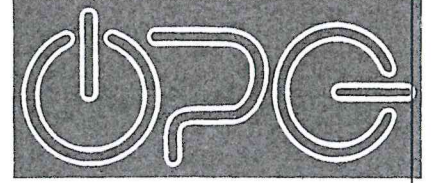


Gummudipundi SO 601201
ET196000047IN, IVR No1: 6984196000047
18-12-2025 11:24:03, Counter No. 1,
To: THE JOINT DIRECTOR
BANGALORE, BENGALURU, 560034
From: OPG POWER GENERATION PVT LTD
GPD, THIRUVAL, 601201
Base Amt: 75.00, CGST:7.00, SGST:7.00
To: THE JOINT DIRECTOR
P.Mode: Cash
POD:No, www.indiapost.gov.in



OPG POWER GENERATION PVT. LTD.
CIN : U40109TN2005PTC055442

OPGPG/EHS /2025-26/611

15th December 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: April 2025 to September 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. NoJ-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 April 2025 to September 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.

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 – April 2025 to September 2025.
6. Bore well water Analysis report – April 2025 to September 2025.
7. Ambient Noise level Monitoring - April 2025 to September 2025.
8. CSR Activities - April 2025 to September 2025
9. Form V(Environmental Statement) FY 2025-26
10. TNCB AAQ, Stack & Noise Level Monitoring Survey FY 2025-26
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
- 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
- Ground Water Quality sustainability

CC: The District Environmental Engineer, Gummidipoondi without Annexures.

MoEF Half Yearly returns

(April 2025 – September 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 September 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 30.09.2025
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 30.09.2025
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 NO_x (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 30.09.2025
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 30.09.2025
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

(April 2025 to September 2025)



MONTHLY FLY ASH AND BOTTOM ASH
GENERATION, UTILIZATION DETAILS

April 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 April 2025

1	Quantity of Blended coal used during this Month	1,77,655.92 MT
2	Average ash content in the coal	8.9364599 %
3	Generation of Fly ash	12,700.92 MT
4	Generation of Bottom Ash	3,175.23 MT

ASH DISPOSAL

Fly Ash

1	To Cement Industries	12,700.92 MT
2	To Brick Industries	NIL
3	Total disposal of Fly ash	12,700.92 MT

Bottom Ash

1	To Brick Industries	3,175.23 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	Sri sai Transport KPR
2	Om Vinayaga Traders	16	Cheliyan Enterprises
3	Padmavathi Traders	17	Kamalakannan Enterprises
4	Sri Mookambika Bricks and Blocks	18	Ultra Tech Cements Limited (Reddipalayam)
5	Sri Praveen Enterprises	19	CMR Transport
6	Sun Rock Industry	20	Goodwin Flyash Bricks
7	The Ramco Cements Limited	21	K.N.Ravikumar
8	DKR Enterprises	22	Sai Agencies
9	Sri Sakthi Enterprises(Deptor)	23	Sri Flyash Bricks & Paving Blocks
10	Chettinad Cement	24	SN Suppliers
11	RKC Enterprises	25	Lakshmipathy Enterprises
12	N.S.Enterprises	26	IK Enterprises
13	Dalmia Cement Ariyalur	27	IWL India Private Limited
14	Jayachandran	28	Sri Ram Construction

Bottom Ash sent to the following Industries

1. Krishna Enterprises
2. P.Nesakumar (Deptor)

	MONTHLY FLY ASH AND BOTTOM ASH GENERATION, UTILIZATION DETAILS	May 2025
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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	Nil
	Bottom Ash	Nil	Nil

ASH GENERATION for the month of May 2025

1	Quantity of Blended coal used during this Month	1,82,642 MT
2	Average ash content in the coal	14.026752 %
3	Generation of Fly ash	20,494.99 MT
4	Generation of Bottom Ash	5,123.75 MT

ASH DISPOSAL

Fly Ash

1	To Cement Industries	20,494.99 MT
2	To Brick Industries	NIL
3	Total disposal of Fly ash	20,494.99 MT

Bottom Ash

1	To Brick Industries	5,123.75 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	17	Kamalakannan Enterprises
2	Om Vinayaga Traders	18	Ultra Tech Cements Limited (Reddipalayam)
3	Padmavathi Traders	19	CMR Transport
4	Sri Mookambika Bricks and Blocks	20	Goodwin Flyash Bricks
5	Sri Praveen Enterprises	21	K.N.Ravikumar
6	Sun Rock Industry	22	Sai Agencies
7	The Ramco Cements Limited	23	Sri Flyash Bricks & Paving Blocks
8	DKR Enterprises	24	SN Suppliers
9	Sri Sakthi Enterprises(Deptor)	25	Lakshmipathy Enterprises
10	Chettinad Cement	26	IK Enterprises
11	RKC Enterprises	27	IWL India Private Limited
12	N.S.Enterprises	28	Sri Ram Construction
13	Dalmia Cement Ariyalur	29	Dalmia Cement Trichy
14	Jayachandran	30	Kanniamman Enterprises
15	Sri sai Transport KPR	31	Ultra Tech Cements Limited (Arakkonam)
16	Cheliyan Enterprises	32	Thirumalai Agencies

Bottom Ash sent to the following Industries

1. Krishna Enterprises (Debtor)
2. Raj Enterprises (Debtor)
3. Sri Sakthi Enterprises (Debtor)



MONTHLY FLY ASH AND BOTTOM ASH GENERATION, UTILIZATION DETAILS

June 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 June 2025

1	Quantity of Blended coal used during this Month	1,75,958 MT
2	Average ash content in the coal	6.91347 %
3	Generation of Fly ash	9,731.84 MT
4	Generation of Bottom Ash	2,432.96 MT

ASH DISPOSAL

Fly Ash

1	To Cement Industries	9,731.84 MT
2	To Brick Industries	NIL
3	Total disposal of Fly ash	9,731.84 MT

Bottom Ash

1	To Brick Industries	2,432.96 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	17	CMR Transport
2	Om Vinayaga Traders	18	Goodwin Flyash Bricks
3	Padmavathi Traders	19	Sai Agencies
4	Sri Mookambika Bricks and Blocks	20	Sri Flyash Bricks & Paving Blocks
5	Sri Praveen Enterprises	21	SN Suppliers
6	The Ramco Cements Limited	22	Lakshmipathy Enterprises
7	DKR Enterprises	23	IK Enterprises
8	Sri Sakthi Enterprises(Deptor)	24	IWL India Private Limited
9	Chettinad Cement	25	Sri Ram Construction
10	RKC Enterprises	26	Dalmia Cement Trichy
11	N.S.Enterprises	27	Kanniamman Enterprises
12	Jayachandran	28	Ultra Tech Cements Limited (Arakkonam)
13	Sri sai Transport KPR	29	Thirumalai Agencies
14	Cheliyan Enterprises	30	P.S.Interlocking Bricks
15	Kamalakaran Enterprises	31	SRR Transport
16	Ultra Tech Cements Limited (Reddipalayam)		

Bottom Ash sent to the following Industries

1. Krishna Enterprises (Debtor)
2. Sri Sakthi Enterprises (Debtor)



MONTHLY FLY ASH AND BOTTOM ASH GENERATION, UTILIZATION DETAILS

July 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 July 2025

1	Quantity of Blended coal used during this Month	1,39,071 MT
2	Average ash content in the coal	7.76445 %
3	Generation of Fly ash	8,638.48 MT
4	Generation of Bottom Ash	2,159.62 MT

ASH DISPOSAL

Fly Ash

1	To Cement Industries	8,638.48 MT
2	To Brick Industries	NIL
3	Total disposal of Fly ash	8,638.48 MT

Bottom Ash

1	To Brick Industries	2,159.62 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	19	Sri Flyash Bricks & Paving Blocks
2	Om Vinayaga Traders	20	SN Suppliers
3	Padmavathi Traders	21	Lakshmi Pathy Enterprises
4	Sri Mookambika Bricks and Blocks	22	IK Enterprises
5	Sri Praveen Enterprises	23	IWL India Private Limited
6	The Ramco Cements Limited	24	Sri Ram Construction
7	DKR Enterprises	25	Dalmia Cement Ariyalur
8	Sri Sakthi Enterprises (Deptor)	26	Ultra Tech Cements Limited (Arakkonam)
9	Chettinad Cement	27	Thirumalai Agencies
10	RKC Enterprises	28	P.S. Interlocking Bricks
11	N.S. Enterprises	29	SRR Transport
12	Jayachandran	30	Hevin Agencies
13	Sri Sai Transport KPR	31	K.N. Ravikumar
14	Cheliyan Enterprises	32	KRS Flyash Bricks
15	Kamalakkannan Enterprises	33	RK Sai Enterprises
16	Ultra Tech Cements Limited (Reddipalayam)	34	Sun Rock Industry
17	CMR Transport	35	Vikraam Enterprises
18	Sai Agencies		

Bottom Ash sent to the following Industries

1. Krishna Enterprises (Debtor)
2. Sri Sakthi Enterprises (Debtor)
3. Raj Enterprises (Debtor)



MONTHLY FLY ASH AND BOTTOM ASH GENERATION, UTILIZATION DETAILS

August 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 August 2025

1	Quantity of Blended coal used during this Month	1,25,276 MT
2	Average ash content in the coal	16.81054 %
3	Generation of Fly ash	16,847.66 MT
4	Generation of Bottom Ash	4,211.91 MT

ASH DISPOSAL

Fly Ash

1	To Cement Industries	16,847.66 MT
2	To Brick Industries	NIL
3	Total disposal of Fly ash	16,847.66 MT

Bottom Ash

1	To Brick Industries	4,211,915 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	20	SN Suppliers
2	Om Vinayaga Traders	21	Lakshmipathy Enterprises
3	Padmavathi Traders	22	IK Enterprises
4	Sri Mookambika Bricks and Blocks	23	IWL India Private Limited
5	Sri Praveen Enterprises	24	Sri Ram Construction
6	The Ramco Cements Limited	25	Dalmia Cement Ariyalur
7	DKR Enterprises	26	Dalmia Cement Trichy
8	Sri Sakthi Enterprises(Deptor)	27	Ultra Tech Cements Limited (Arakkonam)
9	Chettinad Cement	28	P.S.Interlocking Bricks
10	RKC Enterprises	29	SRR Transport
11	N.S.Enterprises	30	Hevin Agencies
12	Jayachandran	31	K.N. Ravikumar
13	Sri sai Transport KPR	32	KRS Flyash Bricks
14	Cheliyan Enterprises	33	RK Sai Enterprises
15	Kamalakkannan Enterprises	34	Sun Rock Industry
16	Ultra Tech Cements Limited (Reddipalayam)	35	Vikraam Enterprises
17	CMR Transport	36	Annamalaiyar Enterprises
18	Sai Agencies	37	Eswari Infraa
19	Sri Flyash Bricks & Paving Blocks	38	Kanniamman Enterprises

Bottom Ash sent to the following Industries

1. Krishna Enterprises (Debtor)
2. Sri Sakthi Enterprises (Debtor)



MONTHLY FLY ASH AND BOTTOM ASH GENERATION, UTILIZATION DETAILS

September 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 September 2025

1	Quantity of Blended coal used during this Month	1,32,552 MT
2	Average ash content in the coal	26.28771 %
3	Generation of Fly ash	27,875.91 MT
4	Generation of Bottom Ash	6,968.98 MT

ASH DISPOSAL

Fly Ash

1	To Cement Industries	27,875.91 MT
2	To Brick Industries	NIL
3	Total disposal of Fly ash	27,875.91 MT

Bottom Ash

1	To Brick Industries	6,968.98 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	21	Lakshmipathy Enterprises
2	Om Vinayaga Traders	22	IK Enterprises
3	Padmavathi Traders	23	IWL India Private Limited
4	Sri Mookambika Bricks and Blocks	24	Sri Ram Construction
5	Sri Praveen Enterprises	25	Dalmia Cement Ariyalur
6	The Ramco Cements Limited	26	Ultra Tech Cements Limited (Arakkonam)
7	DKR Enterprises	27	P.S.Interlocking Bricks
8	Sri Sakthi Enterprises(Deptor)	28	Hevin Agencies
9	Chettinad Cement	29	K.N. Ravikumar
10	RKC Enterprises	30	KRS Flyash Bricks
11	N.S.Enterprises	31	RK Sai Enterprises
12	Jayachandran	32	Sun Rock Industry
13	Sri sai Transport KPR	33	Vikraam Enterprises
14	Cheliyan Enterprises	34	Kanniamman Enterprises
15	Kamalakkannan Enterprises	35	Ashtek (India) Pvt Ltd
16	Ultra Tech Cements Limited (Reddipalayam)	36	Venkateswara Concreate Bricks
17	CMR Transport	37	Sree Varu Enterprises
18	Sai Agencies	38	Sri Arthi Transport
19	Sri Flyash Bricks & Paving Blocks	39	Thirumala Agencies
20	SN Suppliers		

Bottom Ash sent to the following Industries

1. Krishna Enterprises (Debtor)
2. Sri Sakthi Enterprises (Debtor)
- 3.Raj Enterprises
- 4.P.Nesakumar

Bore well Analysis Report

(April 2025 to September 2025)

	OPG Power Generation Pvt Ltd.,	Doc.No - OPGPG/0/OPN/EHS /BW/ 04
	Bore well Analysis	FY 2025-26

BORE WELL WATER ANALYSIS

April - 2025

BOREWELL WATER SAMPLES - April - 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	7.12	671	76	2	402	188	98	90	102
2	P-I- BW.No-2	7.15	1182	71	1	256	206	52	154	47
3	P-I- BW.No-3	7.19	944	80	1	286	230	104	126	62
4	P-I- BW.No-4	7.21	1163	71	1	306	256	110	146	132
5	P-I- BW.No-5	7.26	1246	72	1	352	188	56	132	128
6	P-I- BW.No-6	7.22	1128	76	1	378	196	92	104	
7	P-II- BW.No-1	xxxxxxxx-- Sample Not Received ----- xxxxxxxxxxxx								
8	P-II- BW.No-2	7.08	833	78	2	236	178	52	126	79
9	P-II- BW.No-3	7.42	989	62	1	320	216	106	110	81
10	P-II- BW.No-4	7.15	1116	80	1	372	228	92	136	76
11	P-II- BW.No-5	7.12	762	78	1	344	236	80	156	49
12	P-II- BW.No-6	7.20	812	76	1	256	166	78	88	51
13	P-II- BW.No-7	6.83	598	81	1	240	122	66	56	53
14	P-II- BW.No-8	7.11	943	67	2	278	222	120	102	102
15	P-II- BW.No-9	7.35	641	70	1	244	174	72	102	38
16	P-II- BW.No-10	7.31	768	79	1	328	226	72	154	59
17	50 Feet PZM Store	7.33	993	68	1	328	282	48	234	155
18	50 Feet PZM Open Coal Yard	6.98	1413	59	1	318	334	176	158	149
19	50 Feet PZM Labour Shed	7.01	892	72	1	388	256	132	124	32
20	200 Feet PZM Store	7.29	1088	12	2	152	232	92	140	58
21	200 Feet PZM Open Coal Yard	7.81	3327	61	1	468	142	62	80	696
22	200 Feet PZM Labour Shed	8.23	944	36	1	376	124	46	78	83

May - 2025

BOREWELL WATER SAMPLES - May - 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	7.81	956	71	1	315	192	78	114	92
2	P-I- BW.No-2	7.89	711	76	1	245	166	96	70	38
3	P-I- BW.No-3	7.22	982	81	1	345	222	126	96	73
4	P-I- BW.No-4	7.39	1246	86	1	255	236	128	108	132
5	P-I- BW.No-5	7.13	1358	73	3	390	218	92	126	155
6	P-I- BW.No-6	7.28	1036	79	1	360	208	108	100	86
7	P-II- BW.No-1	xxxxxxxx-- Sample Not Received ----- xxxxxxxxxxxx								
8	P-II- BW.No-2	7.18	721	86	1	200	146	98	48	68
9	P-II- BW.No-3	7.46	996	71	1	340	236	108	128	82
10	P-II- BW.No-4	7.28	1086	77	1	360	226	108	118	71
11	P-II- BW.No-5	7.79	772	88	2	300	198	96	102	48
12	P-II- BW.No-6	7.23	801	89	1	285	188	120	68	49
13	P-II- BW.No-7	6.86	615	96	1	210	132	72	60	42
14	P-II- BW.No-8	7.17	939	88	1	290	196	118	78	101
15	P-II- BW.No-9	7.38	602	63	2	220	256	138	118	56
16	P-II- BW.No-10	7.88	755	80	1	320	206	98	108	51
17	50 Feet PZM Store	7.51	1314	77	1	350	188	86	102	155
18	50 Feet PZM Open Coal Yard	6.93	1549	46	3	300	328	224	104	148
19	50 Feet PZM Labour Shed	7.20	839	51	3	360	226	128	98	32
20	200 Feet PZM Store	7.16	381	10	5	75	76	46	30	67
21	200 Feet PZM Open Coal Yard	8.01	3429	58	2	455	148	58	90	711
22	200 Feet PZM Labour Shed	7.86	944	33	1	390	132	78	54	56

	OPG Power Generation Pvt Ltd.,	Doc.No - OPGPG/0/OPN/EHS /BW/ 04
	Bore well Analysis	FY 2025-26

June - 2025

BOREWELL WATER SAMPLES -June - 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)	Magensium Hardness as CaCO ₃ (mg/l)	Chloride as Cl mg/l)
1	P-I- BW.No-1	7.59	1145	68	1	270	158	40	118	113
2	P-I- BW.No-2	7.71	698	64	1	230	112	88	24	23
3	P-I- BW.No-3	7.42	858	68	1	310	132	112	20	62
4	P-I- BW.No-4	7.50	1110	74	2	252	275	180	95	204
5	P-I- BW.No-5	7.32	1177	86	1	310	225	112	113	82
6	P-I- BW.No-6	7.38	950	82	1	325	348	108	240	91
7	P-II- BW.No-1	7.75	1625	117	1	425	375	225	150	158
8	P-II- BW.No-2	7.60	989	60	1	225	164	100	64	79
9	P-II- BW.No-3	7.50	1006	69	1	350	228	80	148	77
10	P-II- BW.No-4	7.59	975	72	3	311	176	84	92	79
11	P-II- BW.No-5	7.50	705	72	1	305	308	96	212	48
12	P-II- BW.No-6	7.88	713	70	1	240	140	72	68	34
13	P-II- BW.No-7	7.68	582	69	1	210	148	60	88	45
14	P-II- BW.No-8	7.39	919	70	1	275	204	112	92	82
15	P-II- BW.No-9	7.42	592	60	2	215	245	128	117	48
16	P-II- BW.No-10	7.60	759	62	2	305	168	76	92	45
17	50 Feet PZM Store	7.46	1121	82	1	515	252	64	188	156
18	50 Feet PZM Open Coal Yard	7.02	1625	34	1	252	328	188	140	233
19	50 Feet PZM Labour Shed	7.20	964	55	1	435	368	124	244	17
20	200 Feet PZM Store	7.65	2168	14	2	170	200	116	84	244
21	200 Feet PZM Open Coal Yard	7.62	3224	55	4	440	136	60	76	766
22	200 Feet PZM Labour Shed	7.84	880	32	1	415	144	36	108	51

July - 2025

BOREWELL WATER SAMPLES -July - 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)	Magensium Hardness as CaCO ₃ (mg/l)	Chloride as Cl mg/l)
1	P-I- BW.No-1	7.30	1195	65	2	272	165	50	115	110
2	P-I- BW.No-2	7.26	734	60	1	210	172	65	107	32
3	P-I- BW.No-3	7.37	860	69	1	370	185	140	45	65
4	P-I- BW.No-4	7.26	1245	72	1	275	275	160	115	190
5	P-I- BW.No-5	7.35	1051	69	1	262	255	175	80	85
6	P-I- BW.No-6	7.26	991	77	1	305	185	105	80	78
7	P-II- BW.No-1	7.88	1752	102	1	355	265	110	155	105
8	P-II- BW.No-2	7.49	796	55	1	185	140	75	65	65
9	P-II- BW.No-3	6.96	1055	56	4	355	185	100	85	82
10	P-II- BW.No-4	7.36	1005	78	2	305	205	100	105	52
11	P-II- BW.No-5	7.21	788	70	3	215	108	35	73	48
12	P-II- BW.No-6	7.33	776	65	1	195	122	70	52	45
13	P-II- BW.No-7	7.01	594	72	2	185	115	50	65	55
14	P-II- BW.No-8	7.38	931	74	2	260	225	115	110	87
15	P-II- BW.No-9	7.63	598	68	1	210	210	105	105	68
16	P-II- BW.No-10	7.48	782	60	1	305	175	90	85	56
17	50 Feet PZM Store	7.23	1103	62	9	445	180	50	130	140
18	50 Feet PZM Open Coal Yard	6.80	1681	44	2	295	320	180	140	240
19	50 Feet PZM Labour Shed	7.21	970	55	1	390	230	155	75	34
20	200 Feet PZM Store	7.47	2060	22	10	315	315	125	190	448
21	200 Feet PZM Open Coal Yard	7.51	3348	52	2	445	170	60	110	752
22	200 Feet PZM Labour Shed	7.50	918	28	4	385	150	60	90	45

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

FY 2025-26

August - 2025

BOREWELL WATER SAMPLES - August - 2025

S.No	Sample Details	pH	EC (μ S/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)
	BOREWELL -ID									
1	P-I- BW.No-1	7.33	1280	66	2	114	208	102	106	110
2	P-I- BW.No-2	7.20	1768	59	1	92	152	110	42	78
3	P-I- BW.No-3	7.34	892	61	1	86	168	146	22	81
4	P-I- BW.No-4	7.47	1145	65	1	132	196	105	91	76
5	P-I- BW.No-5	7.17	1230	52	2	126	188	89	99	115
6	P-I- BW.No-6	7.43	1005	50	1	124	186	100	86	95
7	P-II- BW.No-1	Sample not received due to Pump not available								
8	P-II- BW.No-2	7.09	800	49	2	119	172	89	83	73
9	P-II- BW.No-3	7.10	1080	61	2	125	196	75	121	102
10	P-II- BW.No-4	7.20	975	72	0	124	188	106	82	110
11	P-II- BW.No-5	7.01	722	68	1	74	160	69	91	88
12	P-II- BW.No-6	7.06	808	60	1	69	136	100	36	92
13	P-II- BW.No-7	6.95	624	54	2	75	128	58	70	126
14	P-II- BW.No-8	7.34	922	48	2	122	184	98	86	131
15	P-II- BW.No-9	7.29	638	53	1	93	132	65	67	85
16	P-II- BW.No-10	7.21	880	57	3	119	180	82	98	69
17	50 Feet Piezometer Store	7.20	1120	36	3	147	172	80	92	140
18	50 Feet Piezometer Open Coal Yard	7.68	3350	40	4	176	160	68	92	126
19	50 Feet Piezometer Labour Shed	6.95	1070	42	3	149	188	105	83	110
20	200 Feet Piezometer Store	7.31	1680	27	10	164	184	95	89	138
21	200 Feet Piezometer Open Coal Yard	6.90	1780	31	7	152	220	110	110	105
22	200 Feet Piezometer Labour Shed	7.58	932	29	6	145	180	88	92	135

September-2025

BOREWELL WATER SAMPLES - September - 2025

S.No	Sample Details	pH	EC (μ S/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)
	BOREWELL -ID									
1	P-I- BW.No-1	7.33	1280	66	2	114	208	102	106	110
2	P-I- BW.No-2	7.20	1768	59	1	92	152	110	42	78
3	P-I- BW.No-3	7.34	892	61	1	86	168	146	22	81
4	P-I- BW.No-4	7.47	1145	65	1	132	196	105	91	76
5	P-I- BW.No-5	7.17	1230	52	2	126	188	89	99	115
6	P-I- BW.No-6	7.43	1005	50	1	124	186	100	86	95
7	P-II- BW.No-1	Sample not received due to Pump not available								
8	P-II- BW.No-2	7.09	800	49	2	119	172	89	83	73
9	P-II- BW.No-3	7.10	1080	61	2	125	196	75	121	102
10	P-II- BW.No-4	7.20	975	72	0	124	188	106	82	110
11	P-II- BW.No-5	7.01	722	68	1	74	160	69	91	88
12	P-II- BW.No-6	7.06	808	60	1	69	136	100	36	92
13	P-II- BW.No-7	6.95	624	54	2	75	128	58	70	126
14	P-II- BW.No-8	7.34	922	48	2	122	184	98	86	131
15	P-II- BW.No-9	7.29	638	53	1	93	132	65	67	85
16	P-II- BW.No-10	7.21	880	57	3	119	180	82	98	69
17	50 Feet Piezometer Store	7.20	1120	36	3	147	172	80	92	140
18	50 Feet Piezometer Open Coal Yard	7.68	3350	40	4	176	160	68	92	126
19	50 Feet Piezometer Labour Shed	6.95	1070	42	3	149	188	105	83	110
20	200 Feet Piezometer Store	7.31	1680	27	10	164	184	95	89	138
21	200 Feet Piezometer Open Coal Yard	6.90	1780	31	7	152	220	110	110	105
22	200 Feet Piezometer Labour Shed	7.58	932	29	6	145	180	88	92	135

	OPG Power Generation Pvt Ltd.,	Doc.No - OPGPG/0/OPN/EHS /BW/ 04
	Bore well Analysis	FY 2025-26

Ambient Noise Level Monitoring

(April 2025 to September 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 2025-26

AMBIENT NOISE LEVEL MONITORING - April 2025 to September 2025

April-2025

Ambient NOISE LEVEL (April - 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			
4-Apr-2024	46	44	47	44	34	33	36	35
11-Apr-2024	44	42	45	44	34	33	35	36
18-Apr-2024	44	41	45	44	35	36	35	34
25-Apr-2024	42	44	42	43	35	33	35	34

May-2025

Ambient NOISE LEVEL (May - 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			
2-May-2025	44	43	42	42	33	35	33	32
9-May-2025	42	42	44	44	34	35	33	33
16-May-2025	43	41	41	41	32	33	35	33
23-May-2025	44	42	43	43	34	34	34	33
30-May-2025	45	43	44	44	34	32	33	35

June-2025

Ambient NOISE LEVEL (June - 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			
6-Jun-2025	49	45	47	48	33	35	36	34
13-Jun-2025	45	44	47	44	36	33	35	36
20-Jun-2025	46	45	47	44	34	36	35	37
27-Jun-2025	45	48	44	47	35	36	33	37

	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 2025-26

July-2025

Ambient NOISE LEVEL (July - 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			
4-Jul-2025	48	44	48	45	37	33	37	33
11-Jul-2025	45	44	47	45	37	35	35	35
18-Jul-2025	45	45	44	47	34	36	35	35
25-Jul-2025	45	47	45	44	35	35	36	35

August-2025

Ambient NOISE LEVEL (August - 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			
1-Aug-2025	47	44	47	44	34	36	35	33
8-Aug-2025	45	45	47	44	36	35	36	35
15-Aug-2025	45	47	44	48	35	36	35	38
22-Aug-2025	45	47	48	44	35	36	37	35
29-Aug-2025	46	44	47	44	36	35	36	38

September-2025

Ambient NOISE LEVEL (September - 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			
5-Sep-2025	45	44	47	45	36	36	35	37
12-Sep-2025	47	45	44	46	35	36	37	38
19-Sep-2025	48	47	44	45	35	36	33	38
26-Sep-2025	47	45	44	47	35	39	35	36

CSR Activities

(April 2025 to September 2025)

PLANT - CSR EXPENDITURES FOR 2025 - 2026

CSR Schedule VII	Programme Name	Beneficiary Count	NFA referene								Expenses Type Monthly/ Annually	Total Expenses
				Apr-25	May-25	Jun-25	Jul-25	Aug-24	Sep-24	TOTAL		
promoting Education	PTA Teachers Salary (11 Teachers)	11		88,600.00	88,600.00	88,600.00	88,600.00	88,600.00	88,600.00	5,31,600.00	Monthly	₹ 5,31,600.00
promoting health care	SR Kandigai Wellness Center			1,18,000.00	1,18,000.00	1,18,000.00	1,18,000.00	1,18,000.00	1,18,000.00	7,08,000.00	Monthly	₹ 7,28,000.00
	Contribution for Free medical Camp	500		20,000.00						20,000.00	Annual	
Ensuring Environment Sustainability	Sampling of Native TREES (Periya Obulapuram)	200		10,000.00						10,000.00	Annual	₹ 10,000.00
Rural Development Projects	Toilet Anganwadi &Public Periya Obulapuram Plumbing work	500				72,020.00				72,020.00	Annual	₹ 6,86,020.00
	Periya Obulapuram Borewell	1000					3,07,000.00		3,07,000.00	6,14,000.00	Annual	
Training to Promote Rural Sports, nationally recognized sports	Nagaraja Kandigai Kabadi	50			80,000.00					80,000.00	Annual	₹ 2,35,750.00
	Periya Obulapuram Kabadi	50				30,000.00				30,000.00	Annual	
	Periya Obulapuram Cricket Tournament	50					30,000.00			30,000.00	Annual	
	Kayalarmedu Cricket Tournament	50					50,000.00			50,000.00	Annual	
	Elavur Kabadi Tournament	50						30,000.00		30,000.00		
	Madharpakkam School Zonal Food Parcel	300					15,750.00			15,750.00	Annual	
Eradicating hunger & poverty	Annadhanam (From 21.08.2023)			1,39,965.00	1,35,450.00	1,39,965.00	1,35,450.00	1,39,965.00	1,39,965.00	8,30,760.00	Monthly	₹ 28,85,278.00
	Periya Obulapuram Annadhanam (From 21.02.2024)			1,39,965.00	1,35,450.00	1,39,965.00	1,35,450.00	1,39,965.00	1,39,965.00	8,30,760.00	Monthly	
	Annadhanam III (Pethikuppam) 02.10.2024			82,805.00	83,527.00	83,076.00	82,850.00	91,157.00	88,042.00	5,11,457.00	Monthly	
	Annadhanam IV (Carlo Bhavan)			41,538.00	54,180.00	55,986.00	55,986.00	55,986.00	57,882.00	3,21,558.00	Monthly	
	LPG Gas Amount for Annadhanam			1,06,200.00	69,996.00	34,656.00	26,714.00	42,225.00	40,962.00	3,20,753.00	Monthly	
	Food Parcel supply to Police Sipcot	100					5,250.00			5,250.00	Annual	
	Food Parcel supply to Elavur Panchayat Office	200							11,550.00	11,550.00	Annual	
	Food Supply to Elavur Makkaludan Stalin Program	500(BF 200 Lunch 300)							26,940.00	26,940.00	Annual	
	Food supply to Thasildar Office (for CMFunction @Ponneri 18/04/2025)	500		26,250.00						26,250.00	Annual	
Total				7,73,323	7,65,203	7,62,268	10,51,050	7,05,898	10,18,906	50,76,648		₹ 50,76,648.00

Form – V (Environmental Statement)

FY 2024-25

भारतीय डाक
भारत सेवा - जगत सेवा



India Post
Dak Seva - Jagan Seva

RT740656607IH IVR:8284740656607

RL GUMMIDIFUNDI SD <601201>

Counter No:1,18/07/2025,13:04

To:THE MEMBER SECRETARY..

PIN:600032, Guindy Industrial Estate S.O

From:OPG POWER G,OPG NAGAR, OBULA

Wt:50gms,REG=17.0

Amt:37.76,Tax:5.76,Amt.Paid:38.00(Cash)

<Track on www.indiapost.gov.in>

<Dial 18002666868><Wear mask -Stay safe>

भारतीय डाक



India Post
Dak Seva - Jagan Seva

RT740656584IH IVR:8284740656584

RL GUMMIDIFUNDI SD <601201>

Counter No:1,18/07/2025,13:04

To:THE JOINT CHI..

PIN:600106, Arumbakkam S.O

From:OPG POWER G,OPG NAGAR, OBULA

Wt:50gms,REG=17.0

Amt:37.76,Tax:5.76,Amt.Paid:38.00(Cash)

<Track on www.indiapost.gov.in>

<Dial 18002666868><Wear mask -Stay safe>

भारतीय डाक



India Post
Dak Seva - Jagan Seva



OPG POWER GENERATION PVT. LTD.
CIN : U40109TN2005PTC055442

OPGPG: PCB/2024-25/Form-V/256

14th July 2025

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 2025, 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 2025.

Thanking you

Yours faithfully,

For **OPG POWER GENERATION PRIVATE LIMITED**

K.E. Kosalaraman
Plant Head



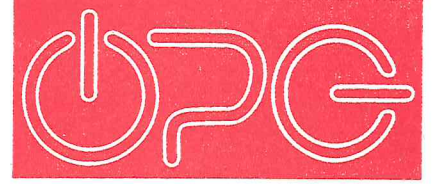
Copy to:

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@opgpower.com

Website : www.opgpower.com



OPG POWER GENERATION PVT. LTD.
CIN : U40109TN2005PTC055442

OPGPG: PCB/2024-25/Form-V/256

14th July 2025

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 2025, 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 2025.

Thanking you

Yours faithfully,

For **OPG POWER GENERATION PRIVATE LIMITED**

K.E.Kosalaraman
Plant Head

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.

FORM V

(Rule 14 of The Environment Protection 1986)

**ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR
ENDING on 31ST MARCH 2025****PART A**

(i)	Name and address of the owner/occupier of the industry, operation or process	Mr.K.E.Kosalaraman, Plant Head, OPG Power Generation Private Limited, Email : kosalaraman@opgpower.com, Mobile : +918754508605
(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	27 th September 2024

PART B

Water and Raw Material Consumption

(1) Water consumption m³/d

Process	549
Cooling	0*
Domestic	61.19

*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	0.052 litre/kwh - Unit 1 0.045 litre/kwh - Unit 2 0.064 litre/kwh - Unit 3 0.037 litre/kwh - Unit 4	0.064 litre/kwh - Unit 1 0.072 litre/kwh - Unit 2 0.057 litre/kwh - Unit 3 0.034 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	0.785 Kg/kwh - Unit 1 0.787 Kg/kwh - Unit 2 0.777 Kg/kwh - Unit 3 0.721 Kg/kwh - Unit 4	0.777 Kg/kwh - Unit 1 0.758 Kg/kwh - Unit 2 0.792 Kg/kwh - Unit 3 0.673 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)	0.0878 kg/day	pH 7.56 TSS 17.25 mg/l BOD 3.75 mg/l	Zero Percentage variation
(a) Air	SPM 0.6 MT/day SO ₂ 4.0 MT/day NO _x 2.7 MT/day	SPM 29.21 mg/Nm ³ SO ₂ 196.59 mg/Nm ³ NO _x 131.31 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	1.60	4.80
Wastes / Residues Containing Oil (5.2) in MT	1.0	0.99	0.480
ETP Sludge/SEP's residue (35.3) in MT	1.0	-	-
(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 30,486	Dry Bottom Ash 36,753
(b) From pollution control facilities (MT)	Dry Fly Ash 1,21,942	Dry Fly Ash 1,47,012
(c) (1) Quantity recycled or re-utilized with in the unit	Nil	Dry Fly Ash 31.50
		Dry Bottom Ash 10.50
(2) Sold (MT)	Dry Fly Ash 1,21,942	Dry Fly Ash 1,46,980.5
	Dry Bottom Ash 30,486	Dry Bottom Ash 36,742.5
(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 2024-25	Final disposal Facility
1	Hazardous Wastes	Used Oil (5.1) in KL	2.0	Sending to PCB Authorised Vendor
		Wastes or Residues containing Oil (5.2) in MT	0.422	
2	Solid Wastes	Dry Fly Ash in MT	1,47,012	100 %Ash utilisation achieved. Dry Fly Ash and Dry Bottom Ash are being sent to Cement and Brick industries.
		Dry Bottom Ash in MT	36,753	

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) Adopted Air-cooled condensing Technology for cooling steam. Hence our specific water consumption FY 2024-25 is against our specific water consumption norms as 3.5m³/MWHr.

Air Cooled Condenser installed in all the 4 units



- e) 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.



- f) 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.

iReM Viewer - OPG

Refresh Now | Groupwise Display | Live Camera | Error Log | About

Current Date & Time: 10 Jul 2025 15:07:33 | Next Readings @: 10 Jul 2025 15:08:01

Meter Name	Date & Time	Flow Rate (m3/hr)	Totalizer (m3)	Current (mA)	SMS On Fail	ErrorMsg
ETP outlet to Solar	10 Jul 2025 15:07	0	3318.664	0	☒	
Inlet to Clarifier	10 Jul 2025 15:07	0	27670	0	☒	
Inlet of RO 1st St...	10 Jul 2025 15:07	0	16980	0	☒	
Common RO Per...	10 Jul 2025 15:07	0	5234	0	☒	
Outlet of RO 3rd ...	10 Jul 2025 15:07	0	522	0	☒	

Port	Settings	Status
COM - 3	9600, 8, 0, 1	Ok

Status	Meters
1. Total Meters	5
2. Ok	5
3. Not Ok	0

Event	Time
Last Read @	10/07/2025 15:07:00
Last Online Update to TNPCB @	10/07/2025 15:05:00
Last Online Update to CPCB @	10/07/2025 15:05:00
AMCValid Until	31/03/2026 00:00:00
DSC valid upto	10/05/2026 11:30:03

Service iReM on PCB1 is running. | Internet connected | SMS site connected

- g) Annual Stack emission and Ambient Air quality survey was carried out by TNPCB and PCB approved Laboratory. No any deviation on monitored parameters reported. - Report Attached as Annexure – II & I.
- h) Total cost involved for Monitoring of Environment measures includes Source Emission Survey/Ambient Survey/Noise Analysis/Effluent and Treated STP out let etc – Rs 24.85 Lakhs.

- i) To ensure uninterrupted real-time stack emission and ambient air quality monitoring, critical spares such as sensors, heaters, and membranes have been replaced. The total cost for source and ambient air surveys, periodic effluent and treated STP water analysis by TNPCB- and PCB-approved laboratories, and maintaining the health of monitoring systems is approximately ₹1,00,00,000
- j) In line with complying NOx emission limit as per the New Emission standard notification , For Unit 3 , De NOx system has been installed FY 2024- 25 with the project cost Rs 14.0 Cr. (Note : FY 2023-24 – De NOx system installed to Units 1 & 2)
- k) Warm up vent Silencer has been installed in unit 123 flash tank to reduce noise levels up to 40-45 % (75 – 85 DB) - Approx. cost was Rs.1.77 Lakhs.



l) Ash Handling System :

- a. High Efficiency Electro Static Precipitators have been installed in all four units and found working satisfactory.
- b. Separate Silos are being provided for Collecting both Fly and Bottom Ash in dry form.



- c. Both Ashes (Fly & Bottom Ashes) entirely utilised by sending to Cement and Brick making industries and for providing ECO flooring inside plant premises.
- d. ECO flooring has been provided up to 3500 Sq meter FY 2024 – 25. Approx cost was Rs.2.74 Lakhs.



- e. No Ash is dumped at any point of time.
- f. We keep updating Ash Generation and utilisation details in Coal Ash portal on monthly basis.

GOVERNMENT OF INDIA
MoP/MoEF/CEA/CPCB

Ash Availability & Utilization Portal

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Prospective Buyers

Update Ash Generation and Utilization ← Back

Company Name OPG Power Generation Private Limited	Plant Name OPG Power Generation Private Limited	For The Month and Year May 2025	Get Data
Coal Consumption (Lakh Metric Tonnes) 1.52542	Ash Content % 14.026752	Fly Ash Gen. (Lakh Metric Tonnes) 0.2049499	Bottom Ash Gen. (Lakh Metric Tonnes) 0.0512375
Water consumption for slurry discharge 0.0	Waste Water From Ash Pond into Land / Water Body (m3) 0.0	PLF 80.866	No of Units (MWh) 249080
		Total (LMT) 0.2561874	

Ash Utilization

Consumer Company Name *	Area of Usage *	Purpose *	Distance Range *	Type of Ash *	Quantity of Utilized Ash (Lakh Metric Tonnes) *	Amount Received by power plant against sale of ash (Rs)	Expenditure Borne by power plant (Rs)
Ramco	Cement Manufacturing	Production of Cement	Within 100KM	☒ Fly ☐ Bottom ☐ Pond	0.0192189	0	0
Thirumalai Agencies	Ready mix concrete	Part Replacement of Cement	Within 100KM	☒ Fly ☐ Bottom ☐ Pond	0.0002874	0	0
Dalmia Cement (Ariyalur)	Cement Manufacturing	Production of Cement	Beyond 300 Km	☒ Fly ☐ Bottom ☐ Pond	0.0181635	0	0
Kanniamman Enterprises	Ready mix concrete	Part Replacement of Cement	Within 100KM	☒ Fly ☐ Bottom ☐ Pond	0.0005768	0	0

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- g. To ensure its healthiness , We have spent approx. ₹28,67,091 towards replacing shaft, insulators , Tamper resisters and hopper heaters , and in Unit 4 – Magalti chain clamps and PAC super belts , Unit 3 – BAC super belt

m) **Coal Handling System :**

- Coal Storage is being done in two dedicated Closed shed.
- Coal is being transferred through conveyor belts, which are all having hoods arrangement to mitigate spillage and fugitive dust emissions.
- Adequate water sprinklers and Bag filters have been provided in all Coal and Ash handling points and transfer areas to mitigate fugitive dust emission.



- Two no's of Fog Canon systems installed in Coal storage yard. Approx. cost was Rs 9.44 Lakhs.



- Skirt rubber / Scarpers have been replaced in Coal conveyors to prevent coal spillage further with approx. cost of Rs. 4.76 Lakhs.

- f. Critical spares like have been replaced in dust suppression and Extraction systems. (Approx. Cost was Rs. 7.59 Lakhs.
- g. Road Sweeping machine connected with bull is in placed to collect Coal fines (Approx cost will be Rs. 2.08 Lakhs.



- n) 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.
- o) Fans have been replaced on existing ACCs with FRP materials to increase the efficiency of condensation leads reduction water and energy foot print.
- p) 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



- q) 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.



- r) 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.
- s) Roof Top harvesting system has been implemented in raw water storage tanks to conserve and store rain water.



- t) Maintaining / increasing Bio diversity by planting various local flora species. 102 faunas (Terrestrial 23, Aquatic -46 & Aerial - 33) spotted in this year.
- u) 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.



Ground water levels and Quality attached as Annexure – III.

- v) Acoustic enclosures have been provided for all noise generating equipment is to attenuate noise levels and Periodic Noise survey is being carried out.
- w) The Hazardous and Other wastes are being stored in an Isolated Designated earmarked separate shed with Secondary containment provisions.



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



- y) Increased usage of Biomass for Co-firing.

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

- Proposed to procure Start up vent MOV valve and Auxiliary steam control Valve at Units 123 to prevent steam leakage. (Approx cost will be Rs 18.0 Lakhs
- Planned to procure Lube oil filtration system to prevent resource depletion (Approx cost will be Rs 10.0 Lakhs)
- Planned to upgrade Bottom Ash handling system (Approx cost Rs 20.0 Lkaks)
- Planned to procure feed water control valves , Main Soot blowing control Valve and APH soot blowing control Valve to eliminate steam leakages.
- Pressure sand and Activated Carbon Filters planned to replace due to ageing in Sewage treatment plant (Approx cost will be Rs 7.0 Lkaks)
- In line with implementation of National Clean air Programme (NCAP) that is launched by the Ministry of Environment, Forest and Climate Change (MoEF&CC) and the directions by Central Pollution Control Board (CPCB), a 500-kVA DG set - Unit 1 planned to retrofit with an emission control device.

(Approx Cost will be Rs 9.0 lakhs)

- g) Planned to replace Coal conveyors belt upto 2000 mtrs due to ageing .(Approx cost will be Rs 65.0 lakhs)
- h) Coal storage shed planned to revamping upto 12000 Sq meters (Approx cost will be Rs 98.0 lakhs)
- i) Conveyor/ Unloading ramp Transfer towers Cladding sheets planned to replace.(Approx cost will be Rs 40.0 lakhs)
- j) Green belt developed further more than 33% of the total area with the saplings plantation of
- k) Planned to Revamp firefighting line & Dust extraction and Suppression system at coal handling area (Approx. cost will be Rs 1.31 Lakhs)

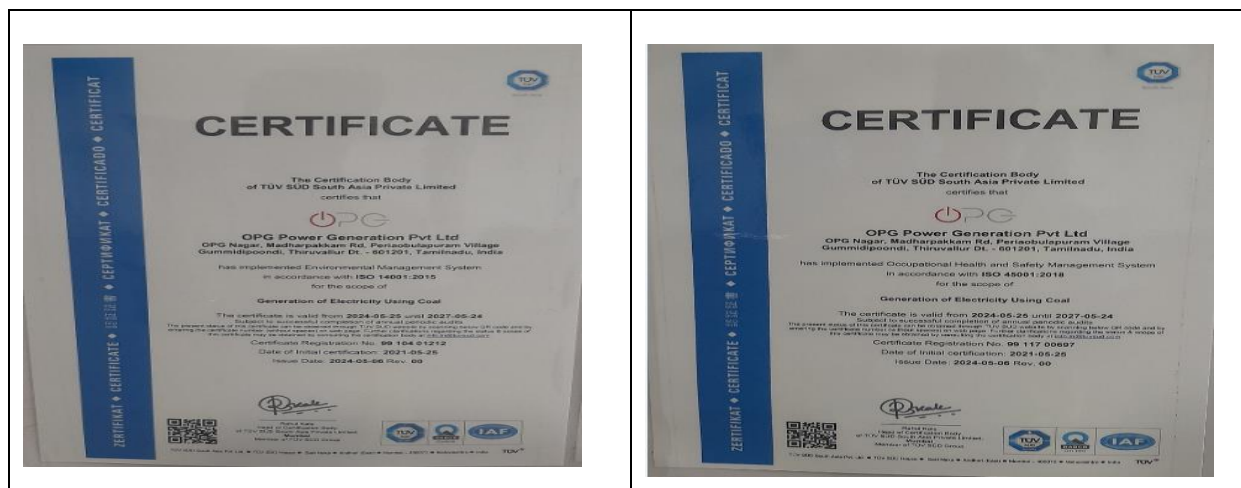


PART I

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 Earth Day

World Earth day celebration

Venue & Time: In front of Workshop @ 16.00 Hrs Dt 22.04.2024

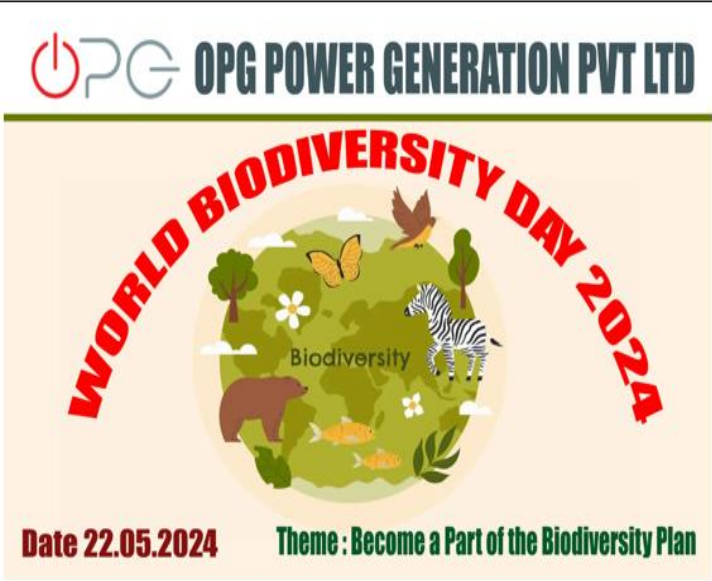
- Theme: Planet VS Plastics

Agenda for the Celebrations:

- Banner Opening by Environment Team
- Welcome speech by Environment Team
- World Earth Day Awareness Speech by Plant Higher Officials
- Pledge Taken
- Watering fruit slices distributions



World Biodiversity Day

<u>World Biodiversity day celebration</u> Venue & Time: In front of Workshop @ 15.30 Hrs Dt 22.05.2024 • Theme: Become a Part of the Biodiversity Plan <u>Agenda for the Celebrations:</u> ➤ World Biodiversity Day Awareness Speech by Environment Team ➤ Pledge Taken ➤ Saplings Plantation ➤ Sweets distributions	
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World Environment Day	
<u>World Environment day celebration</u> Venue & Time: In front of WTP @ 10.30 Hrs Dt 05.06.2024 • Theme: "Land Restoration, Desertification and Drought Resilience" <u>Agenda for the Celebrations:</u> ➤ Banner Opening by Environment Team ➤ Welcome speech by Environment Team ➤ World Earth Day Awareness Speech by Plant Higher Officials ➤ Pledge Taken ➤ Sweets distributions ➤ Memento with Saplings & Natural Fruits Distribution	

World Nature Conservation Day
--



World Water Day

Venue & Date: OPG Plant campus and Quarters – 22.03.2025

Programme Schedule:

- Environmental & Plastic Awareness Rally
- Awareness Caps & Manjappai distribution
- Awareness speech & Pledge Taken
- Natural Fruits distribution &
- Saplings Plantation
- Meendum Manjappai – Awareness among public and School children's

Participants:

- Special Guest - Mr Thangaraj – NGC – TN Govt
- OPG Plant Head , OPG Employees & Contractors
- OPG Quarters Children's and Publics.



- 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 2025-26



TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Ambattur.

Ambient Air Quality Survey - Report of Analysis

ROA No. 4/AAQS/2025 - 26

Dated: 15.04.2025

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

2. Address of the Industry : **Periya Obulapuram Village**

Gummidipoondi

Thiruvallur District

Pin code-601 201

3. Date of survey : **07.04.2025**

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 29.0	Max 34.0	Relative Humidity (%)	Min 31	Max 32
Weather Condition	Clear Sky			Nil	
Predominant Wind Condition	South West To North East		Mean Wind Speed (Km/hr)	11 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	52.5	--	12	14
2	On Top of Scaffolding Near OPG Staff quarters	NE	150	2.0	73.4	--	16	18
3	On Top of Scaffolding Near CHP Office	W	150	2.0	65.4	32.2	12.6	14.4
4	On Top of Scaffolding Near Material Gate	SW	100	2.0	78.3	-	16.6	18.8
5	On Top of Scaffolding Near CFK/MTC Gate Kandigai	NW	300	2.0	72.1	38.8	15.4	17.4

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

23/04/2025

Deputy Chief Scientific Officer,
DEL, Ambattur



TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Ambattur.

Stack Monitoring Survey - Report of Analysis

ROA No. 4/AAQS/2025 - 26

Dated: 15.04.2025

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

2. Address of the Industry : Periya Obulapuram Village

Gummidipoondi

Thiruvallur District

Pin code-601 201

3. Date of survey : 07.04.2025

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 - 320TPH 77MW Fuel:- Coal APC Measure:- ESP	508	21.2	268622	34.8	272	109.6
2	Boiler 320 - TPH - 80 MW Fuel:- Coal APC Measure:- ESP	515	21.3	266221	33.4	229.3	178.2
3	Boiler 563 - TPH - 180 MW Fuel:- Coal APC Measure:- ESP	516	21.2	396673	31.2	208	99.8
4	DG Set - 500KVA Fuel:- HSD APC Measure:- Acoustic	428	16.1	2851	30	37.3	65.7
5	DG Set - 625KVA Fuel:- HSD APC Measure:- Acoustic	436	17	2955	28	42.6	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

K. Gaurav 15/4
Deputy Chief Scientific Officer,
DEL, Ambattur



TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Ambattur.

Ambient/Source Noise Level Survey-Report of Analysis

ROA No. 4/AAQS/2025 - 26

Dated: 15.04.2025

1	Name of the Industry	M/s. OPG Power Generation Ltd			
2	Address of the Industry	Periya Obulapuram Village Gummidipoondi Thiruvallur District Pin code-601 201			
3	Date of survey	07.04.2025			
4	Category	RL	Land Use Classification	Industrial	
Type of survey		Ambient/Source		Time of Survey	
Meteorological Conditions		Calm		Day	

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	68.5	65.1	82.6
2	Near OPG Staff quarters	30	150	NE	70.1	68.6	81.2
3	Near CHP Office	30	150	S	63.6	60.6	75.2
4	Near Meterial Gate	30	100	W	64.2	59.2	76.5
5	Near CFK/MTC Gate Kandigai	30	300	NW	70.1	67.2	84.2

Leq Value is the average energy for the measured period

Handwritten Signature
15/4/25

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

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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. : 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

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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

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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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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


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LAB MANAGER

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


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LAB MANAGER

TEST REPORT

ULR NO:TC858224000004238F

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-02-ESP-03
Sample Submission Type : Collected by Lab Representative
Sample Condition : Fit for Analysis
Sampling Plan and Method : GL/EN/SOP/111

Report No. : EN24070012



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	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

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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

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E. PRITHIVIRAJAN
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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.

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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			22-Apr-25	30-May-25	30-Jun-25	29-Jul-25	29-Aug-25	29-Sep-25
Sample Description			STP O/L	STP O/L	STP O/L	STP O/L	STP O/L	STP O/L
DEE Code . No			DEEGMP 250144	DEEGMP 250288	DEEGMP 250410	DEEGMP 250521	DEEGMP 250712	DEEGMP 250879
Lab Code			276	565	874	1068	1453	1766
S.No	Parameter	Unit						
1	pH		7.65	7.68	7.59	7.88	7.3	7.38
3	Total Suspended Solids	mg/L	10	10	18	10	14	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	4	3	3	3
9	COD	mg/L	32	32	40	32	32	24
10	Nitrate Nitrogen	mg/L						
11	Ammonical Nitrogen	mg/L	<2	<2	2.8	<2	<2	<2
12	Fecal Coliform	mg/L	FNA	FNA	FNA	FNA	FNA	FNA
13	Total Nitrogen (NO3+NO2)	mg/L	<1	1.84	<1	<1	<1	<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	4-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	4-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	4-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	6-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	6-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	4-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	5-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	3-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	3-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	6-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	2-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	8-Dec-24	0.25	1.4	0.55	1.3	4.36	1.3	
193	Jan-25	1	3-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	8-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	3-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	5-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	
201	May-25	1	8-May-25	1.22	4.46	5.07	1.55	6.37	9.74	32.8
202		2	20-May-25	1.5	4.88	5.68	1.91	6.98	10.56	
203	Jun-25	1	7-Jun-25	1.59	4.33	6.39	1.81	7.38	12.48	34.9
204		2	22-Jun-25	1.65	4.38	6.56	1.78	7.56	11.5	
205	Jul-25	1	5-Jul-25	1.73	4.43	6.74	1.77	7.93	10.64	59.5
206		2	21-Jul-25	1.45	5.65	7.15	1.74	7.62	9.66	
207	Aug-25	1	6-Aug-25	1.78	5	7.1	1.85	8.15	10.85	92.3
208		2	19-Aug-25	1.6	5.1	7.28	1.88	8.1	10	
209	Sep-25	1	5-Sep-25	1.2	5.04	7.02	1.7	7.74	9.25	42.2
210		2	20-Sep-25	1.15	5.14	6.32	1.69	7.63	9.87	



OPG Power Generation Private Limited

Piezometer Data

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

Advertisement for OPG Power Generation Private Limited. featuring a large image of a power plant and text in Tamil and English. The text includes details about the company and its projects.

Advertisement for OPG Power Generation Private Limited. featuring a large image of a power plant and text in Tamil and English. The text includes details about the company and its projects.

On 06.06.2011 for 1x80 & 1x160 MW

Advertisement for OPG Power Generation Private Limited. featuring a large image of a power plant and text in Tamil and English. The text includes details about the company and its projects.

Advertisement for OPG Power Generation Private Limited. featuring a large image of a power plant and text in Tamil and English. The text includes details about the company and its projects.

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 Paving Blocks	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 Gummdipoondi
28	CMR Transport	93A Sitharajakandigai Gummidipoondi
29	Kamalakaran Eneterprises	No.51/14C,Thasildarmedu,Periya Obulapuram Gummidipoondi
30	Lakshmiipathy Enterprises	51, Yagavalliamman koil street,Siddarajakandigai thiruvallur
31	P.S.Interlocking Bricks	37/8B, KACHIRAPALAYAM ROAD, Eliyathur Kallakurichi
32	Sree Vaaru Enterprises	NO.702/2, YADHAVA KOIL STREET, S R KANDIGAI POST EDAPPALAYAM, Tiruvallur
33	Sri Ram Construction	81/5,Kannambakkam,Gummipoondi Taluk,Tiruvallur
34	Vasantham Enterprises	No-19,Bypass Road Gummidipoondi
35	Sai Agencies	NO.312,, MATHAMMA STREET,EGUVARPALAYAM, GUMMIDIPOONDI,Tiruvallur, Tamil Nadu, 601201.
36	RK Sai Enterprises	No.1, Minjur, Parvathi Nagar, Kesavapuram Chennai, Tiruvallur
37	K.N.Ravikumar	Jayaraman Nagar,Samyreddy Kandigai 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.

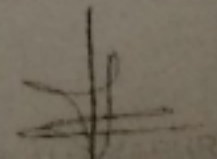
The Chairman welcomed the new Deputy Director, Shri W. Bharat Singh and acknowledged the services rendered by Shri Om Prakash, Dy. Director, MoEF. Thereafter, discussion on each of the agenda items was taken up seriatim.

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

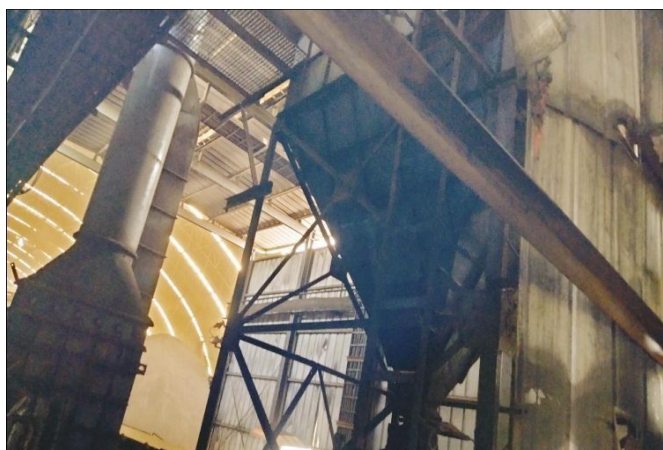
27.05.2021

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

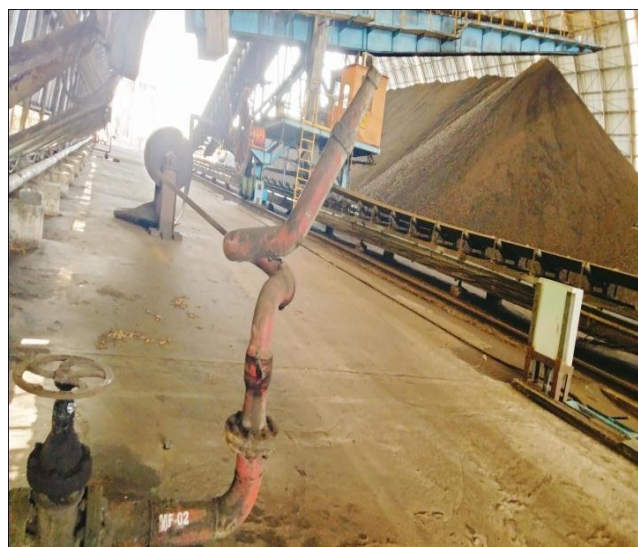
27.05.2021

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

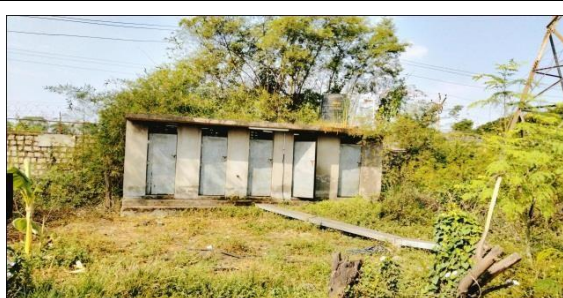
- First aid center is being functional with Ambulance
- A doctor has been provided at site regularly.

First Aid Centre



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

Sanitation Arrangement's for Drivers & Contractors



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

Ground Water Quality (Heavy metals)				
Sampling date	14.05.2025			
Sampling By	Chennai Testing Laboratory Private Limited			
Reference	CTL/CH/N-04767,04768,04769,04770/2025-26			
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	25.08.2025			
Sampling By	Entreat Laboratories			
Reference	0265,0266,0267,0268/2025-2026			
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

BOREWELL WATER SAMPLES - September - 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	7.33	1280	66	2	114	208	102	106	110
2	P-I- BW.No-2	7.20	1768	59	1	92	152	110	42	78
3	P-I- BW.No-3	7.34	892	61	1	86	168	146	22	81
4	P-I- BW.No-4	7.47	1145	65	1	132	196	105	91	76
5	P-I- BW.No-5	7.17	1230	52	2	126	188	89	99	115
6	P-I- BW.No-6	7.43	1005	50	1	124	186	100	86	95
7	P-II- BW.No-1	Sample not received due to Pump not available								
8	P-II- BW.No-2	7.09	800	49	2	119	172	89	83	73
9	P-II- BW.No-3	7.10	1080	61	2	125	196	75	121	102
10	P-II- BW.No-4	7.20	975	72	0	124	188	106	82	110
11	P-II- BW.No-5	7.01	722	68	1	74	160	69	91	88
12	P-II- BW.No-6	7.06	808	60	1	69	136	100	36	92
13	P-II- BW.No-7	6.95	624	54	2	75	128	58	70	126
14	P-II- BW.No-8	7.34	922	48	2	122	184	98	86	131
15	P-II- BW.No-9	7.29	638	53	1	93	132	65	67	85
16	P-II- BW.No-10	7.21	880	57	3	119	180	82	98	69
17	50 Feet Piezometer Store	7.20	1120	36	3	147	172	80	92	140
18	50 Feet Piezometer Open Coal Yard	7.68	3350	40	4	176	160	68	92	126
19	50 Feet Piezometer Labour Shed	6.95	1070	42	3	149	188	105	83	110
20	200 Feet Piezometer Store	7.31	1680	27	10	164	184	95	89	138
21	200 Feet Piezometer Open Coal Yard	6.90	1780	31	7	152	220	110	110	105
22	200 Feet Piezometer Labour Shed	7.58	932	29	6	145	180	88	92	135