OPGPG: EHS /2016-17/1386

29-12-2016

The Joint Director

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

Sir,

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

Period: April 2016 to September 2016

Ref: No.J-13012/111/2009-IA.II (T)

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

Ref: J-13012/111/2009-IA.II (T)

We herewith submit the half yearly Bore well water analysis report, Ambient Air Quality Monitoring report, Piezometer reading report and Compliance status report for the period from April 2016 to September 2016.

Thanking you

Yours faithfully,

For OPG POWER GENERATION PRIVATE LIMITED

D.Sabari Gireaswaran

Station Head

Encl.:

1. Environmental Clearance No.J-13012/111/2009-IA.II (T) General Conditions – Compliance status as on December 2016

2. Environmental Clearance No.J-13012/111/2009-IA.II (T) Special Conditions – Compliance status as on December 2016

New No. 6, Sardar Patel Road, Guindy, Chennai - 600 032. Phone: +91 44 4291 1222, Fax: +91 44 4291 1209

- 3. Environmental Clearance No.J-13012/111/2009-IA.II (T) Amendment for the augmentation from 160MW to 180MW Conditions Compliance status as on December 2016
- 4. MoEF. Lr. No. J-13011/81/2007-IA.II (T), Dated: 31.03.2008 Specific Conditions Compliance status as on December 2016.
- 5. Monthly Ash utilization Report April 2016 to September 2016.
- 6. Bore well water Analysis report
- 7. TNPCB analysis reports for Sewage effluent, Bore well water, Industrial effluent (Recycled)
- 8. CSR Activity report
- 9. Rain Water Harvesting report
- 10. Third party analysis reports on AAQ and Stack
- 11. Report on control of Spontaneous combustion of coal
- 12. Fly Ash customer list
- 13. LDO storage License copy
- 14. Copy of Annual Environmental Statement for the Financial Year 2015-16 in form 5
- 15. Noise Level Report

CC: The District Environmental Engineer, Thiruvallore without Encl.

COMPLIANCE STATUS

EC Conditions:

<u>J-13012/111/2009-IA.II (T)</u>

Amendment for the augmentation from 160 to 180 MW

S. No.	Stipulated Conditions	Compliance Status Update Compliance Status As on 31th March 2016
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	New Delhi for the construction of railway
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 Coal and 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.

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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.	This will be strictly adhered. 100% Fly Ash and Bottom Ash is being utilised in Cement plants/Brick making plants. The report is annexed. 6 months reports for the period April 2016 to September 2016 are attached as appendix.
6.	Green belt shall also be developed around the Ash Pond over and above the Green Belt around the plant boundary.	Noted and complied with. 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.	Environment Management System with Corporate is in place. The plant is certified for ISO 14001 Environment Management System and OHSAS 18001 Occupational Health and Safety management System.

Offer

Environmental Clearance No: J-13012/111/2009-IA.II (T)

A- Special Condition:

4- Special Condition:		Compliance Status Update	
S. No.	Stipulated Conditions	Compliance Status As on 29th December 2016	
1.	Vision document specifying prospective plan for the site shall be formulated and submitted to the Ministry within six month		
2.	The project proponent shall take up the matter for transportation of coal by rail with the Railways. Progress made in this regard shall be submitted to the Registration Office of the Ministry from time to time.		
3.	High Efficiency Electrostatic Precipitators (ESPS) Shall be installed to ensure that particulate emission does not exceed 50 mg/Nm3.	99.9% Efficiency ESP has Been installed to ensure the PM level below 50 mg/Nm3.	
	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.	Bag filters are installed In all the transfer towers to control dust emission. Online data for SOx/NOx/SPM is being uploaded to TNPCB 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 0.10 and indigenous coal is having the maximum sulphur % of 0.4. We are ensuring that both the Sulphur and Ash content shall not exceed the prescribed norms. Documents posted in our official website	

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S. No.	Stipulated Conditions	Compliance Status As on 29th December 2016
5.	Stacks of 100 m and 120 m height respectively shall be installed and provided with continuous online monitoring equipment for SOx, NOx and PM2.5 and PM 10. Exit velocity of the gases shall not be less	respectively has been installed.
	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.	for 1v80 MM and 1v100MM
		Exit velocity is maintained always above 22 m/s.
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.	There is no de - generated water bodies in the plant area.
7.	Water requirement for running the plant to begin with shall be met from ground water after obtaining approval of the competent authority.	Ground water approval has been Obtained from SGWB for quantum of 540 KLD & 820 KLD
	However, the project proponent shall use harvested rain water in the long run. Air cooled condenser shall be installed for condensate cooling.	Harvested rainwater is mainly utilised for the process and Air cooled condensers are installed as per instruction.
8.	Hydro-geological status (quality and quantity) of ground water shall be reviewed annually from and	The reports are posted in our official website.
	institute / organization of repute to assess impact of surface water and ground regime (especially around ash dyke).	There is no deterioration in the ground water quality and the results are annexed.
	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.	
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.	Detailed hydrogeological study is made and the report is available in the website. www.opgpower.com
		Harvested rainwater stored & is used during the lean period.

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S. No.	Stipulated Conditions	Compliance Status As on 29th December 2016
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.	south to north which we have not
11.	A well designed rainwater harvesting shall be put in place before commissioning of the plant.	A detailed study was made and the report was posted in our official website.
	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.	implemented.
12.	The treated effluents conforming to the prescribed standards only shall be recirculated and	Noted and being ensured. The reports from TNPCB are also attached.
	reused within the plant. Arrangement shall be made that effluents and storm water do not get mixed.	A clear demarcation has been made to avoid the mixing of effluent water with storm water in design itself.
	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.	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.	Noted and complied with.
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 1. The ash utilization details are annexed.

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S. No.	Stipulated Conditions	Compliance Status As on 29 th December 2016	
15.	Fly ash shall be collected in dry from and storage facility (silos) shall be provided.	Separate silos are provided for Fly ash and bottom ash with adequate capacity.	
	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.	utilization and the analysis reports are	
16.	Ash pond (if any) shall be lined with HDP / 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.	Noted and complied with. There is no Ash storage inside the plant. Fly ash and bottom Ash is disposed instantaneously.	
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. District Forest Officers are helping in selection of the species, nurturing and enhancement.	
. 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 abound manner.	This is being done under CSR Activity.	
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 activities to be undertaken shall be submitted within one month along with road map for implementation.	Noted and complied with. Document is posted in our official website www.opgpower.com	



S. No.	Stipulated Conditions	Compliance Status As on 29th December 2016
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.	Document is posted in our official website. www.opgpower.com
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 complied with. Document is posted in our official website. www.opgpower.com

Popular

PART- III

Subject: - Environmental Clearance – 2 x77MW reg.

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

A. SPE	ECIFIC CONDITION:	Compliance Status Update
S. No.	Stipulated Conditions	Compliance Status As on 29th December 2016
i.	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.
ii.	Sulphur and ash contents in the coal to be used in the project shall not exceed 1.2% and 15% respectively.	The Indonesian coal used in this plant is having a maximum of 0.1% Sulphur and 10% Ash respectively.
iii.	Two stacks with continuous online monitoring equipments for SO2, NOx 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.	monitoring system for SO2, NOx and SPM was installed. The height of the chimney is 140m and the exit velocity of flue gases is more than 20.14 m/s, which is meeting the
iv.	High efficiency Electrostatic Precipitator (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm3.	1. 99.9% Efficiency ESP has been installed to ensure the PM level is below 50 mg/Nm3.
		Bag filters are installed in all the transfer towers of Coal.
		3.Online data for Sox/NOx/SPM is being uploaded to TNPCB CARE AIR center
	Coal transportation will be done by rail up to Gummidipoondi Railway station and thereafter by road.	We obtained approval from Indian railways New Delhi for the construction of railway line. However the national High ways has suggested a modification in the final alignment in the GNT Road for Road Over Bridge (RoB). Upon obtaining the clearance from the NHAI, the erection work will be commenced with immediate effect.

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vi.	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 off 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 plants and brick making plants respectively.	
vii.	Ash pond shall be lined with LDPE lining. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.	There is no ash storage inside the plant. Fly ash and Bottom ash is disposed instantaneously.	
Viii.	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.	Yes water sprinkler / and 11 Bag filters at all transfer points have been provided in the coal storage /handling area to control the fugitive emission.	
ix.	Water requirement shall not exceed 4.3m3/hr.	Clearance obtained from TNPCB for using ground water and the monthly reports are being submitted to	
		Chief Engineer – GWD	
		Superintend Engineer – GWD	
		3. Executive Engineer – GWD	
		Geologist - GWD	
····		5. TNPCB	

ASH UTILISATION REPORT

(April 2016 – Sep 2016)



MONTHLY FLYASH AND BOTTOM ASH GENERATION, UTILIZATION DETAILS

APRIL 16

NAME AND ADDRESS OF THE SUPPLIER

OPG POWER GENERATION PRIVATE LIMITED

MADHARPAKKAM ROAD, PERIYA OBULAPURAM VIL.

GUMMIDIPOONDI 601 201

Accumulated quantity of ash at the start of the month

Fly Ash

1. Kept at Ash Dyke

NIL

2. Kept at Silo

NIL

Bottom Ash

1. Kept at Ash Silo

NIL

ASH GENERATION

1	Quantity of Blended coal used during this month	173820 MT
2	Average ash content in the coal	8.69 %
3	Generation of Fly ash	12084 MT
4	Generation of Bottom Ash	3020 MT

ASH DISPOSAL

Fly Ash

1	To Cement Industries	12084 MT
2	To Brick Industries	NIL
3	Total disposal of Fly ash	12084 MT

Bottom Ash

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1	To Brick Industries	3020 MT

ASH ACCUMULATION

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

Fly ash sent to the following industries

- 1. Abhinaya agency
- 2. Lakshmi Agencies
- 3. Ultra Tech Cements Ltd
- 4. THirumalaI agencies
- 5. Pugalmathi & Co
- 6. Sri Praveen Enterprises
- 7. Vasantham Enterprises
- 6. OM Muruga
- 7. The India cements Ltd
- 8. Sri Ram construction
- 9. Munusamy & co
- 10. Sri Velavan Traders

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MONTHLY FLYASH AND BOTTOM ASH GENERATION, UTILIZATION DETAILS

MAY 16

NAME AND ADDRESS OF THE SUPPLIER

OPG POWER GENERATION PRIVATE LIMITED

MADHARPAKKAM ROAD, PERIYA OBULAPURAM VIL.

GUMMIDIPOONDI 601 201

Accumulated quantity of ash at the start of the month Fly Ash

1. Kept at Ash Dyke

NIL

2. Kept at Silo

NIL

Bottom Ash

1. Kept at Ash Silo

NIL

ASH GENERATION

1	Quantity of coal used during this month	1,48,487 MT
2	Average ash content in the coal	9 – 10 %
3	Generation of Fly ash	11100 MT
4	Generation of Bottom Ash	2775 MT

ASH DISPOSAL

Fly Ash

1	To Cement Industries	11100 MT
2	To Brick Industries	NIL
3	Total disposal of Fly ash	11100 MT

Bottom Ash

1	To Brick Industries	2775 MT

ASH ACCUMULATION

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

Ash sent to the following industries

- 1. Abhinaya Agency
- 2. Lakshmi Agencies
- 3. Ultra tech Cements Ltd.
- 4. Thirumalai agencies
- 5. Pugal Mathi & Co
- 6. Vasantham Enterprises
- 7. OM Muruga
- 8. The India cements Ltd.
- 9. Sri Ram Construction.
- 10. Munusamy & Co

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MONTHLY FLYASH AND BOTTOM ASH GENERATION, UTILIZATION DETAILS

JUNE 16

NAME AND ADDRESS OF THE SUPPLIER

OPG POWER GENERATION PRIVATE LIMITED MADHARPAKKAM ROAD, PERIYA OBULAPURAM GUMMIDIPOONDI 601 201

Accumulated quantity of ash at the start of the month Fly Ash

1. Kept at Ash Dyke

NIL

2. Kept at Silo

NIL

Bottom Ash

1. Kept at Ash Silo

NIL

ASH GENERATION

1	Quantity of Blended coal used during this month	128629 MT
2	Average ash content in the coal	10.61 %
3	Generation of Fly ash	13647 MT
4	Generation of Bottom Ash	2729 MT

ASH DISPOSAL

Fly Ash

1	To Cement Industries	13647 MT
2	To Brick Industries	NIL
3	Total disposal of Fly ash	13647 MT

Bottom Ash

•	1	To Brick Industries	2729 MT
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ASH ACCUMULATION

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

Fly ash sent to the following industries

- 1. Abhinaya agency
- 2. Lakshmi Agencies
- 3. Ultra Tech Cements Ltd
- 4. THirumalal agencies
- 5. Pugalmathi & Co
- 6. Sri Praveen Enterprises
- 7. Vasantham Enterprises
- 6. OM Muruga
- 7. The India cements Ltd
- 8. Sri Ram construction

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MONTHLY FLYASH AND BOTTOM ASH GENERATION, UTILIZATION DETAILS

JULY 16

NAME AND ADDRESS OF THE SUPPLIER

OPG POWER GENERATION PRIVATE LIMITED MADHARPAKKAM ROAD, PERIYA OBULAPURAM GUMMIDIPOONDI 601 201

Accumulated quantity of ash at the start of the month

Fly Ash

1. Kept at Ash Dyke

NIL

2. Kept at Silo

NIL

Bottom Ash

1. Kept at Ash Silo

NIL

ASH GENERATION

1	Quantity of Blended coal used during this month	. •
-	actuality of Biolidea coal asea during this month	130153 MT
2	Average ash content in the coal	9.05 %
3	Generation of Fly ash	9431 MT
4	Generation of Bottom Ash	2357 MT

ASH DISPOSAL

Fly Ash

1	To Cement Industries	9431 MT
2	To Brick Industries	NIL
3	Total disposal of Fly ash	9431 MT

Bottom Ash

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Į	1	To Brick Industries	0057 117
ĺ	•	TO Drick industries	2357 MT
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ASH ACCUMULATION

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

Fly ash sent to the following industries

- 1. Abhinaya agency
- 2. Lakshmi Agencies
- 3. Ultra Tech Cements Ltd
- 4. THirumalal agencies
- 5. Pugalmathi & Co
- 6. Sri Praveen Enterprises
- 7. Vasantham Enterprises
- 6. OM Muruga
- 7. The India cements Ltd
- 8. Sri Ram construction

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MONTHLY FLYASH AND BOTTOM ASH GENERATION, UTILIZATION DETAILS

AUGUST 16

NAME AND ADDRESS OF THE SUPPLIER

OPG POWER GENERATION PRIVATE LIMITED MADHARPAKKAM ROAD, PERIYA OBULAPURAM GUMMIDIPOONDI 601 201

Accumulated quantity of ash at the start of the month

Fly Ash

1. Kept at Ash Dyke

NIL

2. Kept at Silo

NIL

Bottom Ash

1. Kept at Ash Silo

NIL

ASH GENERATION

1	Quantity of Blended coal used during this month	141860 MT
2	Average ash content in the coal	6.65 %
3	Generation of Fly ash	7858.09 MT
4	Generation of Bottom Ash	1571.62 MT

ASH DISPOSAL

Fly Ash

1	To Cement Industries	7858.09 MT
2	To Brick Industries	NIL
3	Total disposal of Fly ash	7858.09 MT

Bottom Ash

1			
	1	To Brick Industries	1571.62 MT

ASH ACCUMULATION

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

Fly ash sent to the following industries

- 1. Abhinaya agency Madhavaram
- 2. Sri Balaji Agencies A.S.Pettai
- 3. Ultra Tech Cements Ltd Arakonam
- 4. THirumalai Agencies Madhavaram
- 5. Pugalmathi & Co Mettur Dam
- 6. Sri Praveen Enterprises Madhavaram
- 7. Vasantham Enterprises Gummudipoondi
- 6. OM Muruga Gummudipoondi
- 7. The India cements Ltd Vallur
- 8. P.M Fly ash Bricks S.R.Kandigai

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MONTHLY FLYASH AND BOTTOM ASH GENERATION, UTILIZATION DETAILS

SEP 16

NAME AND ADDRESS OF THE SUPPLIER

OPG POWER GENERATION PRIVATE LIMITED MADHARPAKKAM ROAD, PERIYA OBULAPURAM

GUMMIDIPOONDI 601 201

Accumulated quantity of ash at the start of the month

Fly Ash

1. Kept at Ash Dyke

NIL

2. Kept at Silo

NIL

Bottom Ash

1. Kept at Ash Silo

NIL

ASH GENERATION

1	Quantity of Blended coal used during this month	87525 MT
2	Average ash content in the coal	16.1 %
3	Generation of Fly ash	11278.41 MT
4	Generation of Bottom Ash	2819 MT

ASH DISPOSAL

Fly Ash

1	To Cement Industries	11278.41 MT
. 2	To Brick Industries	NIL
3	Total disposal of Fly ash	11278.41 MT

Bottom Ash

4		WHI -	
	1	To Brick Industries	2819 MT

ASH ACCUMULATION

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

Fly ash sent to the following industries

- 1. Abhinaya agency Madhavaram
- 2. Sri Balaji Agencies A.S.Pettai
- 3. Ultra Tech Cements Ltd Arakonam
- 4. THirumalai Agencies Madhavaram
- 5. Pugaimathi & Co Mettur Dam
- 6. Sri Praveen Enterprises Madhavaram
- 7. Vasantham Enterprises Gummudipoondi
- 6. OM Muruga Gummudipoondi
- 7. The India cements Ltd Vallur
- 8. P.M Fly ash Bricks S.R.Kandigai

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BORE WELL ANALYSIS REPORT

(April 2016 – Sep 2016)

BORE WELL WATER ANALYSIS

	-			· · · · · · · · · · · · · · · · · · ·		Apr-16			
S.No	Phase	Bore well No	рН	EC μS/cm	Silica ppm	Total Hardness in ppm as CaCO3 mg/L	Calcium Hradness as CaCO3 mg/L in ppm	Magensium Hardness as CaCO3 mg/L in ppm	Chloride as c in ppm mg/L
1	4 1	1	7.65	1350	84.2	460	120	340	118
2		2							110
3] ,]	3	7.68	1215	85.2	390	190	200	90
4		4	7.55	800	86.2	295	195	100	39
5]	5	7.38	815	91.2	340	148	192	60
6		6	7.48	774	72.0	292	96	196	50
1		1						130	30
2]]	2	7.60	680	92.8	270	156	114	48
3	[]	3	7.50	1350	48.0	350	120	230	120
-4	<u> </u>	4	7.80	1490	110.6	650	312	338	89
5		5	7.90	870	99.6	290	132	158	61
6.	11	6	7.88	805	109.0	350	148	202	56
7		7							
8		8	7.90	907	98.4	430	184	246	65
9		9	7.68	780	90.0	260	138	122	68
10		10	7.70	1002	89.5	450	172	278	75

	-				May-1	16			<u></u>
S.No	Phase	Bore well No	рН	EC μS/cm	Silica ppm	Total Hardness in ppm as CaCO3 mg/L	Calcium Hradness as CaCO3 mg/L in ppm	Magensium Hardness as CaCO3 mg/L in ppm	Chloride as cl in ppm mg/L
1		1	7.70	1360	80.8	435	120	315	115
2]]	2						313	112
3	1 , 1	3	7.55	1230	84.6	382	190	192	02
4] ' [4	7.69	755	78.5	268	195	73	92 42
5	1 1	5	7.45	855	75.4	350	148	202	55 55
- 6		6	7.35	830	80.2	300	96	204	
1		1	-	-	_		- 50	204	52
2	Ļ	2	7.70	750	90.7	300	156	144	-
3	L	3	7.54	1450	55.8	380	120	260	56
4	Į	4	7.63	1420	105.6	620	312	308	132
5	11	5	7.36	850	90.7	300	132	168	97
6	" [6	7.82	835	106.0	342	148		64
7		7.	-		-	3-72	- 146	194	59
8		8	7.83	950	93.2	444	184		
9		9	7.69	805	91.0	280	138	260	69
10		10	7.85	1050	93.7	485	172	142] 313	72 79

Poleur

						Jun-16			
S.No	Phase	Bore well No	pН	EC μS/cm	Silica ppm	Total Hardness in ppm as CaCO3 mg/L	Hradness	Magensium Hardness as CaCO3 mg/L in ppm	Chloride as cl in ppm mg/L
1	_	1	7.85	1430	79.6	426	120	306	110
2] [2	-	-	_	-	-	-	-
3] , [3	7.60	1150	80.3	390	190	200	86
4	」'	4	7.70	800	75.2	280	195	85	40
5] [5	7.50	890	72.0	320	148	172	51
6		6	7.41	850	81.7	315	96	219	59
1		1	-	-	-	-	-	_	-
2] [2	7.65	810	88.4	317	156	161	60
3	j [3	7.75	1507	60.5	398	120	278	118
4] [4	7.48	1450	108.9	638	340	298	104
5] ,,]	5	7.28	776	78.5	268	132	136	49
6] " [6	7.60	789	96.0	325	148	177	51
7] [7							
8		8	7.70	1005	95.2	450	184	266	75
9		9	7.73	950	90.6	305	138	167	78
10	-	10	7.49	1080	92.4	475	172	303	69

	··· _[·········			•	:-iut	16			
S.No	Phase	Bore well No	рН	EC μS/cm	Silica ppm	Total Hardness in ppm as CaCO3 mg/L	Hradness	Magensium Hardness as CaCO3 mg/L in ppm	Chloride as cl in ppm mg/L
1	_	1 1	7.45	1382	75.7	430	120	310	107
2		2	-	-	"	-	-	~	-
- 3	-	3	7.51	1107	81.5	384	190	194	81
4		4	7.57	810	74.1	272	195	77	51
5	_i	· 5	7.66	903	73.7	320	148	172	56
6		6	7.85	808	78.2	298	96	202	49
1	_]	1	-	-	-	-		-	-
2] .	2	7.55	856	89.7	360	156	204	71
3		3	7.83	1490	61.7	403	120	283	123
4		4	7.50	1410	110.7	650	340	310	120
5	4 11	5	7.36	808	79.2	275	132	143	55
6] "]	6	7.26	770	83.0	298	148	150	45
7		7		-	-	1 .	-	-	-
8	_	8	7.43	980	90.1	397	184	213	68
9]]	9	7.47	960	87.4	322	138	184	70
10	J i	10	7.55	980	89.2	437	172	265	62

Olheur

	·				Aug-16				
S.No	Phase	Bore well No	рН	EC μS/cm	Silica ppm	Total Hardness in ppm as CaCO3 mg/L	Calcium Hradness as CaCO3 mg/L in ppm	Magensium Hardness as CaCO3 mg/L in ppm	Chloride a cl in ppm mg/L
1	_	11	7.87	1450	78.9	450	120	330	123
2	.] [2		-	-	-	-	-	-
3		3	7.62	1130	83.1	390	190	200	86
4	վ ՝ }	4	7.44	790	73.1	268	195	73	53
5]	5	7.70	930	79.8	341	148	193	62
6		6	7.90	890	83.7	325	96	229	60
1] [1		-] : -	-	-	_	-
2		2	7.81	897	90.0	355	160	195	73
3] [3	7.65	1505	68.9	430	120	310	131
4	1	4	7.59	1470	109.5	610	340	270	143
5	┤ "	5	7.45	890	80.9	300	132	168	59
6] " [6	7.37	800	80.0	300	148	152	50
7		7	-	-	-	- 1	-	- 1	
8] [8	7.52	1007	90.4	370	184	186	70
9] [9	7.50	970	86.0 .	330	138	192	67
10		10	7.40	950	84.5	405	172	233	58

	т	γ				Sep-16			
S.No	Phase	Bore well No	pН	EC μS/cm	Silica ppm	Total Hardness in ppm as CaCO3 mg/L	Calcium Hradness as CaCO3 mg/L In ppm	Magensium Hardness as CaCO3 mg/L in ppm	Chloride as cl in ppm mg/L
_ 1		1	7.40	1350	90.2	430	120	310	120
2	_[.	2							
3		3	7.85	1260	92.7	425	196	229	90
4	↓ ' !	4	7.55	810	85.6	307	128	179	42
5		5	7.50	760	80.9	300	148	152	60
6		6	7.50	910	75.0	310	96	214	59
1		1	-	-	-	-	-	-	-
. 2]]	2	7. 65	670	95.6	290	156	134	55
3	1 1	3	7.55	1390	58.0	350	120	230	113
4]]	4	7.70	1460	110.9	580	312	268	105
·5	1 11	5	7.54	860	88.7	297	132	165	60
6] " [6	7.50	905	107.4	350	148	202	56
7]	7	-	-	-	-	-	-	
8	1]	8	7.44	937	97.5	430	184	246	55
9	1 1	9	7.55	780	90.0	280	128	152	68
10		10	7.60	1001	85.9	450	172	278	90

Sample Description Sample Description Sample Description Lab Code S.No. Parameter 1 pH 2 Conductivity 3 Total Suspended Solids 4 Total Dissolved Solids 5 Chlorides 6 Sulphates 7 Oil and Grease 8 BOD at 27 °C for 3 days 9 COD 10 Potassium 11 Sulphides 12 Copper 13 Zinc 14 Cadmium 15 Lead 16 Nickel 17 Total Phosphate 18 Total Alkalinity 20 Total Kjeldhal Nitrogen 21 Fluoride 22 Mercury 23 Total Nitrogen (NO3+NO2 24 Ammonical Nitrogen 25 Feccal Coliform					AN L	CB ANAL	YSIS REP	ORT PFRIC	OD FROM	Anril 2016 -	san 2016						
Sample Description RO permeat STP out let Bore well Bore well Bore well Rore		Date of Sample Collec	tion			6:Apr-	9			23-118	9/5/	8-Jun-46	1,46	1777	24-Aug-16	28.5	28-Sep. 16
DEE Code No. VP 101 VP 102 VP 103 VP 104 VP 105 VP 107 VP 1		Sample Description	u	RO permeat	STP out let		7	-	-	RO permeat	STP out let	ETP Out	STP Out	ETP Out STP Out	STPOut	STP Out	STP Out IRO permeat
Lab Code		DEE Code No.		VP 101	VP 102	VP 103	VP 104	_		VP 801	VP 802	VP.		VP 401	VP 402	VP 101	VP 102
SNo. Parameter Unit 1 2 3 4 5 6 1 1 pH pH 8.25 7.47 7.79 7.61 8.03 8.2 687 2 Conductivity pS/cm 848 107 12 10 8 12 14 3 Total Suspended Solids mg/L 520 674 810 500 498 372 5 Chlorides mg/L 520 674 810 500 498 372 5 Chlorides mg/L 520 674 810 500 498 372 6 Sulphates mg/L 510 22 51 15 18 7 18 7 Oll and Grease mg/L 61 2 52 51 61 61 61 61 61 61 61 61 61 61 61 61 61 61 61 61		Lab Code		25	76	27	28	29	30	396	397	27.5	578	1191	1192	1357	1358
1 pH 8.25 7.47 7.79 7.61 8.03 8.2 687 2 Conductivity µS/cm 848 107 1280 823 796 603 3 Total Suspended Solids mg/L 8 10 12 10 8 12 14 4 Total Dissolved Solids mg/L 520 674 810 500 498 372 5 Chlorides mg/L 63 22 51 21 15 18 6 Sulphates mg/L 61 22 51 21 61	S.No.	Parameter	di C		2	3	4	က	မှ	-	2	-	2	-	2	-	2
2 Conductivity µS/cm 848 1071 128 796 603 3 Total Suspended Solids mg/L 620 674 810 50 498 372 4 Total Dissolved Solids mg/L 150 674 810 500 498 372 5 Chlorides mg/L 150 209 250 100 169 105 6 Sulphates mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1		Hd		8.25	7.47	7.79	7.61	8.03	8.2	6.87	6.77	7.49	9.34	7.8	7.71	7.73	7.85
3 Total Suspended Solids mg/L 8 10 12 10 8 12 14 4 Total Dissolved Solids mg/L 520 674 810 500 498 372 5 Chlorides mg/L 150 209 250 100 169 105 6 Sulphates mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <t< th=""><th>2</th><th>Conductivity</th><th>uS/cm</th><th>848</th><th></th><th>1071</th><th>1280</th><th>823</th><th>962</th><th>603</th><th></th><th></th><th></th><th>312</th><th></th><th></th><th>1207</th></t<>	2	Conductivity	uS/cm	848		1071	1280	823	962	603				312			1207
4 Total Dissolved Solids mg/L 520 674 810 500 488 372 5 Chlorides mg/L 150 229 250 100 169 105 6 Sulphates mg/L 61 22 51 21 15 18 7 Oil and Grease mg/L 61 62 51 21 61 </th <th>~</th> <th>Total Suspended Solids</th> <th>m3/L</th> <th>8</th> <th>10</th> <th>12</th> <th>10</th> <th>æ</th> <th>12</th> <th>14</th> <th>12</th> <th>10</th> <th>14</th> <th>10</th> <th>22</th> <th>10</th> <th>14</th>	~	Total Suspended Solids	m3/L	8	10	12	10	æ	12	14	12	10	14	10	22	10	14
5 Chlorides mg/L 150 209 250 100 169 105 6 Sulphates mg/L <1 <1 <1 <1 18 7 Oil and Grease mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	4	Total Dissolved Solids	m ₃ /L	520		674	810	200	498	372		902		182			714
6 Sulphates mg/L <1	လ	Chlorides	mg/L	150		209	250	100	169	105		265		09			300
7 Oil and Grease mg/L <1	9	Sulphates	mg/L	63		22	51	21	15	18		35		4			72
8 BOD at 27 % for 3 days mg/L 24 2 32 4 3 4 10 Fotassium mg/L 24 2 32 32 40 24 32 10 Potassium mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	_	Oil and Grease	mg/L	<1		<1	^	<u>.</u>	1			· 1		Ÿ			<u>~</u>
9 COD mg/L 24 2 32 40 24 32 10 Polassium mg/L 1 2 <1 <1 1 5 11 Sulphides mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1		BOD at 27 °C for 3 days	mg/L	3		3	က	4	ო	4	က	4		2	5	2	3
10 Potassium mg/L <1		000	mg/L	24	2	32	32	4	24	32	24	40	48	24	32	24	32
11 Sulphides mg/L <1	9	Potassium	mg/L	. 1.		2	<1	<u>.</u>	-	5		6.2		-			വ
12 Copper mg/L < 0.0015	1	Sulphides	mg/L	<1		<1	×1	<u>^</u>	<u>*</u>	<u>.</u>		\ \		Ÿ			\ \ \
13 Zinc mg/L < 0.0015		Copper	mg/L	< 0.0015					< 0.0015	< 0.0015		< 0.015		< 0.0015			< 0.0015
14 Cadmium mg/L < 0.0008	33	Zinc	mg/L	< 0.0015		< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015		0.028		< 0.0015			< 0.0015
15 Lead mg/L < 0.015	44	Cadmium	mg/L	< 0.0008					< 0.0008	< 0.0008		< 0.0008	-	< 0.0008			< 0.0008
16 Nickel mg/L < 0.006	55	Lead	mg/L	< 0.015		_	-		< 0.015	< 0.015		< 0.015		< 0.015			
17 Total Phosphate mg/L < 0.01		Nckel	mg/L	> 0.006		> 0.006	_		> 0.006	< 0.006		< 0.006		<0.006			> 0.006
Total Chromium mg/L < 0.01		Total Phosphate	mg/L					1									
Total Alkalinity mg/L Total Kjeldhal Nitrogen mg/L Fluoride mg/L Mercury mg/L Total Nitrogen (NO3+NO2) mg/L Ammonical Nitrogen mg/L Feccal Coliform MPN/: 0n mil	92	Total Chromium	mg/L	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01		< 0.01			< 0.01
Total Kjeldhal Nitrogen mg/L mg/L Fluoride mg/L mg/L Mercury mg/L mg/L Ammonical Nitrogen (NO3+NO2) mg/L mg/L Feccal Coliform MPN/: 0n mil mg/L	13	Total Alkalinity	mg/L														
Fluoride mg/L Mercury mg/L Tctal Nitrogen (NO3+NO2) mg/L Ammonical Nitrogen mg/L Feccal Coliform MPN/: 00 mil	70	Total Kjeldhal Nitrogen	mg/L														
Mercury mg/L	21	Fluoride	mg/L								-						
Total Nitrogen (NO3+NO2 mg/L Ammonical Nitrogen mg/L Feccal Coliforn MPN/: 01 mil	22	Mercury	mg/L		•												
Ammonical Nitrogen mg/L Fecal Coliforn MPN/: On mil		fctal Nitrogen (NO3+NO2)	mg/L								1.12		< 0.15		9.0	< 0.15	
Feccal Coliforn	74	Ammonical Nitrogen	_mg/L								ဗ		-		ဖ		
	22	Feccal Coliform	MPN': 00 mi			-										FNA	

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CSR ACTIVITY REPORT



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

Doc No: OPGPG/EHS /CAC / 02

Minutes of Meeting

Purpose: CSR - Committee meeting for the year 2016-17

Date : 18.04.2016

Venue : Conference Hall, Admin Building

Committee Members:

1. Mr. Sabari Gireaswaran

2. Mr. Velan

3. Mr.M.R.Saravanan

4. Mr.Gnanaguru Pandian

5. Mr.Chakkravarthi

POINTS DISCUSSED:

- A Dispensary has been built in Siddha Raja Kandigai (for SR Kandigai Panchayat) village with complete amenities.
- A Dispensary has been built in Periyaobulapuram Village (for Periyaobulapuram Panchayat) with complete amenities.
- A Community Hall is under construction for the benefit at Kayalarmedu Village.

Recurring Activity

- A dispensary with full time Doctor and Male nurse is being run in SR Kandigai village.
- A dispensary with full time Doctor and Male nurse is being run in Periyaobulapuram village.

Whlen

- Medicines cost, Doctor Salary and Male nurse salary for both the dispensaries are being bared by the Company.
- Frequent health and eye camps are being conducted to all the nearby villages
- Salary is being paid to 11 teachers on Monthly basis through Parent Teacher Association
- School uniform materials with stitching cost are being issued to all the school children in the nearby villages.
- School note books, School bags, School shoes are being issued to all the school children in the nearby villages.
- Education aid is being given to adopted Girl children in all the nearby villages
- Donations were given to nearby schools for their infrastructure improvements.
- Food and Water supply were given to all the nearby villages during natural calamities.
- Sponsorship amount is being issued to all the nearby villages for the cultural programs, Cricket matches, and Kabaddi matches etc.,
- Civil Materials like Gravels, Sand, and Cement are being issued to SR Kandigai, NR Kandigai and Eguvarpalayam Village for infrastructure development.

Olhen

	100 100 100 100 100 100 100 100 100 100		Former			- 100 - 100			27,72,703						153	, fi	455,42,2			75,000	ring di Sanyai		67,444		Sun	The second		47,40	26,83,185	ine comi	n chi		58.25.866
		Expenses	Type Monthly/	Annually	Annually	Annually	Annually	Annually	Annually	Annually	Monthly	One time	Annually	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	One time	One time	One time	One time	One time	One time	One time	One time	One time	Monthly	One time	One time	
			TOTAL	2 10	4,31,116	8,47,940	2,79,045	2,20,925	2,56,177		4,72,000	1,25,000	1,40,500	1,71,534	32,000	16,000	8,000	-		75,000	18,000	14,444	15,000	15,000	5,000	17,44,301	1,98,000	2,00,000	10,000	1,10,084	3,00,000	1,20,800	58.25.866
				Mar-17		Ŀ			ŀ		·		i,	•	•	ļ	ŀ	•							ŀ		-	-	,	,		•	7.0
	Y Y			7 Feb-17	٠	4.	•					:	•		•	ļ.		,	<u> </u>					-	L	L		٠		,		_	
	910			16 Jan-17	-	•	•		L	<u> </u>	·			٠	•	<u>.</u>			<u>'</u>		•			1	,		,		,	<u> </u>		-	
Total Maria				6 Dec-16	Ŀ	Ŀ		<u> </u>	-	-	- 00		•	1	-	•	<u> </u>		Ľ	8	•	•		<u> </u>	·		_	•	•	84		•	- 78
	8			Nov-16		,	-				59,000		٠	٠	•	٠				25,000	'	, .				L	,	,	٠	1,10,084		•	1 94 084
	,	ith		Oct-16	,	3,98,180	١	,	-		59,000		•			١,	,			١.			,			,			,				4 57 180
	110 - 201	Month		Sep-16						-	59,000		•				-	_ •			,	,		,		,		-					20000
	CSK EXPENDITURES FOR 2016 - 2017			Aug-16		ŀ	-	,		,	29,000	1,25,000		•	-		-		•		ŝ	,			5,000			-			_		1 89 000
	KENDIIO			Jul-16	,	,					29,000	-	-	٠	•		,	-					,					-		-	3,00,000		3.59.000
יו אלולי	SAC I			Jun-16	-	,	-	•	-	-	29,000	•	1,40,500	61,534	-	•		-			-			'	'	1,08,304			,		-		3 69 338
			96 90 96 90 96 90 86 14	May-16	4,31,116	4,49,760	2,79,045	2,20,925	2,56,177		000'65	•		25,000	16,000	8,000	4,000		-	25,000	18,000	14,444	15,000	15,000		2,01,317	1,98,000	2,00,000	10,000			•	24 75 784
STATE OF THE PERSON NAMED IN	(B)			Apr-16	•	_		,		-	29,000		-	55,000	16,000	8,000	4,000	•	•	25,000	1					14,34,680	-			,		1,20,800	17 22 480
CONTRACTOR OF THE SERVICE CONTRACTOR OF THE		10.00 mg 10.	ItemDescription		Uniform Materials for School children	Uniform Materials Stitching Cost	School Notebooks for School Children	School Bags for School children	School Shoes for School Children	Education Assistance to school children	PTA Teachers Salary (11 Teachers)	Donations	Adopted Girl Children Education Aid	Doctor Salary (SDK)	Plant Nurse Salary (SDK)	S.R.K Dispensary Nurse Salary	S.R.K Dispensary Helper Salary	Medicines	Bio Medical Waste Removal	Environment Water Sprinkling for Dust Control	Cricket Match Prize Sponsor - Chinna Obulapuram	Cricket Match Prize Sponsor - Kayalarmedu	Kabadi Viatch Prize Sponsor - Chinna Obulapuram	Kabadi Match Prize Sponsor - Periya Obulapuram	Kabadi Match Prize Sponsor - Elavur	Gravel Supply to S.R. Kandigai Temple	Gravel Supply - R. Prabhu	Pooja Expenses - N.R.Kandigai Temple	Function Expenses - Eguvarpalayam Temple	Welfare of Contract workmen like soap, jagger & towel	Sri durga Mandhir temple	Tiles Spansor - Pothulraja Temple	Total
			Programme		1000 1000 1000 1000 1000 1000 1000 100	7.24 2.27 2.27			Education			N. S. S.			Medical					Environment	N.A.S.		Youth Sports						Others				
		:	S.No.			2	e	7	2	9	-	œ	Δī,	Ω.	0	Ħ	15		.13	14	S	9	17	18	65	50	되	22	Я	22	25	92	ŀ



58,25,866	Grand Total	
26,83,185	Others	
67,444	Youth Sports	4
75,000	Environment	3
2,27,534	Medical	2
27,72,703	Education	
Amount	Consolidated Expenses Description	S.No

THIRD PARTY ANALYSIS REPORT



TESTIMEPORT

Acsedicoby **1931** (Grenical & Stological) Recognized by 815 as 5 jep. Stological

AMBIENT AIR QUALITY SURVEY

Report No:	ECI-NN-AAQ-292/09/2016	Réport Date	20.00.2040
Customer Name & Address	M/s. OPG Power Generation OPG Nagar, Periyaobulapurar Madharpakkam Road, Gummidipoondi-601201 Tamil Nadu , India	P\/T 1/4	
Customer.Reference: ""	4540001630 Dt: 07/09/2016	Sample Reference:No.	Iron week
ample Drawn By	ECI	Sample Received On	ECI-NN-AAQ-292/09/2016
ample Collected Date	13.09.2016		15.09.2016
ty of Sample Received.	Filter Paper & 25ml Solution		15.09.2016
		Test Completed On Z	19.09.2016
Control of the Contro	Ambient Air	THE RESERVE OF THE PARTY OF THE	
ample Mark:	lear Lab		IS 5182:P14:2000(R:2005)

	CONTRACTOR OF THE PROPERTY OF	Manager Comp. Lynn. 11 and 12			
S.N	PARAMETERS	UNITS	RESULTS	TEST METHOD	Permissible limit of NAAQs Undustrial
1.	Ammonia (as NH ₃)	µg/m³			Residential) :=
2.		pg/m	< 1.0	IS 11255:Part 06:1999 RA: 2003	400
۷.	Arsenic (as As)	ng/m³	< 0.1	IS 5182:Part 22: 2004 & AAS-VGA Flame	
3.	Benzene (C ₆ H ₆)	μg/m³		Method	6.0
4.	Benzo-a-Pyrine (BaP)		< 1.0	IS 5182:Part 11:2006	5.0
5.		ng/m3	< 1.0	IS 5182:Part 12:2004	
6.	Carbon Monoxide (as CO)	mg/m ³	< 1.2	ECI-SOP-SAM-08 /Instrument Manual	1.0
	Lead (as Pb)	μg/m³	< 0.1		2.0
<u>, 7.</u>	Nickel (as Ni)	ng/m ³	< 0.1	IS 5182 Part 22: 2004	1.0
8.	Nitrogen dioxide (as NO ₂)	hg/m³		IS 5182:Part 22: 2004 & AAS Method	20
9.	Ozone (as O ₃)		11.2	IS 5182 :Part 06:2006	80
4.5		µg/m³	<9.8	IS 5182;Part 09:1974	180
10.	Particulate Matter (PM _{2.5})	µg/m³	37.5	Lab SOP No :ECI-SOP-A-21 Based on EDA	100
11.	Respirable Particulate Matter (PM ₁₀)			40 CFR Part 50 & CPCB Guide Line 2011	60
12.	Sulphus Dioxide (a. C.C.)	µg/m³	79.8	IS 5182: Part 04:1999 RA 2005	100
	Sulphur Dioxide (as SO ₂)	µg/m³	6.8	IS 5182:Part 02: 2001	100
				3,702, 2001	80

<--- End of Report --->

Verified By

Remarks :

For ENVIRO CARE INDIA PRIVATE LIMITED

(Laboratory Division)

Authorized Signatory

* MADURP CHENNAI Tol 1+91 (14) 42867084 Mobile: 9944938637

DIVISION

e-mail: ecichennal@envirocarcindia.com

Technical Manager

A.Sheik Muzibur Rahuman

Mobile: 8220015870 ⊌-ளள் . lab@envirocareindia.com

MADURAITel:+91 (452) 4355103 COIMBATORETel:+91 (422) 4205686 Mobile: 8056766966 e-mail: ecicbe@envirocareindia.com





Accredited by NABL (Grennes) & Biologically Recognized by BIS as periods 17504

AMBIENT AIR QUALITY SURVEY

Report No	ECI-NN-AAQ-293/09/2016	Report Date: 20.09.2016
Customer Name & Address	M/s. OPG Power Generation OPG Nagar, Periyaobulapura Madharpakkam Road, Gummidipoondi-601201 Tamil Nadu , India	
Customer Reference 2 4 5	4540001630 Dt: 07/09/2016	Sample Reference No ECI-NN-AAQ-293/09/2016
Sample Drawn By	ECI	Sample Received On 2 15.09.2016
Sample Collected Date:	13.09.2016	Test Commenced On \$ \$ 15.09.2016
Qty of Sample Received	Filter Paper & 25ml Solution	Test Completed On: 19.09.2016
Sample Description : 🐠	Ambient Air	Sampling Method
Sample Mark:	Near North Gate	The second secon

	A the man problem				<u> </u>
S No	PARAMETERS	UNITS	RESULTS	JEST METHOD	Permissible limits of NAAQs (Industrial) Residential)
1.	Ammonia (as NH ₃)	μg/m³	< 1.0	IS 11255:Part 06:1999 RA: 2003	400
2.	Arsenic (as As)	ng/m³	< 0.1	IS 5182:Part 22: 2004 & AAS-VGA Flame Method	6.0
3.	Benzene (C ₆ H ₆)	μg/m³	< 1.0	IS 5182:Part 11:2006	5.0
4.	Benzo-a-Pyrine (BaP)	ng/m3	< 1.0	IS 5182:Part 12:2004	1.0
5.	Carbon Monoxide (as CO)	mg/m³	< 1.2	€CI-SOP-SAM-08 /Instrument Manual	2.0
6.	Lead (as Pb)	μg/m ³ .	< 0.1	IS 5182:Part 22: 2004	1.0
7.	Nickel (as Ni)	ng/m³	< 0.1	IS 5182:Part 22: 2004 & AAS Method	20
8.	Nitrogen dioxide (as NO ₂)	μg/m³	15.6	IS 5182 :Part 06:2006	80
9.	Ozone (as O ₃)	µg/m³	<9.8	IS 5182:Part 09:1974	180
10.	Particulate Matter (PM _{2.5})	µg/m³	49.7	Lab SOP No :ECI-SOP-A-21 Based on EPA 40 CFR Part 50 & CPCB Guide Line 2011	60
	Respirable Particulate Matter (PM ₁₀)	μg/m³	87.5	IS 5182: Part 04:1999 RA 2005	100
12.	Sulphur Dioxide (as SO ₂)	µg/m³	7.3	IS 5182:Part 02: 2001	80

<--- End of Report --->

Verified By:

Remarks:

For ENVIRO CARE INDIA PRIVATE LIMITED

(Laboratory Division)

Authorized Signatory

A.Sheik Muzibur Rahuman **Technical Manager**

* MADURAL* CHENNAI Tel: +91 (44) 42867084 Mobile:9944938637

AIDIN

LAB DIVISION

e-mail: ecichennal@envirocareIndia.com

MADURAI Tel: +91 (452) 4355103 COIMBATORE Tel: +91 (422) 4206 Mobile: 8220015870 e-mail: lab@envirocareindia.com

Mobile: 8056766966

e-mail:ecicbe@envirocareindia.com





TESTHEPORT

Avoredited by **NABL** (Chemical & Biological) Recognized by BiS as new S. 14543

AMBIENT AIR QUALITY SURVEY

Report No:	ECI-NN-AAQ-294/09/2016	Report Date :: 20.09.2016
Customer Name & Address	M/s. OPG Power Generation OPG Nagar, Periyaobulapurar Madharpakkam Road, Gummidipoondi-601201 Tamil Nadu, India	
Customer Referênce	4540001630 Dt: 07/09/2016	Sample Reference No. ECI-NN-AAQ-294/09/2016
Sample Drawn By	ECI	Sample Received On 15.09.2016
Sample Collected Date :	13.09.2016	Fest Commenced On
Oty of Sample Received 5	Filter Paper & 25ml Solution	Test Completed On: 19.09.2016
Sample Description	Ambient Air	Sampling Method (2005)
Sample Mark	Near 110 KVA Switch Yard	And the state of t

S No	PARAMETERS 1	UNITS	RESULTS	TEST:METHOD	Permissible limits "of NAAQs (Industrial), Residential)
1.	Ammonia (as NH ₃)	μg/m³	< 1.0	IS 11255:Part 06:1999 RA: 2003	400
2.	Arsenic (as As)	ng/m³	< 0.1	IS 5182:Part 22: 2004 & AAS-VGA Flame Method	6.0
3.	Benzene (C ₆ H ₆)	µg/m³	< 1.0	IS 5182:Part 11:2006	5.0
4.	Benzo-a-Pyrine (BaP)	ng/m3	< 1.0	IS 5182:Part 12:2004	. 1.0
5.	Carbon Monoxide (as CO)	mg/m³	< 1.2	ECI-SOP-SAM-08 /Instrument Manual	2.0
6.	Lead (as Pb)	μg/m³	< 0.1	IS 5182:Part 22: 2004	1.0
7.	Nickel (as Ni)	ng/m³	< 0.1	IS 5182:Part 22: 2004 & AAS Method	20
8.	Nitrogen dioxide (as NO ₂)	µg/m³	18.5	IS 5182 :Part 06:2006	80
9.	Ozone (as O ₃)	μg/m³	<9.8	IS 5182:Part 09:1974	180
10.	Particulate Matter (PM 2.5)	μg/m³	41.2	Lab SOP No :ECI-SOP-A-21 Based on EPA 40 CFR Part 50 & CPCB Guide Line 2011	60
11.	Respirable Particulate Matter (PM ₁₀)	μg/m³	93.7	IS 5182: Part 04:1999 RA 2005	100
12.	Sulphur Dioxide (as SO ₂)	µg/m³	9.6	IS 5182:Part 02: 2001	80

<--- End of Report --->

Verified By:

Remarks:

FOR ENVIRO CARE INDIA PRIVATE LIMITED (Laboratory Division)

Authorized Signatory

A.Sheik Muzibur Rahuman

Technical Manager

* MADURA CHENNAI Tel: +91 (44) 42867084 Mobile: 9944938637

DIVISION

ADDE PARIE E DESCRIACIONES DE LE RECESTA DE LA COMPANION DEL COMPANION DE LA COMPANION DEL COMPANION DEL

e-mail: ecichennai@envirocareindia.com

MADURAI Tel: +91 (452) 4355103 COIMBATORE Tel: +91 (422) 4206

Mobile: 8220015870

e-mail: lab@envirocareindia.com

Mobile: 8056766966

e-mail:eclcbe@envlrocareindia.com









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Accremisaby **NARL** (Islamical systellogical) Recognizatily Bisas peris 1454.

AMBIENT AIR QUALITY SURVEY

Report No	ECI-NN-AAQ-295/09/2016	Report Date:	20.09.2016
Customer Name & Address	M/s. OPG Power Generation OPG Nagar, Periyaobulapurar Madharpakkam Road, Gummidipoondi-601201 Tamil Nadu, India	n village	
Sustomer Reference	4540001630 Dt: 07/09/2016		ECI-NN-AAQ-295/09/2016
Sample Drawn By	2005 	Sample Received On a	15.09.2016
A TANK THE STREET AND STREET STREET, STREET STREET, ST		Test Commenced English	15.09.2016
Sample Collected Date :		Test Completed On the	19.09.2016
Ony of Sample Received:	Filter Paper & 25ml Solution	Mark Control of the C	IS 5182:P14:2000(R:2005)
Sample Description:	Ambient Air	Sampling Method:	10 0 TOE.1 14.2000(11.2000)
Sample Mark	Near Security South Gate		

S.No	PARAMETERS 2 2 2	UNITS	RESULTS:	TEST-METHOD	Permissible limits of NAAQs [industrial] Residential)
	Ammonia (as NH ₃)	μg/m³	1.2	IS 11255:Part 06:1999 RA: 2003	400
2.	Arsenic (as As)	ng/m³	< 0.1	IS 5182:Part 22: 2004 & AAS-VGA Flame Method	6.0
<u> </u>		μg/m³	< 1.0	IS 5182:Part 11:2006	5.0
3.	Benzene (C ₆ H ₆) Benzo-a-Pyrine (BaP)	ng/m3	< 1.0	IS 5182:Part 12:2004	1.0
4.	Carbon Monoxide (as CO)	mg/m ³	< 1.2	ECI-SOP-SAM-08 /Instrument Manual	2.0
5.		µg/m ³	·= 0.1	IS 5182:Part 22: 2004	1.0
6.	Lead (as Pb)	ng/m ³	< 0.1	IS 5182:Part 22: 2004 & AAS Method	20
7.	Nickel (as Ni)	μg/m ³	17.2	IS 5182 :Part 06:2006	- 80
8.	Nitrogen dioxide (as NO ₂)	µg/m³	<9.8	IS 5182 Part 09:1974	180
9. 10.	Ozone (as O ₃) Particulate Matter (PM _{2.5})	hg/m³	42.7	Lab SOP No :ECI-SOP-A-21 Rased on EPA 40 CFR Part 50 & CPCB Guide Line 2011	60
<u> </u>	Respirable Particulate Matter (PM ₁₀)	μg/m³	91.2	IS 5182: Part 04:1999 RA 2005	100
11. 12.	Sulphur Dioxide (as SO ₂)	µg/m ³	<u> </u>	IS 5182:Part 02: 2001	. 80

<--- End of Report --->

Verified By :

Remarks:

For ENVIRO CARE INDIA PRIVATE LIMITED (Laboratory Division)

Authorized Signatory

A.Sheik Muzibur Rahuman Technical Manager

CHENNAI Tel: +91 (44) 42867084 Mobile: 9944938637

The residence of the property of the property

* MADURA

NOIA PRI

DIVISION

e-mail: ecichennai@envirocareindia.com

MADURALTEL:+91 (452) 4355103 COIMBATORETEL:+91 (422) Mobile: 8220015870 e-mail: lab@envirocareindia.com

Mobile: 8056766966

e-mail:ecicbe@envirocareindia.





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czredited by **NABL** (Chemical & Biological). Recognized by BIS as per IS. 14543

INDOOR AIR QUALITY SURVEY

Report No	ECI-NN-IAQ-79/09/2016	Report Date	20.09.2016		
Customer Name & Address	M/s. OPG Power Generation Pvt Ltd OPG Nagar, Periyaobulapuram village Madharpakkam Road, Gummidipoondi-601201 Tamil Nadu , India				
Castomer Reference	4540001630 Dt: 07/09/2016	Sample Reference No.3.	ECI-NN-IAQ-79/09/2016		
Sample Drawn By 3	ECI	Sample Received On	15.09.2016		
ample Collected Date:	14.09.2016	rest commenced On a Sec	15.09.2016		
hy of Sample Received.	Filter Papers & 25 ml Soln	Test Completed On	19.09.2016		
sample Description	Indoor Air	Sampling Method	IS 5182 :P14:2000(R:2005)		
ample Mark	CHP-I Conveyor Side(Middle)				

S No	PARAMETERS	UNITS	RESULTS	TEST METHOD	Permissible limits of NAACIS findustrial, Residential)
1.	Carbon Di-Oxide (CO ₂)	фрm	356	ECI-SOP-SAM-28	NA
2.	Carbon Monoxide (as CO)	mg/m³	< 1.2	ECI-SOP-SAM-08 /Instrument Manual	. 2.0
3.	Suspended Particulate Matter (SPM)	µg/m ^a	435.6	IS 5182:Part 04:1999 (Reaff 2005)	

<--- End of Report --->

Verified By : 🔌 .

Remarks: NA - Not Applicable

For ENVIRO CARE INDIA PRIVATE LIMITED

(Laboratory Division)

Authorized Signatory

A.Sheik Muzibur Rahuman Technical Manager

CHENNAI Tel: +91 (44) 42867084 Mobile:9944938637

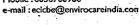
e-mail: ecichennai@envirocareindia.com

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Mobile: 8220015870

e-mail: lab@envirocareindia.com

MADURAI Tel: +91 (452) 4355103 COIMBATORE Tel: +91 (422) 420 Mobile: 8056766966







Accredited by **NABL** (chemical & Biological) Recognized by BIS as **per (5.1.1454**)

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INDOOR AIR QUALITY SURVEY

Report No:	ECI-NN-IAQ-80/09/2016	Réport Date :	20.09.2016			
Customer Name & Address	M/s. OPG Power Generation Pvt Ltd DPG Nagar, Periyaobulapuram village Madharpakkam Road, Gummidipoondi-601201 Tamil Nadu , India					
Customer Reference	4540001630 Dt: 07/09/2016	Sample Reference No :	ECI-NN-IAQ-80/09/2016			
Sample Drawn By:	ECI	Sample Received On Sample	15.09.2016			
Sample Collected Date::	14.09.2016	Test:Commenced On	15.09.2016			
Qty of Sample Received :-	Filter Papers & 25 ml Soln	Test:Completed On	19.09.2016			
Sample Description:	Indoor Air	Sampling Method ::	IS 5182 :P14:2000(R:2005)			
Sample Mark:	CHP-I Conveyor Side (North)					

5.No	PARAMETERS	UNITS	RESULTS	. JEST:METHOD	Permissible limits of NAAQs (Industrial)
1.	Carbon Di-Oxide (CO₂)	ppm	318	ECI-SOP-SAM-28	NA
2.	Carbon Monoxide (as CO)	mg/m³	< 1.2	ECI-SOP-SAM-08 /Instrument Manual	2.0
3.	Suspended Particulate Matter (SPM)	μg/m³	698.7	IS 5182:Part 04:1999 (Reaff 2005)	

<--- End of Report --->

Verified By :

Remarks: NA - Not Applicable

For ENVIRO CARE INDIA PRIVATE LIMITED

(Laboratory Division)/

Authorized Signatory

CHENNAI Tel : +91 (44) 42867084 Mobile : 9944938637

e-mail: ecichennai@envirocareindia.com

MADURAITel: +91 (452) 4355103 COIMBATORE Tel: +91 (422) 42 Mobile: 8220015870

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Mobile: 8056766966 e-mail : ecicbe@envirocareindia.cor e-mail: tab@envtrocareIndia.com





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Accredited by NABL/(Shemical & Biological) Recognized by BIS as pends (#454).

INDOOR AIR QUALITY SURVEY

Report No:	ECI-NN-IAQ-81/09/2016	Report Date	20.09.2016	
Customer Name & Address	M/s. OPG Power Generation Pvt Ltd OPG Nagar, Periyaobulapuram village Madharpakkam Road, Gummidipoondj-601201 Tamil Nadu, India			
Customer Reference	4540001630 Dt: 07/09/2016	Sample Reference No	ECI-NN-IAQ-81/09/2016	
Sample Drawn By	ECI	Sample Received On	15.09.2016	
Sample Collected Date	14.09.2016	Lest Commenced On	15.09.2016	
aty of Sample Received	Filter Papers & 25 ml Soln	Test Completed On	19.09.2016	
Sample Description:	Indoor Air	Sampling Method	IS 5182 :P14:2000(R:2005)	
Sample Mark: 9	CHP-2 4A Conveyor Side (Midd	The state of the s	10 5 102 11 14.2000(R:2005)	

S.No	PARAMETERS 2 2 2	STINU	RESULTS	TEST METHOD	Permissible limits of NAAQs (Industrial).
1:	Carbon Di-Oxide (CO₂)	mqq	372	ECI-SOP-SAM-28	NA NA
<u> </u>	Carbon Monoxide (as CO)	mg/m ³	< 1.2	ECI-SOP-SAM-08 /Instrument Manual	2.0
3.	Suspended Particulate Matter (SPM)	µg/m³	675.6	IS 5182:Part 04:1999 (Reaff 2005)	

<--- End of Report --->

Verified By:

Remarks: NA - Not Applicable

For ENVIRO CARE INDIA PRIVATE LIMITED (Laboratory Division)

Authorized Signatory

A.Sheik Muzibur Rahuman Technical Manager

CHENNAI Tel: +91 (44) 42867084 Mobile: 9944938637

Habitat Burgali (1995) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) Karasa Magazar (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) Habi Burgali (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) Magazar (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996)

e-mail:ecichennai@envirocareindia.com

Mobile: 82200/5870

e-mail: lab@envirocareindia.com

MADURAITH: +91 (452) 4355103 COMBATORE Tel: +91 (422) 4206 Mobile: 8056766966

e-mail:ecicbe@envirocareindia.com





Acceptued by **NAB** E-(Chemical & Biological) Research Resourced by BIS as per IS 5 (454

INDOOR AIR QUALITY SURVEY

Report No :	ECI-NN-IAQ-82/09/2016	Report Date 20.09.2016
Customer Name & Address	M/s. OPG Power Generation OPG Nagar, Periyaobulapurar Madharpakkam Road, Gummidipoondi-601201 Tamil Nadu, India	Pvt Ltd
Customer Référence:	4540001630 Dt: 07/09/2016	Sample Reference No. ECI-NN-IAQ-82/09/2016
Sample:Drawn By A Section	ECI	Sample Received on 15,09,2016
Sample Collected Date	14.09.2016	Jest Commenced On. 15,09,2016
Qty/of/Sample Received	Filter Papers & 25 ml Soln	Test Completed On 4 19,09,2016
Sample Description	Indoor Air	Sampling Method : IS 5182 :P14:2000(R:2005)
Sample Mark	CHP-2 4A Conveyor Side (Sou	1000 (11.2000)

S.No	PARAMETERS	UNITS	RESULTS	TEST METHOD	Permissible limits of NAAQs (Industrial Residential)
1	Carbon Dì-Oxide (CO ₂)	ppm	406	ECI-SOP-SAM-28	NA
2.	Carbon Monoxide (as CO)	mg/m³	< 1.2	ECI-SOP-SAM-08 /Instrument Manual	2.0
3.	Suspended Particulate Matter (SPM)	μg/m³	395.8	IS 5182:Part 04:1999 (Reaff 2005)	·

<--- End of Report --->

Verified By:

Remarks: NA - Not Applicable

For ENVIRO CARE INDIA PRIVATE LIMITED

(Laboratory Division)

Authorized Signatory

A.Sheik Muzibur Rahuman Technical Manager

CHENNAI Tel: +91 (44) 42867084 Mobile: 9944938637

e-mail: ecichennai@envirocareindia.com

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e-mail: lab@envirocarcindia.com

MADURAI Tol : +91 (452) 4355103 COIMBATORE Tel : +91 (422) 42066 Mobile : 8220015870 Mobile : 8056766966 Mobile: 8056766966







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Accredited by **NGBL** (Chemical & Biological) Recognized by BIS as per IS # **2**54

INDOOR AIR QUALITY SURVEY

Report No:	ECI-NN-IAQ-83/09/2016	Report Date:	20.09.2016			
Customer Name & Address		Gummidipoondi-601201				
Customer/Reference	4540001630 Dt: 07/09/2016	Sample Reference No.	ECI-NN-IAQ-83/09/2016			
Sample Drawn By:	ECI	Sample:Received:On	15.09.2016			
Sample Collected Date: -	14.09.2016	Test Commencedion	15.09.2016			
Qty of Sample Received	Filter Papers & 25 mt Soln	Test Completed On Sec.	19.09.2016			
Sample Description +	Indoor Air	Sampling Method:	IS 5182 :P14:2000(R:2005)			
Sample Mark	CHP-2 4B Conveyor Side (Nort	th)	· · · · · · · · · · · · · · · · · · ·			

S No		UNITS	RESULTS	JEST METHOD	Permissible limits of NAAQs (Industrial, Residential)
1.	Carbon Di-Oxide (CO ₂)	ppm	318	ECI-SOP-SAM-28	NA
2.	Carbon Monoxide (as CO)	mg/m³	< 1.2	ECI-SOP-SAM-08 /Instrument Manual	2.0
3.	Suspended Particulate Matter (SPM)	µg/m³	397.8	IS 5182:Part 04:1999 (Reaff 2005)	

<--- End of Report --->

Verified By :

Remarks: NA - Not Applicable

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For ENVIRO CARE INDIA PRIVATE LIMITED

(Laboratory Division

Authorized Signatory

A.Sheik Muzibur Rahuman **Technical Manager**

CHENNAI Tel: +91 (44) 42867084

Mobile: 9944938637

Mobile: 8220015870

e-mail: lab@envirocareindia.com

MADURAI Tel: +91 (452) 4355103 COIMBATORE Tel: +91 (422) 4206

Mobile : 8056766966

e-mail: ecicbe@envirocareindia.com









Accredited by NABL (Chemical & Biological)

Recognized by BIS as per as: [45.8]

STACK MONITORING

Report No:	ECI-NN-SM-283/09/2016	Report Date:	20.09.2016		
Customer Name & Address	M/s. OPG Power Generation Pvt Ltd OPG Nagar, Periyaobulapuram village Madharpakkam Road, Gummidipoondi-601201 Tamil Nadu, India				
Customer Reference	4540001630 Dt: 07/09/2016	Sample:Reference No	ECI-NN-SM-283/09/2016		
Sample Drawn By : 🦫 💮	ECI	Sample Received On	15.09.2016		
Sample Collected Date	13.09.2016	Test Commenced On :	15.09.2016		
aty of Sample Received	Thimble & 50 ml Soln	Test Completed On	19.09.2016		
Sample Description :	Stack	Sampling Method	IS :11255:P1:1985(R:2003)		
Sample Mark:	DG 500 KVA Unit III- Silencer				

S.No	PARAMETERS	UNITS	RESULTS	TEST METHOD	Max Permissible TNPCB norms for General Emission Standards
1	Ambient Temperature	°C	35	IS 11255:Part 03:2008	NA
2.	Carbon Monoxide (as CO)	% (v/v)	0.4	IS 13270:1992 (RA:2003)	1.0
3.	Flow rate	Nm³/hr	1285	IS 11255:P03:2008	NA
4.	Flue Gas velocity	m/sec	11.8	IS:11255:P03:2008	NA
5.	Hydrocarbon (HC)	% (v/v)	< 0.2	IS 13270:1992 (RA:2003)	NA
6.	Oxides of Nitrogen (as NO _{x)}	mg/Nm³	25.6	IS 11255:Part 07:2005 & IS 5182 :Part 06:2006	NA
7.	Particulate Matter (PM)	mg/Nm³	101.2	IS 11255:Part 01:1985 (RA:2003)	150
8.	Port hole Height from G Level	М	4.0		NA NA
9.	Stack Diameter at port hole	m	0.25		· NA
10.	Stack Height from G Level	m	4.0		NA NA
11.	Stack Temperature	°C	209	IS 11255:P03:2008	NA NA
12.	Sulphur Dixide (as SO ₂)	mg/Nm ³	16.7	IS 11255:Part 02: 1985 (RA:2003)	NA NA

<--- End of Report --->

Verified By:

Remarks: NA - Not Applicable

For ENVIRO CARE INDIA PRIVATE LIMITED

(Laboratory Division)

Authorized Signatory

A.Shelk Muzibur Rahuman Technical Manager

CHENNAI Tel: +91 (44) 42867084

* MADUR^r

Mobile: 9944938637

The second of the second secon

e-mail: ecichennai@envirocareindia.com

Mobile: 8220015870

e-mail: lab@envirocareindia.com

MADURAI Tel: +91 (452) 4355103 COIMBATORE Tel: +91 (422) 42061

Mobile: 8056766966

e-mail:ecicbe@envirocareindia.com





Accredited by NABL (Chemical & Biological)

Recognized by BIS as per 15 (4543)

STACK MONITORING

Report No :	ECI-NN-SM-284/09/2016	Report Date:	20.09.2016		
Customer Name & Address	M/s. OPG Power Generation Pvt Ltd OPG Nagar, Periyaobulapuram village Madharpakkam Road, Gummidipoondi-601201 Tamil Nadu, India				
Customer Reference:	4540001630 Dt: 07/09/2016	Sample Reference No	ECI-NN-SM-284/09/2016		
Sample Drawn By:	ECI	Sample Received On:	15.09.2016		
Sample Collected Date :-	13.09.2016	Test-Commenced On:	15.09.2016		
Oty of Sample Received:	Thimble & 50 ml Soln	Test Completed On	19.09.2016		
Sample Description:	Stack	Sampling Method	IS :11255:P1:1985(R:2003)		
Sample Mark:	DG 625 KVA- Silencer				

S.No		JUNITS	RESULTS	TEST METHOD:	Max Permissible TNPCB norms for General Emission Standards			
1.	Ambient Temperature	°C	35	IS 11255:Part 03:2008	NA ·			
2.	Carbon Monoxide (as CO)	% (v/v)	0.6	IS 13270:1992 (RA:2003)	1.0			
3.	Flow rate	Nm³/hr	1179	IS 11255:P03:2008	NA			
4.	Flue Gas velocity	m/sec	11.3	IS:11255:P03:2008	NA			
5.	Hydrocarbon (HC)	% (v/v)	< 0.2	IS 13270:1992 (RA:2003)	NA			
6.	Oxides of Nitrogen (as NO _{x)}	mg/Nm³	29.7	IS 11255:Part 07:2005 & IS 5182 :Part 06:2006	NA			
7.	Particulate Matter (PM)	mg/Nm ³	96.5	IS 11255:Part 01:1985 (RA:2003)	150			
8.	Port hole Height from G Level	М	8.0		NA NA			
9.	Stack Diameter at port hole	m	0.25		NA NA			
10.	Stack Height from G Level	m	8.0		NA NA			
11.	Stack Temperature	°C	231	IS 11255:P03:2008	NA NA			
12.	Sulphur Dixide (as SO ₂)	mg/Nm ³	17.2	IS 11255:Part 02: 1985 (RA:2003)	NA NA			

<--- End of Report --->

Verified By:

Remarks: NA - Not Applicable

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For ENVIRO CARE INDIA PRIVATE LIMITED

(Laboratory Division)

Authorized Signatory

A.Sheik Muzibur Rahuman **Technical Manager**

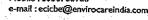
* MADURA CHENNAI Tel: +91 (44) 42867084 Mobile:9944938637

LAB OWISION

e-mail:ecichennai@envirocareindia.com

Mobile: 8220015870 e-mail: lab@envirocareindia.com

MADURAITel: +91 (452) 4355103 COIMBATORE Tel: +91 (422) 42066 Mobile: 8056766966







Accredited by **NABL** (Chemical & Biological) **Chemical Recognized by BIS as per 45**: 7**45**43

STACK MONITORING

Report No:	ECI-NN-SM-285/09/2016	Report Date: 20.09.2016	
Customer Name & Address	M/s. OPG Power Generation Pvt Ltd OPG Nagar, Periyaobulapuram village Madharpakkam Road, Gummidipoondi-601201 Tamil Nadu , India		
Customer Reference	4540001630 Dt: 07/09/2016	Sample Reference No. ECI-NN-SM-285/09/20	16
Sample Drawn By	€CI	Sample Received On 15.09.2016	
Sample Collected Date	13.09.2016	Test Commenced On : 15.09.2016	
Qiy of Sample Received	Thimble & 50 ml Soln	Test Completed On 19.09.2016	<u> </u>
Sample Description	Stack	Sampling Method: IS :11255:P1:1985(R:2	(003)
Sample Mark:	DG 500 KVA Unit I- Silencer	The state of the s	

5.No		JUNITS	RESULTS	TEST METHOD	Max Permissible INPCB norms for General Emission Standards
1	Ambient Temperature	°C	35	IS 11255:Part 03:2008	NA
2.	Carbon Monoxide (as CO)	% (v/v)	0.4	IS 13270:1992 (RA:2003)	1.0
3.	Flow rate	Nm³/hr	1214	IS 11255:P03:2008	NA NA
4.	Flue Cas velocity	m/sec	11.1	IS .11255.P03:2008	NA NA
5.	Hydrocarbon (HC)	% (v/v)	< 0.2	IS 13270:1992 (RA:2003)	NA
6.	Oxides of Nitrogen (as NO _{x)}	mg/Nm ³	21.3	IS 11255:Part 07:2005 & IS 5182 :Part 06:2006	NA
	Particulate Matter (PM)	mg/Nm ³	94.5	IS 11255:Part 01:1985 (RA:2003)	150
8.	Port hole Height from G Level	M	4.0		NA
9.	Stack Diameter at port hole	m	0.25		NA
10.	Stack Height from G Level	m	4.0		NA NA
11.	Stack Temperature	°C	207	IS 11255:P03:2008	NA NA
12.	Sulphur Dixide (as SO ₂)	mg/Nm³	15.2	IS 11255:Part 02: 1985 (RA:2003)	NA NA

<--- End of Report --->

Verified By:

Remarks: NA - Not Applicable

For ENVIRO CARE INDIA PRIVATE LIMITED (Laboratory Division)/

Authorized Signatory

A.Sheik Muzibur Rahuman Technical Manager

CHENNAI Tel: +91 (44) 42867084 Mobile: 9944938637

HOLAPRIL

LAB DIVISION

e-mail:ecichennai@envirocareindia.com

* MADURAL

Mobile: 8220015870

e-mail: lab@envirocareindia.com

MADURAI Tel: +91 (452) 4355103 COIMBATORE Tel: +91 (422) 4206 Mobile: 8056766966

e-mail:ecicbe@envirocareindiz.com







Accredited by **MABL** (Chemical & Biological) Recognized by BIS as per IS 1**45**43

STACK MONITORING

Report No :	ECI-NN-SM-286/09/2016	Report Date:	20.09.2016		
Customer Name & Address	M/s. OPG Power Generation Pvt Ltd OPG Nagar, Periyaobulapuram village Madharpakkam Road, Gummidipoondi-601201 Tamil Nadu , India				
Customer-Reference	4540001630 Dt: 07/09/2016	Sample Reference No.	ECI-NN-SM-286/09/2016		
Sample Drawn By:	ECI	Sample Received On :::	15.09.2016		
Sample Gollected Date	13.09.2016	Test Commenced On	15.09.2016		
Qty of Sample Received:	Thimble & 50 ml Soln	Test Completed On .	19.09.2016		
Sample Description:	Stack	Sampling Method	IS :11255:P1:1985(R:2003)		
Sample Mark:	DG 500 KVA Unit II- Silencer				

S No	PARAMETERS 9	UNITS	RESULTS	TEST METHOD	Max.Permissible TNPCB norms for General Emission Standards
1.	Ambient Temperature	℃	35	IS 11255:Part 03:2008	NA NA
2.	Carbon Monoxide (as CO)	% (v/v)	0.4	IS 13270:1992 (RA:2003)	1.0
3.	Flow rate	Nm³/hr	1384	IS 11255:P03:2008	NA NA
4.	Flue Gas velocity	m/sec	12.2	IS:11255:P03:2008	NA
5.	Hydrocarbon (HC)	% (v/v)	< 0.2	IS 13270:1992 (RA:2003)	NA
6.	Oxides of Nitrogen (as NO _{x)}	mg/Nm³	19.8	IS 11255:Part 07:2005 & IS 5182 :Part 06:2006	NA
7.	Particulate Matter (PM)	mg/Nm ³	89.7	IS 11255:Part 01:1985 (RA:2003)	150
8.	Port hole Height from G Level	М	4.0	***	NA
9	Stack Diameter at port hole	m	0.25		NA
10.	Stack Height from G Level	m	4.0		NA
11.	Stack Temperature	°C	139	IS 11255:P03:2008	NA
12.	Sulphur Dixide (as SO ₂)	mg/Nm ³	11.2	IS 11255:Part 02: 1985 (RA:2003)	NA

<--- End of Report --->

Verified By:

Remarks: NA - Not Applicable

For ENVIRO CARE INDIA PRIVATE LIMITED (Laboratory Division)

Authorized Signatory

LAB DIVISION * MADURA

A.Sheik Muzibur Rahuman Technical Manager

CHENNAI Tel: +91 (44) 42867084 Mobile: 9944938637

The Salls of the particular of the second of

e-mail: ecichennai@envirocareindia.com

MADURALTel: +91 (452) 4355103 COIMBATORE Tel: +91 (422) 4206 Mobile: 8220015870

e-mail: lab@envirocareindia.com

Mobile: 8056766966

e-mail: ecicbe@envirocareindia.com



FLY ASH CUSTOMER LIST

		Ff	y Ash Customer Details
S no	Name	Contact Person	Address
1	Amba Recycler	Ashok	Chennai
2	Amma Fly ash Bricks	Murali	21B, By pass road, Gummidipoondi-601201
. 3	Amman Roadways Agency Pvt Ltd	-	200A, Padmavathy complex, Salem Road, Namakkal-637001
4	B.Sekar	Sekar	Chennai
5	Hyderabad Industrial Ltd (HIL)	Sasthri	Kanigapuram, Periyapalayam, Thiruvallur
6	Kavery Industries	R.V Reddy	Nemalore, Matharapakkam
· 7	Lakshmi Agencies	Parasuraman	59/29, Arunachafam 2nd St, (Opp Sivan Kovil), Arakkonam-631001
8	Methra Industries India Pvt Ltd	Manokaran	New No: 62, Panjaliyamman kovil st, Arumbakkam, Chennai-106
9	Munusamy & Co		Chennai
- 10	Om Muruga	Prakash	No 27, Madhalaiyar st, Mannelore, Gummidipoondi Taluk, Thiruvallur-601201
11	Sastha Enterprises		Ambattur, Chennai
12	Sri Balaji Agencies	Srinivasan	Chennai
13	Sri Kameshwaran Fly Ash Bricks]	Ponneri - 601204
14	Sri Preeven Enterprises	Mony	25, Indranagar, Nanganaßur, Mathavaram, Chennai-600061
15	The India Cements Ltd	Mohammad	PSN Nagar, Dalavoi, Ariyalur-621704
16	Thirumalai Agencies	Gopal	Mathavaram
17	Ultra Tech Cements Ltd	Arulprakash	Reddypalayam Post , Reddypalayam, Ariyalur-621704
18	Vasantham Enterprises	Selvaraj	No 19, By-pass road, Gummidipoondi
19	Boomi Brick Industries		Boomi Brick Industries , Veeraraghavapuram village, Thiruvallur-602001
20	Vijay Agency		11E,21A Michael Thottam,Housing Unit, Metturdam-636401
21	Saravana Supply		GNT Road , Kavaraipettai-601206
22	Raydium Flyash Bricks		126/2A,2B Vannipakkam Village 601203 Ponneri Taluk,
23	Sri Nithya Supplier		3/33, Nagaraja kandigai village , Gummidipoondi - 601201
24	Sree Kandan Traders		Sree Kandan Traders, Veeraraghavapuram Village, Tiruvallur District -602021
25	Thirumurugan Concrete Blocks		12/3 Big street,Dhimmavaram, Chengalpattu - 603101

RAIN WATER HARVESTING REPORT

Date: 04.12.2016

RAIN WATER HARVESTING PROGRESS IN OPG THERMAL POWERPLANT

• PURPOSE:

The purpose of this report is to monitor and follow up action on the work progress on Rain water harvesting recommendations given by Mr. Chandra Reddys & Mr. Jayakumar (Ground Water).

• PROCESS:

Find below the MAJOR Recommendations.

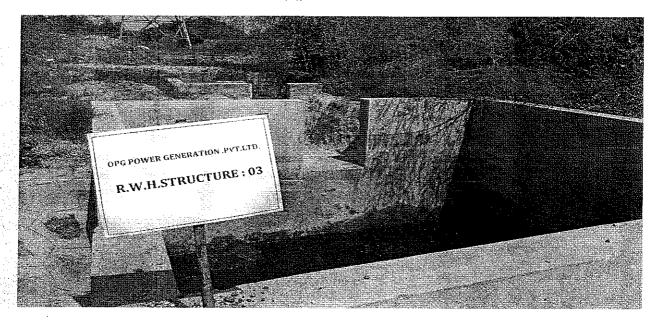
- Modification on existing Tube wells.
- Recharge Pits along with De- Silting Chamber 9 Locations.
- Infiltration Pit at regular Interval in storm water drain line.
- Existing Rain water Gutter pipes to be connected with raw water storage tank.
- Piezometer Nests to be provided 3 Locations To monitor ground water level.

• MODIFICATION ON EXISTING TUBE WELLS:

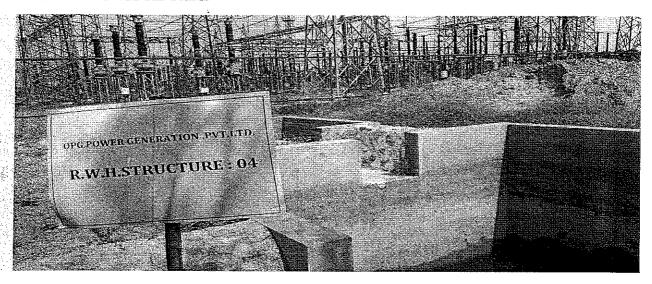
S.No	Recommended	Action taken	Reason
1	Pump capacity replacement with 5 HP	Out of 17, 15 Tube wells were replaced with 5 HP pumps	 1. 1 No of pump (Not able to replace with 5 H.P due to chock with soil) crusher house 2. 1 No is for monitoring tube well.
2	Controlled pumping	No Bore wells are running continuously more than 6 hrs. Running Hrs. schedule were prepared and logged	. ~
3	Existing Tube wells protection from entry of rain water to avoid disturbs gravel packaging, destabilize casing pipes.	It has been completed.	. -

When

• EAST SIDE OF UNIT-1 SWITCH YARD



UNIT IV SWITCH YARD



- In the entire Pits Storm water Drains to De Silting Chamber and Input to recharging Pit to be cleared. Completed
- Both the existing Recharging Pits found full of grass, to be cleared It was cleared.
- Top surface of the Existing pits has to be raised 10 15 cm to avoid silting on the pit.
- Gravels which is inside the existing Pits to be cleared off silt.
- A protective fencing has to be provided around new constructed pits.

Whiley

4. On the Store:

In the northern side of the storm water drain line, 2 or 3 infiltration pit to be constructed. Existing gutter pipes to be routed to that infiltration pit.

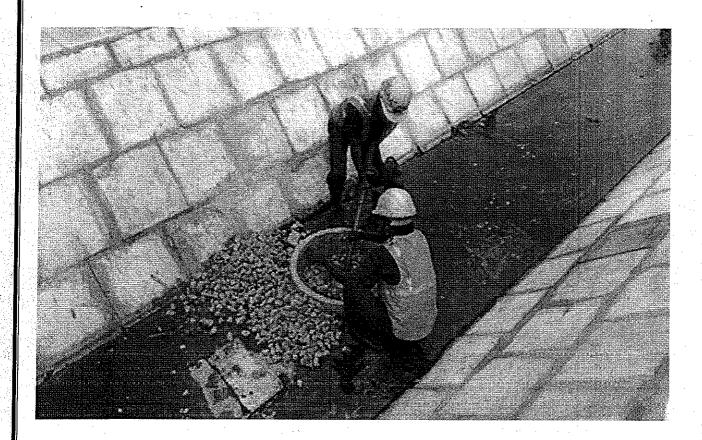
• INFILTRATION PITS

> RECOMMENDATIONS:

- ✓ There are 22 no's of infiltration pits are located in our premises in storm water drain line.
- ✓ Most of the pits are found full of grass, to be cleaned. It was cleaned.
- ✓ Gravels in the pit to be cleaned or replaced. Replaced with new gravels.
- ✓ Perimeter of the pits to be slightly increased to avoid silt deposit.

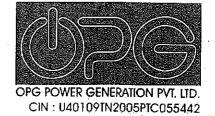
> ACTION TAKEN:

✓ Already 10 no's of the pits were cleaned.



Makey

Annual Environmental Statement Form V (2015 -2016)



OPGPG: EHS/TNPCB/CTO/2016-17/

27 - 04 - 2016

Joint Chief Environmental Engineer (M),

Tamil Nadu Pollution Control Board, Chennai Region,

77A, South Avenue Road,

Ambattur Industrial Estate,

Chennai - 600 056

Sir,

Sub: TNPCB Industries - M/s OPG Power Generation Private Limited - Submission of Environmental Statement - Reg.

We herewith submit the annual environmental statement in Form 5 for the financial year 2015-16, ending March 2016.

This is for your kind information and records please.

For any further clarification or data if required, we are at your disposal.

Thanking You.

Yours Sincerely,

For OPG Power Generation Private Limited

Govindasamy M

Head-EHS

Cc:

1. The Member Secretary, TNPC Board, Chennai-32 with Encl. for kind information

2. The District Environmental Engineer, Thiruvallore District - only copy of letter

New No. 6, Sardar Patel Road, Guindy, Chennai - 600 032. Phone: +91 44 4291 1222, Fax: +91 44 4291 1209

Website: www.opgpower.com.

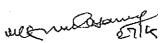
E-mail: admin@opgpower.com

SI. No.	Name of the Products		sumption per unit of tput I/kwh
		During the previous financial year	During the current financial year
	(1)	(2)	(3)
1.	Electricity	0.045 liter/kwh – Unit 1	0.073 liter/kwh – Unit 1
		0.051 liter/kwh - Unit 2	0.054 liter/kwh - Unit 2
		0.065 liter/kwh - Unit 3	0.072 liter/kwh - Unit 3
1.		Under Commission – Unit 4	0.048 liter/kwh – Unit 4

(2) Raw Material Consumption

SI. No.	Name of the Raw materials	Consumption of raw material per unit				
		During the previous financial year	During the current financial year			
1.	Blended Coal	0.80 kg/kwh -Unit 1	0.777 kg/kwhUnit 1			
		0.74 kg/kwh –Unit 2	0.740 kg/kwh –Unit 2			
		0.75 kg/kwh -Unit 3	0.748 kg/kwh –Unit 3			
		Under Commission - Unit 4	0.641 kg/kwh -Unit 4			

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



PARTE

SOLID WASTES

		Total	quantity	
	During the financi	-	During the current financial year	
(a) From process	Fly Ash Bottom Ash	141578 MT 31624 MT	Fly Ash Bottom Ash	174316 MT 40644 MT
(b) From pollution control facilities	N	1	N	il
(c) (1) Quantity recycled or re-utilised with in the unit	Ni	ľ	N	il
(2) Sold	Fly Ash Bottom Ash	141578 MT 31624 MT	Fly Ash Bottom Ash	174316 MT 40644 MT
(3) Disposed	Nil		Ni	l

PART F

Please specify the characterization (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adapted for both these categories of wastes.

- Hazardous waste production: Approximately 1000 kg of used/spent oil of all 4 units disposed to authorized recycler.
- Dry Fly ash and Bottom ash Disposal Practice:

Dry Fly ash : 100% disposal to end-user – Cement industries & brick making

Dry Bottom ash: 100% disposal to end-user - Filling for Road laying & Brick making

Typical Fly ash analysis:

Unburnt carbon: <1% SiO2: 58 % Al2O3: 24 % Fe₂O₃: 6 % CaO: 2 % MgO: 1 %

TiO2: 1.1 % Na2O: 0.5 % K2O: 1 %

P2O5: 0.1 % SO3: 5 %

OPG Power - Environment Statement - 2015-16

Page 4

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PART I

Any other particulars for improving the quality of environment

- a) Green belt is developed in more than 33% of the total area and this task is kept in continual improvement
- b) ISO 14001: 2004 Environment Management System and OHSAS 18001:2007 Occupational Health & Safety Accreditation System certificates were obtained and the systems are maintained well.
- Rainwater harvesting by infiltration-recharge pits and open ponds were established based on independent hydrological study
- c) 100% disposal of fly ash and bottom ash are being ensured.
- d) All the noise generating equipment were covered with acoustics to avoid the noise pollution
- e) Wind shield around the Coal Stock yard was replaced, since it got damaged in the heavy rain.
- f) RO based effluent treatment plant is commissioned and the treated effluent water is recycled in the process, which reduced the raw water consumption to 50%.

all magning

LDO Storage License copy



Government of India वाणिजय और अद्भाग संग्रस्य Ministry of Commerce & Industry बद्दोलयम तथा विस्पोदक सुरक्षा समझ्स (देसी) Petrosum & Expineives Safety Organisation (PESO) नायक तल, ए-काक, की.जी.ओ.काम्प्लेक्स, सीमेनरी हिल्स लासपुर, 449005 नासपुरः ववश्यक 5th Ftoor, A-Block, CGO Complex, Seminary Hills. Nagpur - 449006

> E-mai: explosives@explosives.gov.in Phone:Fax No. 0712 -2510248, Fax-2510077

> > 発酵本 (Daled 08/01/2015

NEST INC PHONTH/15/4795 (P226617)

Mis: Mis OPG Power Generation Pvt. Ltd., 167 St. Marys Road Alwarpet, District: CHENNAL State: Tamil Nadu PIN 600018

विषय (Sub Piot No. S. No. 19572A, NA. Pappankuppam, Taluka Thiruvallur, District: THIRUVALLUR, State; Tamil Nadu. PIN: 999999 में नियत पेट्रोलियम वर्ग 🖰 अधिस्वापन अर्थोलियम नियम 1002 के अंतर्गर प्रस्य XV में जारी अनुभवित से PHO/IN/15/4786 (P226617) संशोधस के सदर्भ में ।

Existing Perceion Class 5 (haracterion at Plot No. 5 No. 195/2A, NA, Pappankuppam, Taluka: Thirdvalfur, District: THIRDVALLUR, State, Tamil Nadu, PIN: 999999 (http://pin/194786 (P226517) granted others XV Januar Patroleum Rules 2002 - Amenoment regarding

अहोदय ःि

कृषया आपक उपर्युक्त विषय सं संबंधित पत्र सक्तवा OPGPG/JMD/CCOe/1443/14-15 दिसांक 05/01/2014 का संदर्भ ग्रहण करें ।

Reference to your latter No. OPGPGIJMD/CCOe/1443/14-15 dated 05/01/2014 on the above subject

दिलांक 31/12/2019 तक वैथ अनुजनित सक्या P/HQ/TN/15/4786 (P225517) दिलांक 08/01/2015 जिम्लासिवित कर पर मात्राओं में पेट्रोलियम अवारण के लिए यथा संशोधित कर इस पत्र के साथ जीटाई जा रही है Licence No. P/HQ/TN/15/4786 (P226517) dated 95/01/2015 valid upto 31/12/2019 is returned herawith duly amended with respect to Capacity Amendment

देशीवियम का विकास /Description of Petitisaum

किसोसंदर्ध से सम्मानित समता (Quantry scences n

डम क प्रपुत्र वेट्रिनियम (Petroleum Class A in buck कर्म क प्रयंत्र पेट्रेजियम से जिल्ला Perroleon Class A chanwise than in bulk हर्ग स प्रमुख पेट्रांलियम अesteleum Class है अध्यक्ष दर्भ छ प्रयुत पेट्रेस्तियम दे जिल्ला iPetroloum Class S. otherwise than in bulk दर्श म प्रयुक्त चेट्टिसम्म (Petroleum Class C in bulk ath क क्यूज वेद्राविक्स के किस्त Petroleum Class C otherwise than in bulk

271.00 Ki. Nic NI.

NII.

2.22

NIL.

271.00 KL

कुल क्षगता /Tata

कुषवा पावती है।

Please acknowledge the receipt

Note: Your Balance Arrount with the Organisation is Received, which will be used for processing of the same Licence in future

NACIA Proces feelings

(भार पे सिंह) (R.P.Singh) उप मुख्य विस्कॉटक सियंबक Dy. Chief Controller of Explosives क्रमें मुख्य विस्कॉटक नियंबस For Chief Controller of Explosives

Copy forwarded to .
1. The The District Revenue Officer: Truvallur (T.N.). THIRUVALLIR (Tami: Nadu) with reference to his NOC Notice 97212/06 M3. Dated 17/06/2009

2. If Chief Controller of Explosives, South Cycle Office, CHENNAL A Copy of the Ecence along with approved plan is enclosed.

3. Dy. Chief Controller of Explosives, Swakasi, ViRUDHUNAGAR: A Copy of the Ecence along with approved plan is enclosed.

Por Chief Controller of Explosives... Nagpur

(अग्रिक जासकारी जैसे आवेदन की स्थिति शुक्क तथा अन्य विवरण के लिए हमारी वेंब्साइट http://peso.gov.in.देखें) (For more information regarding status fees and other details please was buy website; hato lipeas gov (in)

AMBIENT NOISE LEVEL (April 2016-Sep 2016)

				Jul-16				
Date		Day Tir	ne in db		T	Night Ti	me in db	
	North	South	East	west	North	South	East	T
07.07.16	51.4	52	52.4	F2.0	 			west
15.07.16	51.8	51.4	51.8	52.8	41.1	42.4	42.6	42.1
24.07.16	52.1	51.6		52.4	41.8	42.2	42.2	42.8
31.07.16	52.6	52	52	52.2	42.4	41.8	41.4	41.8
Limits			52.2	51.8	41.8	42.1	42.2	42
		< 55 i	n ab			< 45 i		

				Aug-16				
Date		Day Tir	ne in db		<u> </u>	Night Ti	me in db	
	North	South	East	west	North	South	East	140-4
07.08.16	51.2	51.8	52.2	52.8	40.	<u> </u>	Lust	west
16.08.16	50.1	51.2	51.6		42.4	42.6	42.2	42.1
24.08.16	50.4	50.1		50.4	41.8	42.2	41.8	41.6
31.08.16	50.4		51.2	51.2	42.4	41.8	42	42
Limits	30.4	51.2	50.8	51	41.8	41.4	41.8	
		< 55 i	n db		< 45 j		41.8	

				Sep-16		·		
Date	 	Day Tin	ne in db		Night Ti	me in db		
	North South	East	west	North	South	East	T	
02.09.16	51	52	52.1	54.2	ļ		Lasi	west
10.09.16	52	51.2		51.2	42.1	42.1	42.6	42
18.09.16	51		52	52.2	44.1	42.8	42	41
27.09.16		51	54	52	42.1	41.8		
	31.4			51.4	41.8			
27.09.16 Limits	51.4	51.2 < 55 i	52.8 n db	41.8	41.8 42.2 < 45 i	44.1 44.2 n db	42.	

When

AMBIENT NOISE LEVEL MONITORING (APRIL 2016 – SEPTEMBER 2016)

		<u> </u>		Apr-16		~ 		
Data	 	Day Tir	ne in db	<u></u>	Night Time in db			
Date	Date North		East	west	North	South	East	T
05.04.16	51.4	52.1	51.8	F0.0			Last	west
13.04.16	50.2	51.4	50.4	50.8	42.1	41.8	42.1	41
20.04.16	50.1	51.2		51.2	41.2	40.6	41.8	40
26.04.16	52.1	51.6	50.6	51.5	41.3	40.8	41.3	40
Limits	32.1		50.3	51.8	41.3	40.2	41.7	40
		<u> </u>		< 45 i				

	г			May-16	5			
Date		Day Tin	ne in db	T	Night Ti	me in db		
North		South	East	west	North	South	East	luo st
03.05.16	51.8	51.4	52.1	F1.4	 		Last	west
15.05.16	51.3	51.7		51.1	41.8	42.8	41.8	42.3
21.05.16	51.4		51.9	52.3	41.2	42.6	41.1	42.1
		51.2	51.2	52.7	41.7	42.3		
31.05.16	51.7	51.6	51.8	53.6			41.7	42.7
Limits		< 55 i			41.5	42.7 < 45 i	41.5	42.5

				Jun-16				
Date		Day Tin	ne in db		Night Ti	me in db		
Date	North	South	East	west	North	South	East	west
04.06.16	51.2	51.6	51.7	50.8				West
15.06.16	50.8	52.8			45.3	42.1	42	42.2
22.06.16	51.2		51.2	51.8	42.1	42.1	41.9	41.8
26.06.16		51.4	50.8	51.2	41.8	42.4	42	42.2
	50.2	50.8	48.2	50.9	41.2	42.6		
imits	< 55 in db				41.2 42.6 41.8 42 < 45 in db			

Wholew -