 m level																																			
	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	G1	G2	G3	Readings Taken By: Readings Taken time: Remarks ,if Any:																					
Bottom																																			
1.5 m level																																			

Class-B & Class-C Storage License Documents



भारत सरकार

Government of India

वाणिज्य और उद्योग मंत्रालय

Ministry of Commerce & Industry

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो)

Petroleum & Explosives Safety Organisation (PESO)

A और D - विंग, ब्लॉक 1-8, दूसरा तल, शास्त्री भवन, 26 हड्डोउस रोड, नुंगम्बक्कम

चेन्नै- 600006

A & D - Wing, Block 1-8, IInd Floor, Shastri Bhavan,

26 Haddous Road, Nungambakkam,

Chennai - 600006

E-mail : jtccechennai@explosives.gov.in

Phone/Fax No : 044 -

28287118,28281023,28281041,28287119/28284848

संख्या /No. : P/HQ/TN/15/4786 (P226617)

दिनांक /Dated : 13/11/2024

सेवा में
/To,

M/s. M/s OPG Power Generation Pvt. Ltd.,
New No. 6, Sardar Patel Road, Guindy,
NA,
Guindy,
Chennai,
Taluka: Chennai,
District: CHENNAI,
State: Tamil Nadu
PIN: 600032

विषय /Sub : Plot No, S. No. 195/2A, NA, Pappankuppam, Gummidipoondi, Taluka: Thiruvallur, District: THIRUVALLUR, State: Tamil Nadu, PIN: 601201 में स्थित विद्यमान पेट्रोलियम वर्ग B,C अधिष्ठापन में अनुज्ञप्ति सं P/HQ/TN/15/4786 (P226617) के नवीकरण के संदर्भ में।
Existing Petroleum Class B,C Installation at Plot No, S. No. 195/2A, NA, Pappankuppam, Gummidipoondi, Taluka: Thiruvallur, District: THIRUVALLUR, State: Tamil Nadu, PIN: 601201 - Licence No. P/HQ/TN/15/4786 (P226617) - Renewal regarding.

महोदय
/Sir(s),

कृपया आपके पत्र क्रमांक OIN1809439 दिनांक 08/11/2024 का अवलोकन करें।

Please refer to your letter No.: OIN1809439, dated 08/11/2024

अनुज्ञप्ति संख्या P/HQ/TN/15/4786 (P226617) दिनांक 17/01/2017 को दिनांक 31/12/2029 तक नवीनीकृत कर इस पत्र के साथ अग्रप्रेषित की जा रही है।

Licence No. P/HQ/TN/15/4786 (P226617) dated 17/01/2017 is forwarded herewith duly renewed upto 31/12/2029.

कृपया पेट्रोलियम नियम 2002 के अधीन बनाए गए नियम 148 में दी गई प्रक्रिया का कड़ाई से पालन करें। अनुज्ञप्ति के नवीकरण हेतु समस्त दस्तावेजों को अनुज्ञप्ति की वैधता समाप्त होने की तिथि से कम से कम 30 दिन पूर्व Jt. Chief Controller of Explosives, South Circle Office, Chennai कार्यालय को प्रेषित करें।

Please follow the procedure strictly as laid down in rule 148 of the Petroleum Rules, 2002 and submit complete documents for the Renewal of the licence to Jt. Chief Controller of Explosives, South Circle Office, Chennai, so as to reach his office on or before the date on which Licence expires.

कृपया पावती दें।

Please acknowledge the receipt.

भवदीय /Yours faithfully,

((एस. सरवनन)
(S Saravanan))

विस्फोटक नियंत्रक

Controller of Explosives

कृते संयुक्त मुख्य विस्फोटक नियंत्रक

For Jt. Chief Controller of Explosives

चेन्नै/Chennai

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

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

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

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

अनुज्ञप्ति सं. (Licence No.) : P/HQ/TN/15/4786(P226617)

फीस रूप (Fee Rs.) 18550/- per year

M/s. M/s OPG Power Generation Pvt. Ltd., New No. 6, Sardar Patel Road, Guindy,, NA, Guindy, Chennai, Taluka: Chennai, District: CHENNAI, State: Tamil Nadu, PIN: 600032 को केवल इसमें यथा विनिर्दिष्ट वर्ग और मात्राओं में पेट्रोलियम 271.00 KL आयात करने के लिए और उसका, नीचे वर्णित और अनुमोदित नक्शा संख्या P/HQ/TN/15/4786(P226617) तारीख 17/01/2017 जो कि इससे उपाबद्ध हैं, में दिखाए गए स्थान पर भण्डारकरण के लिए पेट्रोलियम अधिनियम, 1934 के उपबंधों या उसके अधीन बनाए गए नियमों तथा इस अनुज्ञप्ति की अतिरिक्त शर्तों के अधीन रहते हुए, यह अनुज्ञप्ति अनुदत्त की जाती है।

Licence is hereby granted to M/s. M/s OPG Power Generation Pvt. Ltd., New No. 6, Sardar Patel Road, Guindy,, NA, Guindy, Chennai, Taluka: Chennai, District: CHENNAI, State: Tamil Nadu, PIN: 600032 valid only for the importation and storage of 271.00 KL Petroleum of the class and quantities as herein specified and storage thereof in the place described below and shown on the approved plan No P/HQ/TN/15/4786(P226617) dated 17/01/2017 attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

यह अनुज्ञप्ति 31st day of December 2029 तक प्रवृत्त रहेगी।
The Licence shall remain in force till the 31st day of December 2029

पेट्रोलियम का विवरण /Description of Petroleum	अनुज्ञप्त मात्रा (किलोलीटरों में) /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	NIL
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	50.00 KL
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	221.00 KL
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C, otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	271.00 KL

July 27, 2009

For Chief Controller of Explosives
HQ, Nagpur

- 1). Amendment dated - 08/01/2015
- 2). Amendment dated - 12/01/2017
- 3). Amendment dated - 17/01/2017

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

अनुज्ञप्त परिसर जिसकी विन्यास सीमाएं अन्य विशिष्टां संलग्न अनुमोदित नक्शों में दिखाई गई हैं Plot No: S. No. 195/2A, NA, Pappankuppam, Gummidipoondi, Taluka: Thiruvallur, District: THIRUVALLUR, State: Tamil Nadu, PIN: 601201 स्थान पर अवस्थित है तथा उसमें निम्नलिखित 1 Above Ground tank(s) for CLASS B , 1 Above Ground tank(s) for CLASS C , सम्मिलित हैं।

The licensed premises, the layout , boundaries and other particulars of which are shown in the attached approved plan are situated at Plot No: S. No. 195/2A, NA, Pappankuppam, Gummidipoondi, Taluka: Thiruvallur, District: THIRUVALLUR, State: Tamil Nadu, PIN: 601201 and consists of 1 Above Ground tank(s) for CLASS B , 1 Above Ground tank(s) for CLASS C , together with connected facilities.

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Hydrogeological Study

HYDROGEOLOGICAL STUDY FOR
TECHNICAL AUDITING OF IMPLEMENTATION OF
RAIN-WATER HARVESTING AND GROUND WATER RECHARGE BY
OPG POWER GENERATION Pvt. Ltd., GUMMIDIPOONDI
TAMIL NADU



June 2023

Prepared by

B. JAYA KUMAR

Ground Water Consultant

Accredited by Central Ground Water Authority

Govt. of India

Former Regional Director, CGWB, Govt. of India

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Rain Water Harvesting Structure Development

OPG POWER GENERATION PRIVATE LIMITED

2X77, 1X80, 1X180 MW – Gummidipoondi

Rain Water Harvesting Structure

Rain Water Harvesting Structure # 1



Rain Water Harvesting Structure # 2



Rain Water Harvesting Structure # 3



OPG POWER GENERATION PRIVATE LIMITED

2X77, 1X80, 1X180 MW – Gummidipoondi

Rain Water Harvesting Structure

Rain Water Harvesting Structure # 4



Rain water Harvesting Structure # 5



Rain Water Harvesting Structure # 6



OPG POWER GENERATION PRIVATE LIMITED

2X77, 1X80, 1X180 MW – Gummidipoondi

Rain Water Harvesting Structure

Rain Water Harvesting Structure # 7



Rain Water Harvesting Structure # 8



Green Belt Development



OPG Power Generation Private Limited

Green Belt details



Piezometer Level Monitoring



OPG Power Generation Private Limited

Piezometer Data

3 Numbers of piezometer wells with 15 m and 60 m were established inside our plant premises based on independent hydrological study.

Reference: Depth from the Normal Ground Level in Meters.

Sl.No	Month		Date	I (NW)	II (SE)	III (SW)	I (NW)	II (SE)	III (SW)	Rainfall in mm
				15 M			60 M			
	09-07-2015 (base Data			3	8.2	7.3	8.2	13.1	17.4	
1	Apr-17	1	11-Apr-17	3.29	6.55	3.54	4.11	8.32	7.07	-
2		2	24-Apr-17	3.41	6.77	3.75	4.21	8.72	7.32	-
3	May-17	1	17-May-17	3.68	7.20	4.60	4.84	9.20	7.50	-
4		2	29-May-17	3.70	7.40	4.65	4.90	9.40	7.80	
5	Jun-17	1	13-Jun-17	3.73	7.50	4.75	5.10	9.60	8.00	32.9
6		2	29-Jun-17	3.65	7.45	4.50	4.95	9.60	7.82	
7	Jul-17	1	10-Jul-17	2.59	7.30	4.12	4.57	9.50	7.12	71.0
8		2	25-Jul-17	2.44	6.71	3.96	4.27	8.84	7.32	
9	Aug-17	1	4-Aug-17	3.35	7.32	3.66	4.88	9.75	7.62	-
10		2	22-Aug-17	1.14	7.30	3.62	4.75	9.67	7.23	
11	Sep-17	1	6-Sep-17	1.90	7.60	5.00	4.90	9.00	6.90	86.7
12		2	21-Sep-17	2.00	7.70	5.05	4.90	9.65	6.35	
13	Oct-17	1	6-Oct-17	0.50	7.50	1.80	4.60	8.50	4.20	203.0
14		2	27-Oct-17	0.10	8.00	2.90	4.80	8.50	4.98	
15	Nov-17	1	7-Nov-17	0.10	2.30	2.10	3.20	7.60	3.50	181.0
16		2	30-Nov-17	0.10	2.50	2.00	3.80	7.80	2.40	
17	Dec-17	1	12-Dec-17	0.50	3.10	2.10	4.80	7.80	2.20	-
18		2	30-Dec-17	1.00	2.80	1.95	4.35	7.40	2.30	
19	Jan-18	1	12-Jan-18	1.00	3.10	2.10	4.70	7.60	2.80	-
20		2	30-Jan-18	1.10	4.20	2.20	4.80	7.60	3.30	
21	Feb-18	1	14-Feb-18	1.10	5.90	3.15	4.85	8.00	5.60	-
22		2	27-Feb-18	1.50	6.40	3.80	4.85	8.20	5.85	
23	Mar-18	1	15-Mar-18	1.50	6.60	6.20	4.85	8.20	6.10	-
24		2	30-Mar-18	1.50	7.52	4.40	4.65	8.20	6.10	
25	Apr-18	1	3-Apr-18	1.60	7.25	5.60	4.60	8.20	6.90	-
26		2	18-Apr-18	1.60	7.60	6.30	4.80	8.20	6.80	
27	May-18	1	3-May-18	1.60	7.70	6.50	4.85	8.20	6.80	-
28		2	18-May-18	1.65	7.70	6.40	4.80	8.20	7.10	
29	Jun-18	1	3-Jun-18	1.60	7.79	6.46	4.50	8.30	7.40	80.4
30		2	18-Jun-18	2.65	7.70	6.60	4.85	8.40	7.70	
31	Jul-18	1	3-Jul-18	2.62	7.72	6.74	4.84	8.40	7.96	11.0
32		2	18-Jul-18	1.95	7.70	6.24	4.90	8.90	6.70	
33	Aug-18	1	3-Aug-18	2.20	8.10	6.70	5.10	8.10	7.40	51.2
34		2	18-Aug-18	2.14	9.90	6.80	5.20	8.20	8.40	
35	Sep-18	1	3-Sep-18	2.00	9.50	7.00	5.10	8.10	8.40	18.8
36		2	18-Sep-18	2.10	9.70	7.20	5.10	8.20	8.70	
37	Oct-18	1	3-Oct-18	2.15	9.50	6.50	5.00	8.30	7.50	60.9
38		2	18-Oct-18	2.10	9.40	6.40	4.90	8.20	7.40	
39	Nov-18	1	3-Nov-18	1.50	8.80	5.50	5.00	8.30	7.00	-
40		2	18-Nov-18	1.80	9.50	6.70	5.20	8.30	4.80	



OPG Power Generation Private Limited

Piezometer Data

41	Dec-18	1	3-Dec-18	0.40	4.50	0.80	5.40	8.00	3.30	0.9
42		2	18-Dec-18	1.00	5.00	2.30	5.40	8.20	3.40	
43	Jan-19	1	3-Jan-19	1.10	5.60	1.60	5.40	8.20	3.50	-
44		2	18-Jan-19	1.10	5.80	2.00	5.50	8.20	3.60	
45	Feb-19	1	3-Feb-19	1.10	6.20	4.60	5.70	8.30	7.10	-
46		2	18-Feb-19	1.20	7.00	4.80	5.40	8.20	7.40	
47	Mar-19	1	3-Mar-19	1.50	7.00	4.60	5.40	8.20	7.10	-
48		2	18-Mar-19	1.60	7.60	6.10	5.40	8.40	7.20	
49	Apr-19	1	3-Apr-19	1.60	8.30	6.30	5.40	8.40	7.60	-
50		2	18-Apr-19	2.90	8.90	6.50	5.46	8.40	7.60	
51	May-19	1	3-May-19	3.00	8.40	7.00	5.40	8.50	7.30	-
52		2	18-May-19	3.24	8.71	7.40	5.40	8.74	7.50	-
53		3	27-May-19	2.80	9.00	7.70	5.40	8.50	7.50	-
54	Jun-19	1	4-Jun-19	3.10	9.20	7.70	5.60	8.60	7.60	-
55		2	10-Jun-19	2.90	9.30	8.10	5.70	8.70	7.80	13.8
56		3	18-Jun-19	3.23	9.20	8.20	5.70	8.70	7.80	
57	Jul-19	1	3-Jul-19	3.30	9.50	8.40	5.70	8.60	7.80	
58		2	18-Jul-19	3.40	9.80	9.10	5.70	8.60	7.80	26.0
59		3	25-Jul-19	4.00	9.60	9.10	5.80	8.60	7.80	
60	Aug-19	1	3-Aug-19	4.00	9.75	9.10	5.90	8.70	7.90	-
61		2	19-Aug-19	2.90	9.90	9.70	5.90	8.80	8.40	
62		3	29-Aug-19	2.70	9.80	9.70	5.90	8.90	8.10	
63	Sep-19	1	3-Sep-19	2.70	9.80	9.60	5.90	8.80	8.40	26.0
64		2	20-Sep-19	2.00	5.10	9.50	6.10	9.00	8.20	
65		3	27-Sep-19	2.00	5.40	9.50	6.10	9.00	8.20	-
66	Oct-19	4	3-Oct-19	2.40	9.20	8.40	6.30	9.40	7.30	94.0
67		5	18-Oct-19	1.10	9.10	7.60	6.07	8.40	7.40	
68		6	31-Oct-19	0.80	3.60	3.50	6.03	8.00	7.40	-
69	Nov-19	1	6-Nov-19	0.80	5.20	3.40	6.00	8.60	6.20	64.0
70		2	18-Nov-19	0.80	5.10	3.20	6.20	8.50	6.40	
71	Dec-19	1	2-Dec-19	0.50	3.10	2.80	5.80	8.80	5.40	144.0
72		2	21-Dec-19	1.00	2.90	2.80	6.00	9.10	2.20	
73	Jan-20	1	4-Jan-20	0.60	2.30	1.10	5.60	9.10	2.10	62.6
74		2	17-Jan-20	0.70	2.40	1.20	4.70	9.00	1.20	
75	Feb-20	1	4-Feb-20	1.20	5.00	2.60	4.40	9.00	1.80	0.7
76		2	18-Feb-20	1.30	4.80	3.00	3.80	9.00	1.80	
77	Mar-20	1	2-Mar-20	1.40	5.20	3.70	3.50	9.00	1.90	-
78		2	18-Mar-20	1.50	5.50	3.80	3.70	9.20	2.00	
79	Apr-20	1	3-Apr-20	1.80	5.90	2.90	5.90	8.90	4.00	59.5
80		2	28-Apr-20	1.82	6.00	2.90	5.90	8.95	4.09	



OPG Power Generation Private Limited

Piezometer Data

81	May-20	1	11-May-20	2.20	6.94	3.40	5.95	9.00	5.38	-
82		2	18-May-20	2.30	7.00	3.60	6.10	9.20	5.50	
83	Jun-20	1	4-Jun-20	2.35	7.50	3.10	6.00	9.00	6.50	38.3
84		2	18-Jun-20	2.80	7.50	3.40	6.10	9.00	6.20	
85	Jul-20	1	4-Jul-20	2.20	8.00	4.00	6.10	9.00	6.70	114.0
86		2	20-Jul-20	2.00	7.70	4.20	6.00	9.10	6.40	
87	Aug-20	1	4-Aug-20	1.80	7.50	4.20	5.50	8.80	6.30	74.5
88		2	16-Aug-20	1.80	8.00	4.30	5.20	8.90	6.50	
89	Sep-20	1	3-Sep-20	2.00	8.10	4.50	5.80	9.10	6.60	162.5
90		2	15-Sep-20	2.40	8.10	4.50	6.10	9.10	6.80	
91	Oct-20	1	4-Oct-20	2.10	8.30	4.60	6.20	9.30	5.80	206.2
92		2	22-Oct-20	1.60	8.60	4.70	6.20	9.30	5.80	
93	Nov-20	1	5-Nov-20	1.20	7.60	3.00	6.05	9.30	5.15	436.0
94		2	18-Nov-20	0.40	2.50	0.80	4.20	9.30	1.74	
95	Dec-20	1	5-Dec-20	0.10	2.00	0.20	4.10	9.30	1.05	206.0
96		2	19-Dec-20	0.10	2.00	0.30	4.00	9.30	1.10	
97	Jan-21	1	4-Jan-21	0.50	2.60	0.30	2.40	9.17	1.00	-
98		2	18-Jan-21	0.80	1.90	0.40	1.50	9.10	1.60	
99	Feb-21	1	4-Feb-21	0.90	2.10	0.60	1.30	9.00	1.70	-
100		2	18-Feb-21	0.80	2.60	0.70	1.30	9.10	1.40	
101	Mar-21	1	6-Mar-21	0.90	2.50	0.90	1.40	9.10	1.70	-
102		2	18-Mar-21	1.10	3.70	1.10	1.60	9.30	3.20	
103	Apr-21	1	3-Apr-21	1.10	4.40	1.30	1.50	9.10	3.70	16.0
104		2	18-Apr-21	1.60	6.00	1.20	1.60	9.20	4.30	
105	May-21	1	3-May-21	1.60	6.50	1.40	1.50	9.00	4.80	26.1
106		2	18-May-21	2.10	6.70	1.90	1.70	9.00	5.20	
107	Jun-21	1	3-Jun-21	2.10	6.50	1.90	1.70	9.30	6.00	0.5
108		2	18-Jun-21	2.10	6.40	1.80	1.70	9.00	6.00	
109	Jul-21	1	3-Jul-21	1.10	7.60	2.30	1.90	9.20	7.00	251.2
110		2	26-Jul-21	1.00	7.80	2.20	1.80	9.10	7.60	
111	Aug-21	1	3-Aug-21	1.38	7.00	3.00	1.80	9.40	6.40	84.7
112		2	18-Aug-21	1.38	7.10	3.15	1.80	9.30	6.45	
113	Sep-21	1	3-Sep-21	2.00	7.80	3.10	1.90	9.40	6.80	65.8
114		2	18-Sep-21	2.20	8.00	3.10	2.00	9.40	6.40	
115	Oct-21	1	7-Oct-21	1.50	6.50	3.40	2.20	9.10	3.40	201.9
116		2	18-Oct-21	1.30	6.30	3.40	2.20	9.10	3.20	
117	Nov-21	1	7-Nov-21	1.00	3.80	3.50	2.10	9.10	2.50	843.7
118		2	18-Nov-21	0.70	2.20	1.50	2.10	9.10	1.10	
119	Dec-21	1	2-Dec-21	0.30	1.50	0.00	2.12	9.20	0.68	115.3
120		2	18-Dec-21	0.48	0.80	0.96	2.07	9.20	1.60	
121	Jan-22	1	4-Jan-22	0.60	1.10	1.00	2.80	9.17	1.00	42.4
122		2	18-Jan-22	0.66	1.40	0.51	2.15	9.19	1.00	
123	Feb-22	1	7-Feb-22	0.69	1.68	0.54	2.13	9.18	1.13	-
124		2	18-Feb-22	0.88	2.13	0.57	2.07	9.03	1.35	
125	Mar-22	1	5-Mar-22	0.90	2.15	0.60	2.15	9.15	1.37	-
126		2	25-Mar-22	1.25	2.40	0.95	2.00	9.00	2.25	
127	Apr-22	1	11-Apr-22	1.68	3.10	1.28	2.20	9.16	3.19	-
128		2	25-Apr-22	1.69	3.88	1.39	2.19	9.16	4.67	
129	May-22	1	10-May-22	1.66	5.87	1.48	2.20	9.00	4.42	35.6
130		2	27-May-22	1.68	5.95	1.51	2.26	9.10	4.48	
131	Jun-22	1	8-Jun-22	2.8	5.88	1.73	2.2	9.77	4.97	114.7
132		2	28-Jun-22	2.7	5.85	1.7	2.2	9.7	4.85	



OPG Power Generation Private Limited

Piezometer Data

133	Jul-22	1	7-Jul-22	1.30	5.58	2.48	2.80	9.48	4.57	69.3
134		2	25-Jul-22	1.3	5.5	2.45	2.8	9.4	4.52	
135	Aug-22	1	12-Aug-22	2.10	6.40	2.52	2.55	9.30	5.10	52.6
136		2	30-Aug-22	2.1	6.2	2.5	2.5	9.2	5	
137	Sep-22	1	7-Sep-22	2.22	6.95	2.82	2.43	9.48	5.78	47.2
138		2	18-Sep-22	2.1	6.9	2.75	2.4	9.4	5.7	
139	Oct-22	1	8-Oct-22	1.96	6.64	3.10	2.59	9.36	5.89	240
140		2	27-Oct-22	1.92	6.6	3.1	2.5	9.4	5.8	
141	Nov-22	1	7-Nov-22	0.45	2.20	0.94	2.61	9.24	3.25	304
142		2	23-Nov-22	0.4	2.1	0.9	2.5	9.2	3.2	
143	Dec-22	1	12-Dec-22	0.32	0.68	0.24	2.61	8.63	2.61	193.6
144		2	28-Dec-22	0.69	0.88	0.28	2.63	8.68	2.79	
145	Jan-23	1	8-Jan-23	0.80	0.92	0.10	2.60	8.60	2.60	0.2
146		2	20-Jan-23	0.85	1.62	1.71	2.66	8.58	1.44	
147	Feb-23	1	3-Feb-23	0.90	1.85	2.10	2.72	8.60	1.44	0
148		2	16-Feb-23	1.01	1.92	2.37	2.77	8.62	1.46	
149	Mar-23	1	3-Mar-23	1.12	2.52	2.80	2.70	8.60	2.25	87.4
150		2	17-Mar-23	1.24	3.28	3.27	2.66	8.65	3.62	
151	Apr-23	1	5-Apr-23	1.02	5.44	2.44	2.71	8.58	3.36	1.4
152		2	18-Apr-23	1.21	5.5	2.49	2.8	8.61	3.42	
153	May-23	1	5-Apr-23	1.50	5.40	2.40	2.60	8.50	3.30	37.6
154		2	18-Apr-23	1.65	5.52	2.65	2.7	8.65	3.5	
155	Jun-23	1	6-Jun-23	1.75	6.34	3.25	2.90	8.76	4.03	22.5
156		2	21-May-23	1.69	6	3.1	2.8	8.8	4	
157	Jul-23	1	4-Jul-23	1.80	6.54	3.80	2.96	9.00	4.32	43.8
158		2	17-Jul-23	2.8	7.39	6.24	2.93	8.89	4.43	
159	Aug-23	1	6-Aug-23	2.16	8.65	7.05	3.22	9.26	4.90	119.6
160		2	22-Aug-23	1.86	8.62	7.34	3.27	9.39	5.13	
161	Sep-23	1	6-Sep-23	1.42	8.26	6.70	3.27	9.40	5.10	166.9
162		2	21-Sep-23	1.38	8.15	6.6	3.18	9.2	5	
163	Oct-23	1	6-Oct-23	1.18	8.22	5.97	3.00	9.15	5.24	17.7
164		2	19-Oct-23	1.15	8.2	5.91	2.95	9.1	5.2	
165	Nov-23	1	6-Nov-23	0.93	7.02	5.48	2.87	9.2	5.54	94.9
166		2	18-Nov-23	0.9	6.95	5.4	2.8	9.15	5.5	
167	Dec-23	1	14-Dec-23	0.62	0.86	0.15	2.38	8.9	0.9	321.3
168		2	25-Dec-23	0.7	1.2	0.9	2.3	8.95	1.9	



OPG Power Generation Private Limited

Piezometer Data

169	Jan-24	1	04-Jan-24	0.84	1.46	0.89	2.4	8.97	1.8	0
170		2	22-Jan-24	0.9	1.63	1.42	2.4	8.94	1.7	
171	Feb-24	1	04-Feb-24	0.8	1.6	1.51	2.34	1.92	0.71	0
172		2	20-Feb-24	1.3	2.15	1.71	2.5	2.19	1.12	
173	Mar-24	1	04-Mar-24	1.18	2.8	1.2	2.6	2.24	1.2	0
174		2	20-Mar-24	1.2	2.9	1.3	2.8	2.32	1.3	
175	Apr-24	1	06-Apr-24	1.34	6.24	1.74	2.41	2.37	4.29	0
176		2	22-Apr-24	1.36	6.36	1.68	2.55	8.14	5.23	
177	May-24	1	06-May-24	2.2	6.55	2.3	2.55	8.36	6.25	14.6
178		2	20-May-24	2	7.74	2.62	2.6	8.58	6.18	
179	Jun-24	1	04-Jun-24	2.19	8.6	2.96	2.64	9	6.91	65.6
180		2	22-Jun-24	2.36	8.3	3.16	2.71	9.05	6.88	
181	Jul-24	1	05-Jul-24	1.1	7.79	3.44	2.29	8.78	6.24	97.3
182		2	23-Jul-24	1.42	7.39	3.54	2.41	8.89	6.29	
183	Aug-24	1	03-Aug-24	1.6	8.21	3.83	2.41	8.91	6.51	48.8
184		2	20-Aug-24	1.65	8.52	3.93	2.59	8.96	6.75	
185	Sep-24	1	03-Sep-24	1.24	7.98	6.78	2.32	3.9	4.02	77.1
186		2	18-Sep-24	1.2	8.03	6.85	2.39	4.1	4.22	
187	Oct-24	1	06-Oct-24	1.14	8.02	6.37	2.31	4.12	4.34	220.4
188		2	20-Oct-24	0.9	2.45	1.5	2.1	4.15	4.5	
189	Nov-24	1	02-Nov-24	0.62	2.26	1.82	2	4.21	2.31	175.3
190		2	19-Nov-24	0.2	1.24	0.72	1.76	4.28	1.5	
191	Dec-24	1	22-Dec-24	0.27	1.5	0.61	1.49	4.45	1.3	129.2
192		2	08-Dec-24	0.25	1.4	0.55	1.3	4.36	1.3	
193	Jan-25	1	03-Jan-25	0.32	1.5	0.67	1.4	4.74	1.35	27.1
194		2	18-Jan-25	0.39	1.5	0.7	1.45	4.8	1.3	
195	Feb-25	1	08-Feb-25	0.63	1.43	1.17	1.92	2.85	2.25	0
196		2	17-Feb-25	0.78	1.69	1.58	2.1	3.11	2.78	
197	Mar-25	1	03-Mar-25	0.9	3.9	2.32	1.6	4.35	3.5	2.9
198		2	28-Mar-25	0.95	3.8	2.41	1.65	4.25	6.2	
199	Apr-25	1	05-Apr-25	1.13	3.9	3.95	1.61	4.43	9.5	14.6
200		2	19-Apr-25	1.17	3.94	4.1	1.67	4.59	9.69	

Health & Audiometric Record

STANDARD HEALTHCARE

ISO 9001:2015

A Unit of Standard Preventive Medicorp Services LLP

Registered As : Standard Preventive Medicorp services LLP

44-46, VGP Rajesh Nagar 1st Main Road, Naryanapuram, Pallikarani,
Velachery - Medavakkam Main Road, Chennai - 600 100.

Land Line : 044 - 4957 1046 | Mobile : +91 98403 93626 | 91765 50247

Mail Id : standardhealthcareservices@gmail.com

Website : www.standardhealthcare.org

Name: MR.D GANAN SEKAR
EMP.ID/DEP: 1001359/STORE

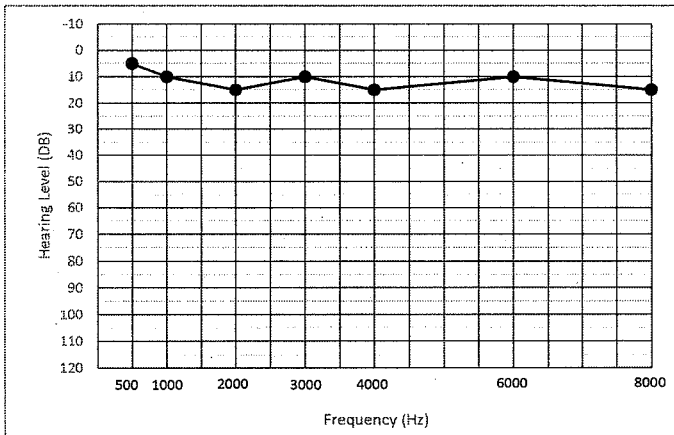
Age: 25/MALE

Date: 27-Nov-23

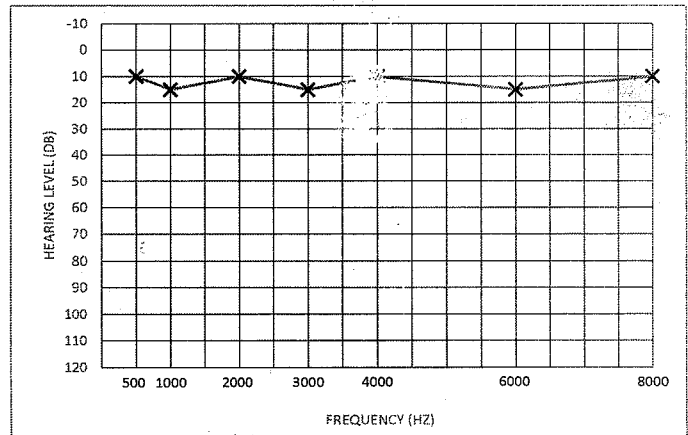
Patient ID.: 324602

PURE TONE AUDIOGRAM

RIGHT



LEFT



Air conduction, masked if necessary

Air conduction, not masked (shadow point)

Bone conduction, not masked

Bone conduction, masked

Uncomfortable loudness level

Right

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Left

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REMARKS

NORMAL HEARING IN BOTH EARS

Consultant Audiologist

Note : Report Generated based on the patient respond.

Public Hearing – Newspaper Advertisement



OPG Power Generation Private Limited., 2x77, 1x80, 1x180MW TPP

Newspaper Advertisement in Two local News Paper

27.05.2021

On 09.04.2008 for 2x77 MW

OPG Power Generation Private Limited.

Proposed Expansion by addition of 1 x 80 MW and 1 x 160 MW coal based Thermal Power Plant within / adjacent to the existing 2 x 77 MW Thermal Power Plant at Peria Obulapuram Villages in Gummudipoondi Taluk of Thanjavur District.

Public Notice

Environmental Clearance has been accorded by Government of India, Ministry of Environment and Forests, IA Division, Paryavaran Bhavan, CGO Complex, New Delhi - 110 603. Copy of the Environmental Clearance is available at Tamil Nadu Pollution Control Board, Quindiy, Chennai and may also be referred to in the website of the Ministry at <http://www.envfor.nic.in>

CONSUMER DISPUTES REDRESSAL COMMISSION
(Constituted under Consumer Protection Act, 1986)
5th Floor, 8 Wing, Anna Tower,
(Opp. Indian Oil Station)
MISCELLANEOUS APPLICATION NO. 28 OF 2011
IN ORIGINAL PETITION NO. 72 OF 2008

OPG Power Generation Private Limited.

Proposed Expansion by addition of 1 x 80 MW and 1 x 160 MW coal based Thermal Power Plant within / adjacent to the existing 2 x 77 MW Thermal Power Plant at Peria Obulapuram Villages in Gummudipoondi Taluk of Thanjavur District.

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(Constituted under Consumer Protection Act, 1986)
5th Floor, 8 Wing, Anna Tower,
(Opp. Indian Oil Station)
MISCELLANEOUS APPLICATION NO. 28 OF 2011
IN ORIGINAL PETITION NO. 72 OF 2008

On 06.06.2011 for 1x80 & 1x160 MW

OPG Power Generation Private Limited.

Proposed Expansion by addition of 1 x 80 MW and 1 x 160 MW coal based Thermal Power Plant within / adjacent to the existing 2 x 77 MW Thermal Power Plant at Peria Obulapuram Villages in Gummudipoondi Taluk of Thanjavur District.

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OPG Power Generation Private Limited.

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CONSUMER DISPUTES REDRESSAL COMMISSION
(Constituted under Consumer Protection Act, 1986)
5th Floor, 8 Wing, Anna Tower,
(Opp. Indian Oil Station)
MISCELLANEOUS APPLICATION NO. 28 OF 2011
IN ORIGINAL PETITION NO. 72 OF 2008

Ash Customer List

Fly Ash & Bottom Ash Major Customer List

S.No	Name	Address
1	GGR Flyash Bricks	Elavur, Gummidipoondi
2	Goodwin Flyash Bricks	Mogappair, Chennai
3	M.S.Fly ash Bricks	Kammarpalayam, Gummidipoondi
4	Om Vinayaga Traders	Thervazhi, Thiruvallur District
5	Padmavathi Traders	Pethikuppam, Gummidipoondi
6	Sri Mookambika Bricks and Blocks	Surapet, Chennai
7	Sri Praveen Enterprises	Madhavaram, Thiruvallur District
8	Sri Sakthi Enterprises	Palli street, Gummidipoondi
9	Sun Rock Industry	Arakkonam, Vellore District
10	Tharun Vikas Construction	No:14 Vaidhi Nagar,Poonamallee, Chennai
11	The Ramco Cements Limited	Kattuputthur village, Uthiramerur
12	Kanniamman Enterprises	Poonamallee, Chennai
13	Ultra Tech Cements Limited	Arakkonam, Vellore District
14	Thirumalai Agencies	Madhavaram, Thiruvallur District
15	Dalmia Cement (Bharat) Ltd	Tamaraikulam, Ariyalur District
16	Ultra Tech Cements Limited	Reddipalayam, Ariyalur
17	Durai Selvam	Edapalayam, S.R.Kandigai
18	Jayachandran	Chinthalakuppam, S.R.Kandigai, Gummidipoondi
19	DKR Enterprises	S.R.Kandigai, Gummidipoondi
20	Chettinad Cement	Keelapalavur, Ariyalur
21	SN Suppliers	Thurapallam, Elavur
22	Sri Flyash Bricks	Kilikodi, Kavaraipettai
23	N.S.Enterprises	M C Raja Street Vallur, Thiruvalur
24	RKC Enterprises	13 Nagaraja Kandigai, SR Kandigai
25	Sri Sai Transport KPR	No.10/A,Muthumariamman Koil Street,MA.PO.SI Nagar Gummidipoondi
26	Sri Sakthi Enterprises (Deptor)	Palli Street, SR Kandigai Village, Gummidipoondi
27	Cheliyan Enterprises	No.749/1,Pappankuppam Village,SR Gummidipoondi
28	CMR Transport	93A Sitharajakandigai Gummidipoondi
29	Kamalakannan Enterprises	No.51/14C,Thasildarmedu,Periya Obulapuram Gummidipoondi

Analysis of Radioactivity and Heavy Metals

TEST REPORT

ORIGINAL

RADIOACTIVITY MEASUREMENT / TEST REPORT

ULR-TC620624000037298F

Date: 27 / 08 / 2024

Discipline: Radiological

Group: Environment (Radioactive Contaminants)

Test Report No : MBT / RL / 34659 / 2024-2025

Sample identification : 34659
*Sample received from : M/s. OPG POWER GENERATION PRIVATE LIMITED
MADHARAPAKKAM ROAD, PERIYA OBULAPURAM,
GUMMIDIPOONDI – 601 201
*Nature of sample : COAL
*Customer Ref. No : WO No. OPGPG/SER/0222/24-25, 20.07.2024
*Volume / weight : 1800 g
Laboratory Sample No : 2407247
Sample received on : 23 / 07 / 2024
Testing completed on : 26 / 08 / 2024

S.No	Nuclides Analyzed	Activity Determination Limit Of Instrument MDA (3 σ)	Method of Testing	Result (Bq / kg)	Exemption levels as per IAEA BSS
1.	Nat.Thorium-232	16.40 Bq/kg	AERB – Standard Analytical method (Clause 4.3.4 : 2003)	BDL	1000 Bq/kg
2.	Nat. Uranium-238	16.20 Bq/kg	AERB – Standard Analytical method (Clause 4.3.4 : 2003)	BDL	1000 Bq/kg
3.	K - 40	60.01 Bq/kg	AERB – Standard Analytical method (Clause 4.3.4 : 2003)	BDL	10,000 Bq/kg

Note: 1. BDL: Below Detectable Level, MDA: Minimum Detectable Activity & Bq: Becquerel

2.* This information was provided by customer

Remarks: The above sample was analyzed for the radioactivity content. This is to certify that the activity levels of Natural Thorium-232, Natural Uranium-238 and K-40 in the sample were found to be below the IAEA Basic safety series limits.

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

Customer Name & Address:-

M/s. OPG POWER GENERATION PRIVATE LIMITED
MADHARAPAKKAM ROAD, PERIYA OBULAPURAM,
GUMMIDIPOONDI – 601 201.

Reviewed By



S. SARASWATHI
Junior Scientist




Dr.G.SANKARAN PILLAI,
Technical Manager – Radiological,
Authorized Signatory.

Page 1 of 1

Terms and Condition

This report in full or in part shall not be published, advertised and used for any legal action, unless prior permission has been secured. This test report pertains only for the sample tested and such samples are retained for 7 days (in case of perishable) and 30 days for all other samples. If there is any discrepancy / complaint received from the customer within 30 days from the date of report, the sample will be kept for further 30 days. The Samples from Regulatory bodies will be retained as specified. The sample will be disposed off or returned on request after the retention period. The total liability of this laboratory is limited to the Invoice amount. Sample not drawn by laboratory unless stated.

Regd. Office & Sample Collection Centre : New No. 17/1, Sadullah Street, T. Nagar, Chennai - 600 017 Tamilnadu, INDIA
Phone : 044 - 2681 0052 / 2431 2759 Email: monarchbio@gmail.com / info@monarchtestinglab.com; website: www.monarchtestinglab.com
LAB : 37-A, SIDCO Industrial Estate, Thirumazhisai, Chennai - 600 124, Tamilnadu, INDIA. Ph: 91- 44- 2681 0052

54th MOM on Coal Transportation

MINUTES OF THE 54th MEETING OF RECONSTITUTED EXPERT APPRAISAL COMMITTEE ON ENVIRONMENTAL IMPACT ASSESSMENT OF THERMAL POWER AND COAL MINE PROJECTS

The 54th Meeting of the reconstituted Expert Appraisal Committee (T) was held during **September 10-12, 2009** at India Islamic Cultural Centre, Lodi Road, New Delhi. The list of Members present is given below.

1. Shri Balraj	- Chairman
2. Dr. C.R. Babu	- Member
3. Shri V.K. Singh	- Member
4. Dr. Arijit Dey	- Member
5. Shri M.S.Puri	- Member
6. Dr. B. Sudhakara Reddy	- Member
7. Dr. S.K. Paliwal	- Member
8. Shri T.K. Dhar	- Member
9. Prof. R.V. Rama Rao	- Member
10. Sh. K. Gowrappan	- Member
11. Dr. S.D. Attri	- Member
12. Dr. Lalit Kapur -	- Member Secretary

In attendance: Sh. W. Bharat Singh, Dy. Director, MoEF. The deliberations held and the decisions taken are given as under:

Date: 10.09.2009

Item No. 1: Confirmation of the minutes of 52nd Meeting.

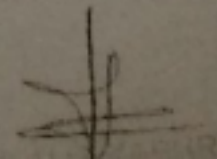
The Chairman welcomed the new Deputy Director, Shri W. Bharat Singh and acknowledged the services rendered by Shri Om Prakash, Dy. Director, MoEF. Thereafter, discussion on each of the agenda items was taken up seriatim.

The minutes of the 52nd Meeting of the EAC held on August 10-11, 2009 were confirmed with minor corrections.

Item No. 2: CONSIDERATION OF PROJECTS

2.1 3x150 MW Thermal Power Plant at village Hankon, in Karwar Taluk, in Uttara Kannada District, in Karnataka of M/s Ind-Barath Ltd - reg. Environmental Clearance.

The proposal was earlier considered by the Committee in its 38th Meeting held during January 12-13, 09. The Committee desired detailed additional information / clarification on certain issues and was accordingly deferred for re-consideration. On submission of the clarifications sought, the matter was



- (b) If not, then by when is that expected?
- (c) Has PDD (Project Design Document) been prepared?
- (d) What is the Carbon intensity from your electricity generation projected (i.e. CO₂ Tons/MWH or Kg/KWH)
- (e) Amount of CO₂ in Tons/year expected to be reduced from the baseline data available on the CEA's web-site (www.cea.nic.in)

2. Notwithstanding 1(ii) above, data on (d) & (e) above to be worked out and reported.

After preparing the draft EIA (as per the generic structure prescribed in Appendix-III of the EIA Notification, 2006) covering the above mentioned issues, the proponent will get the public hearing conducted and take further necessary action for obtaining environmental clearance in accordance with the procedure prescribed under the EIA Notification, 2006.

2.13 2x77 MW coal based power plant of M/s OPG Power Generation Pvt. Ltd. at village Peria Obulapuram and Papankuppam, in Gummidipondi Taluk, in Thiruvallur Distt., in Tamil Nadu-Reg. Amendment of Environmental Clearance.

The proposal was earlier proposed to be run on 100% imported coal. Environmental clearance of the proposal was accorded by the Ministry vide its letter no. J-13011/81/2007-IA.II(T) dated 31.03.2008. The project proponent has requested for amendment of the aforesaid environmental clearance conditions at Para No.3 (ii) and (v) of the read as below:

- (ii) Sulphur and ash contents in the coal to be used in the project shall not exceed 1.2% and 15% respectively.
- (iii) Coal transportation will be done by rail up to Gummidipoondi Railway Station and thereafter by the road.

The proponent informed the EAC that they would like to go for imported and indigenous coal in the ratio of 50:50. It was also informed that coal linkage has been obtained from the Ministry of Coal and also provided a copy of assurance letter from the said Ministry. The proponent further committed that 100% Fly ash and Bottom ash utilization will be made from day one and that only washed coal will be used. The project proponent explained that with the proposed blending SO₂ reduction will be made and hence lesser impact on account proposed blending of indigenous coal.

Regarding transportation by rail, the project proponent submitted that local people have always been agitating against unloading/loading of coal at Gummidipoondi Railway station which has the railway siding. This shall constraint fuel supply and hence the request for amendment of condition (v). It was also informed that the site is only 2 km away from NH-5 and the



increase in traffic density due to proposed change in mode of transportation will be insignificant.

The EAC deliberated on the matter and noted that the request of the project proponent for utilization of 50% indigenous coal can be agreed and accordingly environmental condition (ii) above can be waived off. Regarding transportation by trucks the EAC was of the opinion that the same can also be considered provided the trucks used for transportation of coal are of mechanically covered trucks and no spillage of ores/fines are made.

The EAC also decided that CSR component of the project proponent for the said project shall be Rs 2.0 Crores as one time capital investment and Rs 0.40 Crore as recurring expenditure yearly.

Stack & AAQ Real time data's display @ Gate

	OPG Power Generation Pvt Ltd., 2 x 77, 1 x 80, 1 x 180 MW TPP	Doc No: OPGPG/EHS / LED / 01			
Doc title	LED Display Board	Rev No.	1	Rev Dt.	08.07.2024

- Stack & ambient Pollutant levels has been displayed at Gate



APC & FC measures at coal handling area

Doc title

APC & FC measures at Coal Handling

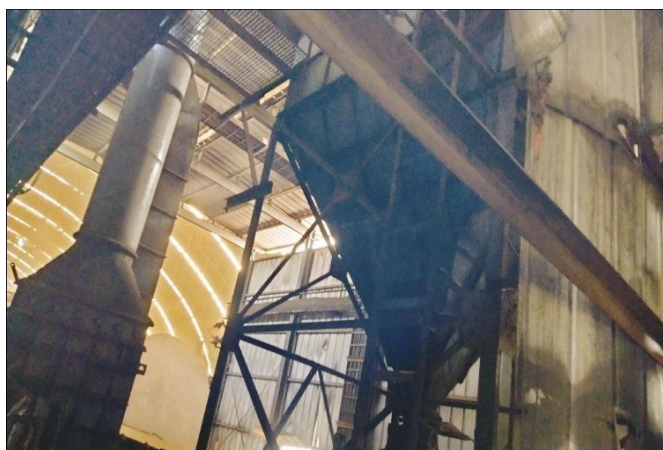
27.05.2021

DES systems Location

- BC 3 to BC 2A
- BCN 4A
- BCN 5 (BCN 4B)
- BCN 8A & 8B
- BCN 9A & 9B
- Units 1234 Bunker floor

Air Pollution control measures

**Dust Extraction System @ Coal shed # 2
Stacking area**



**Dust Suppression System @ Coal Shed
#2 stacking area**



Fog Canon @ Coal Unloading



Water Sprinkler system at Coal movement



Doc title

APC & FC measures at Coal Handling

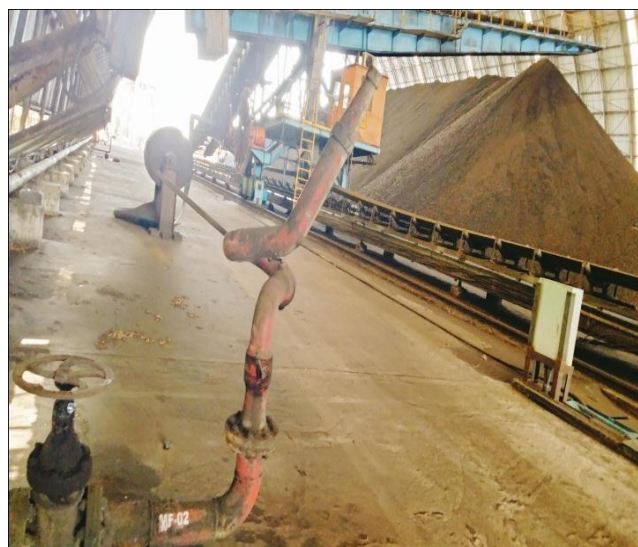
27.05.2021

Fire control measures

Fire Hydrant



Fire Monitor



Fire Extinguishers



First Aid & Sanitation Arrangements

	OPG Power Generation Pvt Ltd., 2 x 77, 1 x 80, 1 x 180 MW TPP	Doc No: OPGPG/EHS /Cont./ FA / 01			
Doc title	First Aid & Sanitation Arrangements	Rev No.	1	Rev Dt.	27.05.2021

First Aid & Sanitation Arrangements for Contractors & Drivers

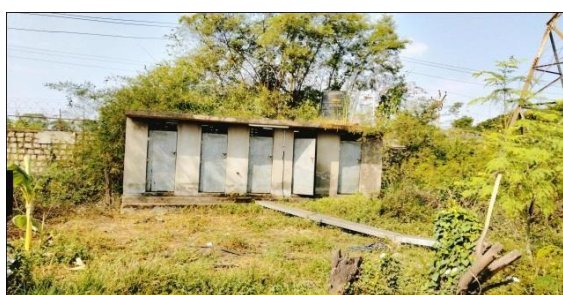
- First aid center is being functional with Ambulance
- A doctor has been provided at site regularly.

First Aid Centre



- Sanitation arrangements made while construction periods and it is being functional with hygienic

Sanitation Arrangement's for Drivers & Contractors



SPM Compliance Status for Oct 2024 to March 2025



OPG Power Generation Private Limited

OPGPG/0/OPN/EHS/SPM/01

SPM Compliance Status

FY 2025-26

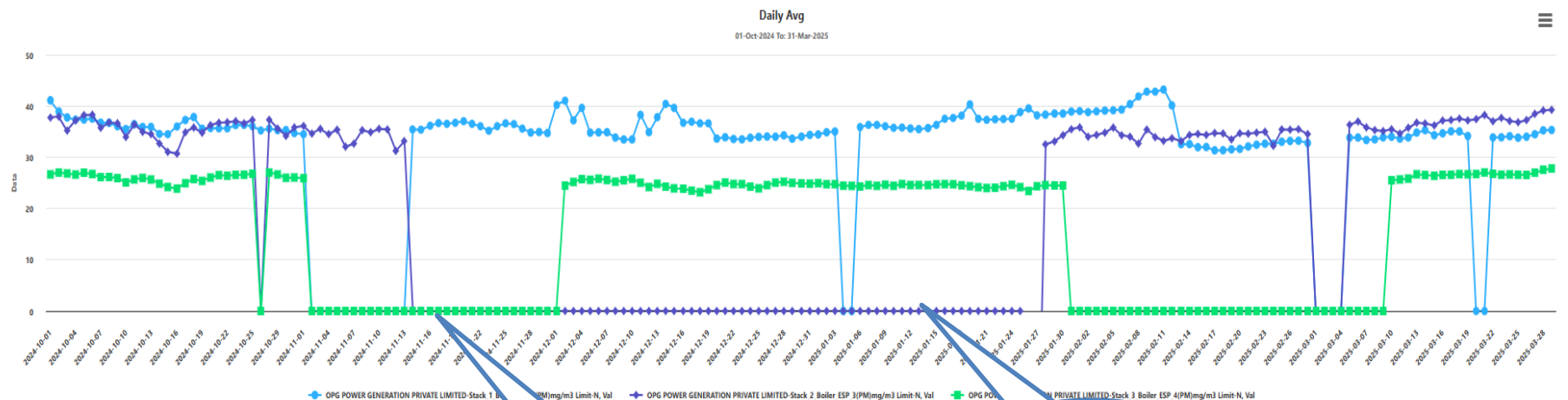
SPM Compliance status of October 2024 to March 2025

Average Report Configuration

State(s)
(1) 1 selectedCategory(ies)
(1) 1 selectedStations
(6) 4 selectedCity(ies)
(1) 1 selectedIndustry(ies)
(1) 1 selectedParameter
(12) 3 selectedReport Format
1 selectedCriteria:
DailyFrom Date:
2024-10-01 00:00To Date :
2025-03-31 12:00[Generate Report](#)

Average Report

Industry	Category	Industry Code	Station	Parameter	Avg Period	From Date	To Date
OPG POWER GENERATION PRIVAT...	POWER PLANTS	13TN250	Stack_1_Boiler_ESP_2,Stack_2_Boil...	(PM), (PM), (PM)	Daily Avg	01-Oct-2024	31-Mar-2025

[View Line Graph](#)[View Bar Graph](#)[View Table](#)

Ground Water Quality Sustainability

	OPG Power Generation Pvt Ltd., 2 x 77, 1 x 80, 1 x 180 MW TPP	Doc No: OPGPG/0/OPN/EHS /GW / 02			
Doc title	Ground Water quality comparison with Base data	Rev No.	1	Rev Dt.	06.05.2021

Ground Water quality comparisons with Base Data

Ground Water Quality (Heavy metals) comparison with Base Data											
Sampling date	Jan - March 2007			07.08.2015	20.04.2019	25.01.2020			05.11.2020		
Sampling By	Amba Recycler Private Limited for EIA study			TNPCCB	Chennai Testing Laboratory	Chennai Testing Laboratory			Chennai Testing Laboratory		
Reference	OPGPG :ED:1951/1451/2011-12 Dt 20.09.2011			VP 603 -606	CTL/CH/N 1556 /2019-20 Dt 20.04.2019	CTL/CH/N 26476 /2020-21 Dt 04.02.2020			CTL/CH/N 7632 /2020-21 Dt 12.11.2020		
Location -	Chinna Obulapuram	Gummidip oondi	Periya obulapur am	Phase 1 (6) & Phase II (1,4,8)	Phase I (1 -6) & Phase II (1 -10)	BW 04	BW 05	BW 09	BW 10	BW 06	BW 07
Mercury (as Hg mg/l)	BDL	BDL	BDL	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (Cr mg/l)	BDL	BDL	BDL	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Arsenic (As mg/l)	BDL	BDL	BDL	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Lead (Pb mg/l)	0.03	0.03	0.04	< 0.0015	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Ground Water Quality (Heavy metals) comparison with Base Data																
Sampling date	13.07.2021															
Sampling By	Chennai Testing Laboratory															
Reference	CTL/CH/N - 3147 /2021-22 Dt 23.07.2021															
Location -	PI BW 01	PI BW 02	PI BW 03	PI BW 04	PI BW 05	PI BW 06	PII BW 01	PII BW 02	PII BW 03	PII BW 04	PII BW 05	PII BW 06	PII BW 07	PII BW 08	PII BW 09	PII BW 10
Mercury (as Hg mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (Cr mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic (As mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Lead (Pb mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Ground Water Quality (Heavy metals)				
Sampling date	22.01.2022			
Sampling By	Chennai Testing Laboratory			
Reference	CTL/CH/N - 26827 /2021-22 Dt 01.02.2022			
Location -	PI BW 01		PI BW 04	PII BW 06
Mercury (as Hg mg/l)	BDL		BDL	BDL
Chromium (Cr mg/l)	BDL		BDL	BDL
Arsenic (As mg/l)	BDL		BDL	BDL
Lead (Pb mg/l)	BDL		BDL	BDL

Ground Water Quality (Heavy metals)				
Sampling date	06.05.2022			
Sampling By	Chennai Testing Laboratory			
Reference	CTL/CH/N – 01972-01975/2022-23 Dt 16.05.2022			
Location -	PI BW 01		PI BW 04	PII BW 06
Mercury (as Hg mg/l)	BDL		BDL	BDL
Chromium (Cr mg/l)	BDL		BDL	BDL
Arsenic (As mg/l)	BDL		BDL	BDL
Lead (Pb mg/l)	BDL		BDL	BDL



OPG Power Generation Pvt Ltd.,
2 x 77, 1 x 80, 1 x 180 MW TPP

Doc No: OPGPG/0/OPN/EHS /GW / 02

Doc title	Ground Water quality comparison with Base data	Rev No.	1	Rev Dt.	06.05.2021
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Ground Water Quality (Heavy metals)				
Sampling date	27.06.2022			
Sampling By	Chennai Testing Laboratory			
Reference	CTL/CH/N – 05178-05181/2022-23 Dt 06.07.2022			
Location -	PI BW 04	PII BW 05	PII BW 07	PII BW 08
Mercury (as Hg mg/l)	BDL	BDL	BDL	BDL
Chromium (Cr mg/l)	BDL	BDL	BDL	BDL
Arsenic (As mg/l)	BDL	BDL	BDL	BDL
Lead (Pb mg/l)	BDL	BDL	BDL	BDL

Ground Water Quality (Heavy metals)				
Sampling date	19.07.2023			
Sampling By	RE Sustainability IWM Solutions Limited			
Reference	RSIWMSL/CONR/23-24/0101-0104			
Location -	PI BW 01	PII BW 04	PII BW 05	PII BW 08
Mercury (as Hg mg/l)	BDL	BDL	BDL	BDL
Chromium (Cr mg/l)	BDL	BDL	BDL	BDL
Arsenic (As mg/l)	BDL	BDL	BDL	BDL
Lead (Pb mg/l)	BDL	BDL	BDL	BDL

Ground Water Quality (Heavy metals)				
Sampling date	03.04.2024			
Sampling By	Chennai Testing Laboratory			
Reference	CTL/CH/N-20197 – 20200/2024-25			
Location -	PI BW 01	PI BW 04	PI BW 06	PII BW 07
Mercury (as Hg mg/l)	BDL	BDL	BDL	BDL
Chromium (Cr mg/l)	BDL	BDL	BDL	BDL
Arsenic (As mg/l)	BDL	BDL	BDL	BDL
Lead (Pb mg/l)	BDL	BDL	BDL	BDL

Ground Water Quality (Heavy metals)				
Sampling date	06.11.2024			
Sampling By	RE Sustainability IWM Solutions Limited			
Reference	RSIWMSL/CONR/24-25/597,598,600&601			
Location -	PI BW 01	PI BW 04	PI BW 06	PII BW 07
Mercury (as Hg mg/l)	BDL	BDL	BDL	BDL
Chromium (Cr mg/l)	BDL	BDL	BDL	BDL
Arsenic (As mg/l)	BDL	BDL	BDL	BDL
Lead (Pb mg/l)	BDL	BDL	BDL	BDL

Ground Water Quality (Heavy metals)				
Sampling date	06.11.2024			
Sampling By	RE Sustainability IWM Solutions Limited			
Reference	RSIWMSL/CONR/24-25/597,598,600&601			
Location -	PI BW 01	PI BW 04	PI BW 06	PII BW 07
Mercury (as Hg mg/l)	BDL	BDL	BDL	BDL
Chromium (Cr mg/l)	BDL	BDL	BDL	BDL
Arsenic (As mg/l)	BDL	BDL	BDL	BDL
Lead (Pb mg/l)	BDL	BDL	BDL	BDL



OPG Power Generation Pvt Ltd.,
2 x 77, 1 x 80, 1 x 180 MW TPP

Doc No: OPGPG/0/OPN/EHS /GW / 02

Doc title	Ground Water quality comparison with Base data	Rev No.	1	Rev Dt.	06.05.2021
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BOREWELL WATER SAMPLES -January - 2025										
S.No	Sample Details	pH	EC (µS/cm)	Silica as SiO ₂ (mg/l)	Total Suspended Solids (mg/l)	Total Alkanity (mg/l)	Total Hardness as CaCO ₃ (mg/l)	Calcium Hardness as CaCO ₃ (mg/l)	Magensium Hardness as CaCO ₃ (mg/l)	Chloride as Cl mg/l)
	BOREWELL -ID									
1	P-I- BW.No-1	8.62	1045	75	2	280	170	50	120	124
2	P-I- BW.No-2	7.94	599	75	1	200	130	65	65	28
3	P-I- BW.No-3	7.22	975	79	1	350	200	140	60	78
4	P-I- BW.No-4	7.64	1471	78	1	250	290	160	130	213
5	P-I- BW.No-5	Sample not received due to Pump not available								
6	P-I- BW.No-6	7.82	1020	67	1	325	195	105	90	71
7	P-II- BW.No-1	Sample not received due to Pump not available								
8	P-II- BW.No-2	8.33	680	78	1	175	125	75	50	71
9	P-II- BW.No-3	7.14	1025	38	4	390	210	100	110	89
10	P-II- BW.No-4	8.03	969	64	2	285	215	100	115	57
11	P-II- BW.No-5	8.64	539	85	3	200	100	35	65	50
12	P-II- BW.No-6	8.45	576	77	1	200	100	70	30	39
13	P-II- BW.No-7	8.85	440	83	2	190	105	50	55	50
14	P-II- BW.No-8	7.30	873	78	2	285	210	115	95	96
15	P-II- BW.No-9	Sample not received due to Pump not available								
16	P-II- BW.No-10	7.35	816	82	1	330	185	90	95	64
17	50 Feet PZM Store	8.48	1267	67	8	435	155	50	105	149
18	50 Feet PZM Open Coal Yard	6.88	1498	42	2	285	335	180	155	252
19	50 Feet PZM Labour Shed	7.39	936	51	1	380	250	155	95	32
20	200 Feet PZM Store	7.87	2365	20	9	330	340	125	215	461
21	200 Feet PZM Open Coal Yard	8.53	3298	57	2	430	140	60	80	769
22	200 Feet PZM Labour Shed	8.20	895	26	4	390	130	60	70	53