Oil and Natural Gas Corporation Limited
HSE Section, Cauvery Basin
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No. CB/HSE/MoEF compliance/2016-17 **Wednesday, 23 November 2016**

From: GM (C & M)-I/c HSE

To : The Additional Principal Chief Conservator of Forests (C),
Ministry of Environment and Forests,
Regional Office, No. 34, Cathedral Garden Road,
Nungambakkam, Chennai.

Sub:- Six monthly compliance report for the period from 01.4.2016 to 30.9.2016
Ref: - EC No. F. No. J-11011/188/2013-1A II (1) dated 10th Sept. 2015.

This is with reference to the EC granted by MoEF for NELP - VI Block of Cauvery Basin, Chennai indicating Environment Compliance to General and special conditions therein. In this regard, the following documents are enclosed:

- Compliance status of NELP – VI Block of Cauvery Basin
  EC No. F. No. J-11011/188/2013-1A II (1) dated 10th Sept. 2015.

Regards,

23/11/16
(S. Velu)
GM (C & M)-I/c HSE

Encl: As above

O/C

Compliance to the Environment Clearance issued by MOEF Vide ltr. No. I. No. J-11011/188/2013-1A II (1) dated 10th Sept. 2015
For the period 01.04.2015-30.9.2016

Sl. No.	Specific Conditions	Compliance/Comments
1.	The present EC is only for Exploratory drilling. In case Development drilling is to be done in future, prior clearance must be obtained from the Ministry.	In case development drilling is to be done in futu prior clearance will be obtained from the Minist
2.	Gas produced during testing shall be flared with appropriate flaring booms. This flare system shall be designed as per good oil field practices and Oil Industry Safety Directorate (OISD) guidelines. The stack height shall be provided as per the regulatory requirements and emissions from stacks will meet the MoEF/CPCB guidelines.	The flare system is designed as per the guideline Oil Industry Safety Directorate [OISD]. No flare stacks are used during production testin exploratory wells and only flare pipes are used as testing lasts only for a few days and flaring is d for a few hours/day. Flare stacks are used onl permanent oil installations.
3.	Ambient air quality shall be monitored near the closest human settlements as per the National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No.826(E) dated 16th November, 2009 for PM_{10}, $PM_{2.5}$, SO_2, NO_X, CO,CH_4, methane & Non-methane HC etc.	Ambient air quality around the Drill site monitored for PM_{10}, PM25, SO2, NOx, Methane and non-methane HC, etc., by M/s. Hu Enviro, Chennai (NABL Accredited and recogni by MoEF) near the closest Human settleme **(Annexure- 1)**
4.	Mercury shall also be analysed in air, water and drill cuttings twice during drilling period.	Chemicals used for drilling mud were tested found no traces of Mercury. However mercury analysed in air, water and drill cuttings twice du drilling period. In ONGC operations there is source of Hg emissions. (**Annexure** - 2)
5.	Approach road shall be made pucca to minimize generation of suspended dust.	Approach Road was made from the nearest main road to the drill site and the distance varies from 200 m to 1 KM having a width of 4 m on an average,
6.	The company shall make the arrangement for control of noise from the drilling activity. Acoustic enclosure should be provided to DG sets and proper stack height should be provided as per CPCB guidelines.	Noise level monitored by M/s. Hubert Env Chennai (NABL Accredited and recognised MoEF) and the report is enclosed. Acoustic enclosures are provided in DG sets; Th stack height meets the regulatory requirements. 11.17 M height stack have been provided and the stack emission has been monitored by the above third party. (**Annexure-3**)
7.	Total water requirement shall not exceed 25 m^3/day and prior permission shall be obtained from the concerned agency.	Drill water is supplied by contractor to ONGC by road tankers, which was from surface sources.
8.	The company shall construct the garland drain all around the drilling site to prevent runoff of any oil containing waste into the nearby water bodies. Separate drainage system shall be created for oil contaminated and non-oil contaminated. Effluent shall be properly treated and treated wastewater shall conform to CPCB standards.	Garland canal is constructed all around the drill and the drainage system is designed to prev mixing of oil contaminated and non-oil contamina waste. Effluent water from drill site is transported tankers to the nearest ONGC's ETP for treatment disposal.
9.	Drilling wastewater including drill cuttings wash water shall be collected in disposal pit lined with	Drill cuttings, drilling fluids and washings

	HDPE lining evaporated or treated and shall comply with the notified standards for on-shore disposal. The membership of common TSDF should be obtained for the disposal of drill cuttings and hazardous waste. Otherwise, secured land fill shall be created at the site as per the design approved by the CPCB and obtain authorization from the SPCB. Copy of authorization or membership of TSDF shall be submitted to Ministry's Regional Office at Chennai.	collected in HDPE lined waste pits to percolation into soil. The liquid is allowed for evaporation and the solid component is covered a layer of local excavated soil. The membership of TSDF obtained Copy attach **(Annexure-4)**
10.	Good Sanitation facility shall be provided at the drilling site. Domestic sewage shall be disposed off through septic tank/soak pit/STP.	Good sanitation facility is provided at all the dr sites. The sewage are disposed off through sept tank/soak pit.
11.	Oil spillage prevention scheme shall be prepared. In case of oil spillage/contamination, action plan shall be prepared to clean the site by adopting proven technology. The recyclable waste (oily sludge) and spent oil shall be disposed of to the authorised recyclers.	Oil spillage contingency plan is in place and v oil disposed to MSTC Ltd., (Govt. of I Enterprise)--TNPCB authorised waste oil rec through central store at Karaikal. **(Annexure-5)**
12.	The company shall comply with the guidelines for disposal of solid waste, drill cutting and drilling fluids for onshore drilling operation notified vide GSR.546 (E) dated 30th August, 2005.	Drill cuttings, drilling fluids and washings collected in HDPE lined waste pits to a percolation into soil. The liquid is allowed for s evaporation and the solid component is covered a layer of local excavated soil.
13.	The Company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. Possibility of using ground flare should be explored. At the place of ground flaring, the overhead flaring stack with knockout drums shall be installed to minimize gaseous emissions during operation.	Fire protection equipment and Oil spill continge plan is kept in place. Production testing is carried only for few days and the flaring is restricted to hours only.
14.	The company shall develop a contingency plan for H_2S release including all necessary aspects from evacuation to resumption of normal operations. The workers shall be provided with personal H_2S detectors in locations of high risk of exposure along with self-containing breathing apparatus.	There is no hydrogen sulphide presence in the bl However Hydrogen sulphide contingency plan i place and all personnel operating in environment are provided with detectors and SC
15.	Blow Out Preventer (BOP) system shall be installed to prevent well blowouts during drilling operations. BOP measures during drilling should focus on maintaining well bore hydrostatic pressure by proper pre-well planning and drilling fluid logging etc.	Blowout preventer is installed and Primary well control is achieved through proper well planning
16.	Emergency Response Plan (ERP) shall be based on the guidelines prepared by OISD, DGMS and Govt. of India.	ERP as per Guidelines of OISD, DGMS and G of India is in place.
17.	The company shall take measures after completion of drilling process by well plugging and secured enclosures, decommissioning of rig upon abandonment of the well and drilling site shall be restored to the original condition. In the event that no economic quantity of hydrocarbon is found a	Drilling work has been completed at 01 v location. None of the wells are declared abandoned.

	full abandonment plan shall be implemented for the drilling site in accordance with the applicable Indian Petroleum Regulations.	
18.	Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules	Occupational Health surveillance of the workers i carried out as per the Mines Act.
19.	Abandoned well inventory and remediation plan shall be submitted within six months from the date of issue of letter.	Drilling work has been completed at 01 w location. None of the wells are declared abandoned.
20.	In case the commercial viability of the project is established, the Company shall prepare a detailed plan for development of oil and gas fields and obtain fresh environmental clearance from the Ministry	In case of Commercial availability of Hydrocarbo Environment clearance for development wells wi be obtained from MoEFCC
21.	Restoration of the project site shall be carried out satisfactorily and report shall be sent to the Ministry's Regional Office at Chennai	During the reporting period, no well, has be declared abandoned.
22.	Oil content in the drill cuttings shall be monitored by some Authorised agency and report shall be sent to the Ministry's Regional Office at Chennai.	Oil content in drill cuttings was monitored by M Hubert Enviro Services, Chennai (NABL Accredit and recognised by MoEF) and the report is enclos **(Annexure- 6)**
23.	All the commitments made to the public during public hearing/ public consultation meeting held on 20th October, 2014 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.	There were no demand from the Public Hearing.
24.	Atleast 5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office. Implementation of such program shall be ensured accordingly in a time bound manner.	5% of the cost of the project, proportional to the w has been earmarked towards the Enterprise Soc Commitment. Basic social needs have be identified and the NGOs are being identified implementation. However an amount of Rs.23,59,528/ has been spent around the operatio area.
25.	Company shall prepare operating manual in respect of all activities. It shall cover all safety & environment related issues and system. Measures to be taken for protection. One set of environmental manual shall be made available at the drilling site/project site. Awareness shall be created at each level of the management. All the schedules and results of environmental monitoring shall be available at the project site office.	The company has SOP (Standard Operati Procedures) in place for all onshore operatic covering all aspects of the operations. In addition, personnel are trained at ONGC's Institute Petroleum Safety, Health and Environm Management, Goa. SOP are available at drill-sit All the results of environmental monitoring will available at the project site office/uploaded company's public domain.
GENERAL CONDTIONS		
1.	The project authorities must strictly adhere to the stipulations made by the Tamil Nadu Pollution Control Board (TNPCB), State Government and any other statutory authority.	CTO been obtained from Tamilnadu pollut Control Board for the 01 wells i.e., NPAF drilled dur the reporting period. **(Annexure-7).**

2.	No further expansion or modification in the project shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Agreed & shall be complied.
3.	The project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 2000 as amended subsequently. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained, wherever applicable.	ONGC is the member of the TSDF. .(Annexure As per the latest notification of Hazardous Wa Rules(Management &Handling and Trans-bounda Movement Rules) 2016 only the drill cutti excluding water based mud, drilling mud containi oil and sludge containing oil are declared hazardous. Since, ONGC is using water based mu the drilling mud is not containing oil and the slud is not generated ,the above rule is applicable.(**Annexure-4A**)
4.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dB (A) (daytime) and 70 dB(A) (night time).	Noise levels were measured by M/s. Hubert Env Services, Chennai (NABL Accredited a recognised by MoEF) and are within limits. **(Annexure- 3)**
5.	A separate Environmental Management Cell equipped with full-fledged laboratory facilities must be set up to carry out the environment management and monitoring functions	A separate Environmental Management Cell exis Environmental monitoring is done through Mol recognized and NABL accredited labs.
6.	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	No suggestions/representations were received fr any Panchayat, Zillah Parishad/Municip Corporation, Urban local body and the local NG The clearance letter is uploaded in the Company website.
7.	The project proponent shall upload the status of compliance of the stipulated environment 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 TNPCB, The criteria pollutant levels namely: SPM, RSPM, SO2, NOx, HC (Methane& Non-Methane), VOCs (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be	The status of compliance of stipulated Environme clearance conditions including the results of t monitored data are sent to the regional office of t MOEF, the respective Zonal office of CPCB and t TNPCB and are being uploaded. All the results of environmental monitoring are bei displayed at the drill-site and uploaded in company public domain.

4

	monitored and displayed at a convenient location near the main gate of the company in the public domain.	
8.	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF, the respective Zonal Office of CPCB and the TNPCB. The Regional office of this Ministry /CPCB/TNPCB shall monitor the stipulated conditions.	Six monthly reports are being sent to Regional of MOEF, Chennai
9.	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	Being submitted regularly for installations & r Environmental Statement - Form V already sen the respective District PCB and is being uploade company's website.
10.	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of clearance letter are available with the TNPCB and may also be seen at the website of Ministry of Environment and Forests at http:/envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional Office.	The advertisement is given two leading dailies D mani in Tamil and Indian Express on 02.10.15 the same was sent to RO of MoEFCC, Chen Copies already submitted along with1 ear compliance report to RMoEF&CC
11.	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work	The project is still in progress. Shall be informec MoEF after the completion of the project.

4.0 AMBIENT AIR QUALITY STATUS

4.1 Preamble

The objective of the Ambient Air Quality monitoring is to assess the existing levels of air pollutants as well as the regional background concentration in the project area. Air pollution forms an important and critical factor to study the environmental issues in the project areas. Air qualities have to be frequently monitored to know the extent of pollution due to mining and allied activities. Thus, ambient air quality monitoring was carried out at 2 locations. The ambient air quality monitoring stations are given.

AMBIENT AIR MONITORING STATIONS

Sl.No.	Location Name	Location Code
1.	Near Main Gate	AAQ-1
2.	Near DG Area	AAQ-2

4.2 Data Presentation

The Ambient Air Quality data in terms of PM,PM_{10}, $PM_{2.5}$, SO_2, $NO_2$and CO are given in Table.

Annexure - 1

TEST REPORT- AAQ1

Sample Description : **Ambient Air**
Sampling Mark : **UP Wind (Near Main Gate)**
Sample Drawn By : **Hubert Enviro Care Systems Private Limited**
Sampling/Received Date : **23/12/2015 – 24/12/2015**
Analysis Commenced On : **24/12/2015**

S.No.	Parameters	Units	Results Obtained			Test Method	NAAQ Standards : 2009	
			06.00 - 14.00	14.00 – 22.00	22.00 – 06.00			
1	Sulphur Dioxide	µg/m³	11.36	10.86	11.80	IS : 5182 (P-2):2001(Reaff 2006)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	22.43	23.60	22.06	IS: 5182 (P-6):2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	50.13	52.50	55.33	IS: 5182 (P-23):2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	21.75	23.64	22.79	HECS/AIR/Ambient/SOP011	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BDL(DL 0.005)	BDL(DL 0.005)	BDL(DL 0.005)	IS : 5182 (P-10) 1999(Reaff 2003)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BDL(DL 0.05)	BDL(DL 0.05)	BDL(DL 0.05)	IS: 5182 (P-22) 2004(Reaff 2009)	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	BDL(DL 10)	BDL(DL 10)	BDL(DL 10)	HECS/AIR/Ambient/SOP013	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	BDL(DL 5)	BDL(DL 5)	BDL(DL 5)	HECS/AIR/Ambient/SOP012	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BDL(DL 1)	BDL(DL 1)	BDL(DL 1)	IS: 5182 (P-11):2006(RA 2009)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BDL(DL 1)	BDL(DL 1)	BDL(DL 1)	IS: 5182 (P-12) 2004(RA 2009)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BDL(DL 1)	BDL(DL 1)	BDL(DL 1)	HECS/AIR/Ambient/SOP014	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BDL(DL 5)	BDL(DL 5)	BDL(DL 5)	HECS/AIR/Ambient/SOP007	20 (Annual)	20 (Annual)
13	Hydrocarbons	ppb	945	952	948	IS 5182 Part 21 : 2001	NA	NA
14	Non Methane Hydrocarbons	ppb	571	530	526	IS 5182 Part 21 : 2001	NA	NA
15	Hydrogen Sulphide	µg/m³	BDL(DL 6)	BDL(DL 6)	BDL(DL 6)	IS 5182 Part 7 : 2003	NA	NA
16	Mercury	ng/m³	BDL(DL 1)	BDL(DL 1)	BDL(DL 1)	NIOSH 6009	NA	NA
17	TVOC	ppm	1.2	1.4	1.3	PID Method	NA	NA
18	SPM	µg/m³	84.3	86.9	85.1	IS 5182 Part 4 1999	NA	NA

Note:-BDL -Below Detection Limit, D.L-Detection Limit, µg/m³-Micrograms per cubic meter, mg/m³-Milligrams per cubic meter, ng/m³-Nanograms per cubic meter.

End of Report

Annexure - 1

TEST REPORT – AAQ2

Sample Description : **Ambient Air**
Sampling Mark : **Down Wind (Near DG Area)**
Sample Drawn By : **Hubert Enviro Care Systems Private Limited**
Sampling/Received Date : **23/12/2015 – 24/12/2015**
Analysis Commenced On : **24/12/2015**

S.No.	Parameters	Units	Results Obtained			Test Method	NAAQ Standards : 2009	
			06.00 - 14.00	14.00 – 22.00	22.00 – 06.00			
1	Sulphur Dioxide	µg/m³	11.10	9.63	12.06	IS : 5182 (P-2):2001(ReatT:2006)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	22.84	23.67	21.33	IS: 5182 (P-6):2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	50.75	55.06	52.10	IS: 5182 (P-23):2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	22.40	26.90	24.80	HECS/AIR/Ambient/SOP011	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BDL(DL 0.005)	BDL(DL 0.005)	BDL(DL 0.005)	IS : 5182 (P-10) 1999(ReatT:2003)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BDL(DL 0.05)	BDL(DL 0.05)	BDL(DL 0.05)	IS: 5182 (P-22) 2004(ReatT:2009)	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	BDL(DL 10)	BDL(DL 10)	BDL(DL 10)	HECS/AIR/Ambient/SOP013	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	BDL(DL 5)	BDL(DL 5)	BDL(DL 5)	HECS/AIR/Ambient/SOP012	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BDL(DL 1)	BDL(DL 1)	BDL(DL 1)	IS: 5182 (P-11):2006(RA:2009)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BDL(DL 1)	BDL(DL 1)	BDL(DL 1)	IS: 5182 (P-12): 2004(RA:2009)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BDL(DL 1)	BDL(DL 1)	BDL(DL 1)	HECS/AIR/Ambient/SOP014	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BDL(DL 5)	BDL(DL 5)	BDL(DL 5)	HECS/AIR/Ambient/SOP007	20 (Annual)	20 (Annual)
13	Hydrocarbons	ppb	921	940	935	IS 5182 Part 21 : 2001	NA	NA
14	Non Methane Hydrocarbons	ppb	540	526	532	IS 5182 Part 21 : 2001	NA	NA
15	Hydrogen Sulphide	µg/m³	BDL(DL 6)	BDL(DL 6)	BDL(DL 6)	IS 5182 Part 7 : 2003	NA	NA
16	Mercury	ng/m³	BDL(DL 1)	BDL(DL 1)	BDL(DL 1)	NIOSH 6009	NA	NA
17	TVOC	ppm	1.8	1.5	1.7	PID Method	NA	NA
18	SPM	µg/m³	96.3	94.9	98.4	IS 5182 Part 4 1999	NA	NA

Note:-BDL -Below Detection Limit, D.L-Detection Limit, µg/m³-Micrograms per cubic meter, mg/m³-Milligrams per cubic meter, ng/m³-Nanograms per cubic meter.

End of Report

ANNEXURE - 2

TEST REPORT – Drilling Fluid Chemical

Sample Description : **Powder**
Sampling Mark : **Lime Stone Powder**
Sample Drawn By : **Hubert Enviro Care Systems Private Limited**
Sampling/Received Date : **23/12/2015 – 24/12/2015**
Analysis Commenced On : **24/12/2015**

S.No.	Parameters	Units	Results	Test Method
1	Cadmium	mg/kg	BDL(DL 0.1)	USEPA Method
2	Mercury	mg/kg	BDL(DL 0.1)	USEPA Method

Note:-BDL – Below Detection Limit, DL- Detection Limit, mg/Kg- Milligrams per kilogram.

Annexure - 2

TEST REPORT

Sample Description : **Water**
Sample Drawn By : **Hubert Enviro Care Systems Private Limited**
Sampling/Received Date : **23/12/2015 – 24/12/2015**
Analysis Commenced On : **24/12/2015**

S.No.	Parameters	Units	GW 1	GW 2	SW1	SW2	Test Method
1	pH (at 25 °C)	-	7.64	7.96	7.41	7.22	IS 3025 (Part11)-1983(Reaff 2006)
2	Colour	Hazen Unit	BDL(DL 1)	BDL(DL 1)	BDL(DL 1)	BDL(DL 1)	IS 3025(Part 4)-1983(Reaff 2006)
3	Turbidity	NTU	BDL(DL 0.1)	5.0	BDL(DL 0.1)	3.0	IS:3025 (Pt-10)-1984(Reaff 2006)
4	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)-1983,Reaff 2006
5	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	IS 3025 (Part7&8)-1984(Reaff 2006)
6	Total Hardness as CaCO3	mg/l	340.0	320.0	330.0	310.0	IS 3025 (Part21)-1983(Reaff 2006)
7	Calcium as Ca	mg/l	92.18	96.19	88.17	96.19	IS 3025 (P40)-1991(Reaff 2009)
8	Total Alkalinity as CaCO3	mg/l	290.0	310.0	300.0	300.0	IS 3025,1 (Pt 23)-1986(Reaff 2009)
9	Chloride as Cl	mg/l	49.98	54.98	59.98	59.98	IS 3025 (Pt 32) 1988(Reaff 2009)
10	Residual free Chlorine	mg/l	BDL(DL 0.1)	BDL(DL 0.1)	BDL(DL 0.1)	BDL(DL 0.1)	IS 3025 (Pt 26)-1986(Reaff 2009)
11	Cyanide as CN	mg/l	BDL(DL 0.01)	BDL(DL 0.01)	BDL(DL 0.01)	BDL(DL 0.01)	IS 3025 (Part27)-1986 Reaffirmed 2009
12	Magnesium as Mg	mg/l	26.73	19.44	26.73	17.01	IS 3025 (Pt 46)-1994(Reaff 2009)
13	Total Dissolved Solids	mg/l	461.0	474.0	475.0	480.0	IS 3025 1(Pt 16)-1984(Reaff 2006)
14	Sulphate as SO4	mg/l	73.45	71.10	75.24	82.52	IS 3025(Pt 24) 1986(Reaff 2009)
15	Fluoride	mg/l	0.49	0.47	0.56	0.51	IS 3025 part(60):2008
16	Nitrate as NO3	mg/l	3.26	4.24	3.58	4.92	ASTM(part 31)1978
17	Iron as Fe	mg/l	BDL(DL 0.02)	0.12	BDL(DL 0.02)	BDL(DL 0.02)	IS 3025 (Pt 53)-2003(Reaff 2009)
18	Aluminium as Al	mg/l	BDL(DL 0.02)	BDL(DL 0.02)	BDL(DL 0.02)	BDL(DL 0.02)	IS 3025 (Pt 55)-2003(Reaff 2009)
19	Boron as B	mg/l	BDL(DL 0.1)	BDL(DL 0.1)	BDL(DL 0.1)	BDL(DL 0.1)	IS:3025 (Part-57):2003(Reaff 2009)
20	Phenolic Compounds	mg/l	BDL(DL 0.001)	BDL(DL 0.001)	BDL(DL 0.001)	BDL(DL 0.001)	IS 3025 (Part 43)1992,Reaff 2009
21	Anionic Detergents as MBAS	mg/l	BDL(DL 0.05)	BDL(DL 0.05)	BDL(DL 0.05)	BDL(DL 0.05)	Annexure K of IS 13428-2005
22	Zinc as Zn	mg/l	BDL(DL 0.01)	BDL(DL 0.01)	BDL(DL 0.01)	BDL(DL 0.01)	IS 3025 (Part49)-1994(Reaff 2009)
23	Chromium as Cr	mg/l	BDL(DL 0.01)	BDL(DL 0.01)	BDL(DL 0.01)	BDL(DL 0.01)	IS 3025 (Pt 52)-2003(Reaff 2009)
24	Copper as Cu	mg/l	BDL(DL 0.01)	BDL(DL 0.01)	BDL(DL 0.01)	BDL(DL 0.01)	IS 3025 (Pt 42)-1992(Reaff 2009)
25	Manganese as Mn	mg/l	BDL(DL 0.01)	BDL(DL 0.01)	BDL(DL 0.01)	BDL(DL 0.01)	IS 3025 (Pt-59) 2006
26	Cadmium as Cd	mg/l	BDL(DL 0.01)	BDL(DL 0.01)	BDL(DL 0.01)	BDL(DL 0.01)	IS 3025 Part(41)1991
27	Lead as Pb	mg/l	BDL(DL 0.01)	BDL(DL 0.01)	BDL(DL 0.01)	BDL(DL 0.01)	IS 3025 (Pt-47)1994(Reaff 2009)
28	Selenium as Se	mg/l	BDL(DL 0.005)	BDL(DL 0.005)	BDL(DL 0.005)	BDL(DL 0.005)	IS 3025 Part (56)2003
29	Arsenic as As	mg/l	BDL(DL 0.005)	BDL(DL 0.005)	BDL(DL 0.005)	BDL(DL 0.005)	IS 3025 (Part-37) 1988(Reaff 2009)
30	Mercury as Hg	mg/l	BDL(DL 0.001)	BDL(DL 0.001)	BDL(DL 0.001)	BDL(DL 0.001)	IS 3025 (Part48) 1994 RA 1999
31	Mineral Oil	mg/l	Absent	Absent	Absent	Absent	IS 3025 (Part39)
32	Sulphide as S2	mg/l	BDL(DL 0.02)	BDL(DL 0.02)	BDL(DL 0.02)	BDL(DL 0.02)	IS3025 (Part29)-1986(Reaff 2009)
33	PAH	mg/l	BDL(DL 0.001)	BDL(DL 0.001)	BDL(DL 0.001)	BDL(DL 0.001)	APHA 6440
34	Nickel	mg/l	BDL(DL 0.01)	BDL(DL 0.01)	BDL(DL 0.01)	BDL(DL 0.01)	IS 3025:(Part-54):2003(Reaff 2009)
35	Ammonia as NH3	mg/l	BDL(DL 0.1)	BDL(DL 0.1)	BDL(DL 0.1)	BDL(DL 0.1)	IS 3025 Part(34) 1982
36	Barium as Ba	mg/l	BDL(DL 0.1)	BDL(DL 0.1)	BDL(DL 0.1)	BDL(DL 0.1)	3111 APHA 22nd Edition 2012
37	Silver as Ag	mg/l	BDL(DL 0.01)	BDL(DL 0.01)	BDL(DL 0.01)	BDL(DL 0.01)	Annexure J of IS 13428:2005
38	Chloramines	mg/l	BDL(DL 0.01)	BDL(DL 0.01)	BDL(DL 0.01)	BDL(DL 0.01)	IS 3025(Part 26)1986
39	Molybdenum	mg/l	BDL(DL 0.01)	BDL(DL 0.01)	BDL(DL 0.01)	BDL(DL 0.01)	HHTS/W&WW/SOP/064
40	Polychlorinated Biphenyls	mg/l	BDL(DL 0.001)	BDL(DL 0.001)	BDL(DL 0.001)	BDL(DL 0.001)	ASTM 5175

Note:-BDL -Below Detection Limit, D.L-Detection Limit, NTU-Nephelometric Turbidity Unit, mg/l -Milligrams per liter. GW-Ground water, SW -Surface water.

Hubert Enviro Care Systems (P) Ltd.

Annexure – 2

TEST REPORT- AAQ1

Sample Description : **Ambient Air**
Sampling Mark : **UP Wind (Near Main Gate)**
Sample Drawn By : **Hubert Enviro Care Systems Private Limited**
Sampling/Received Date : **23/12/2015 – 24/12/2015**
Analysis Commenced On : **24/12/2015**

S.No	Parameters	Units	Results Obtained			Test Method	NAAQ Standards : 2009	
			06.00 - 14.00	14.00 – 22.00	22.00 – 06.00			
1	Sulphur Dioxide	µg/m³	11.36	10.86	11.80	IS : 5182 (P-2):2001(Reaff:2006)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	22.43	23.60	22.06	IS: 5182 (P-6):2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	50.13	52.50	55.33	IS: 5182 (P-23):2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	21.75	23.64	22.79	HECS/AIR/Ambient/SOP011	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BDL(DL 0.005)	BDL(DL 0.005)	BDL(DL 0.005)	IS : 5182 (P-10) 1999(Reaff:2003)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BDL(DL 0.05)	BDL(DL 0.05)	BDL(DL 0.05)	IS: 5182 (P-22): 2004(Reaff:2009)	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	BDL(DL 10)	BDL(DL 10)	BDL(DL 10)	HECS/AIR/Ambient/SOP013	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	BDL(DL 5)	BDL(DL 5)	BDL(DL 5)	HECS/AIR/Ambient/SOP012	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BDL(DL 1)	BDL(DL 1)	BDL(DL 1)	IS: 5182 (P-11):2006(RA:2009)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BDL(DL 1)	BDL(DL 1)	BDL(DL 1)	IS: 5182 (P-12): 2004(RA:2009)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BDL(DL 1)	BDL(DL 1)	BDL(DL 1)	HECS/AIR/Ambient/SOP014	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BDL(DL 5)	BDL(DL 5)	BDL(DL 5)	HECS/AIR/Ambient/SOP007	20 (Annual)	20 (Annual)
13	Hydrocarbons	ppb	945	952	948	IS 5182 Part 21 : 2001	NA	NA
14	Non Methane Hydrocarbons	ppb	521	530	526	IS 5182 Part 21 : 2001	NA	NA
15	Hydrogen Sulphide	µg/m³	BDL(DL 6)	BDL(DL 6)	BDL(DL 6)	IS 5182 Part 7 : 2003	NA	NA
16	Mercury	ng/m³	BDL(DL 1)	BDL(DL 1)	BDL(DL 1)	NIOSH 6009	NA	NA
17	TVOC	ppm	1.2	1.4	1.3	PID Method	NA	NA
18	SPM	µg/m³	84.3	86.9	85.1	IS 5182 Part 4 1999	NA	NA

Note:-BDL -Below Detection Limit, D.L.-Detection Limit, µg/m³-Micrograms per cubic meter, mg/m³-Milligrams per cubic meter, ng/m³-Nanograms per cubic meter.

End of Report

Hubert Enviro Care Systems (P) Ltd.

Annexure - 2

TEST REPORT – AAQ2

Sample Description : **Ambient Air**
Sampling Mark : **Down Wind (Near DG Area)**
Sample Drawn By : **Hubert Enviro Care Systems Private Limited**
Sampling/Received Date : **23/12/2015 – 24/12/2015**
Analysis Commenced On : **24/12/2015**

S.No.	Parameters	Units	Results Obtained			Test Method	NAAQ Standards : 2009	
			06.00 - 14.00	14.00 – 22.00	22.00 – 06.00			
1	Sulphur Dioxide	µg/m³	11.10	9.63	12.06	IS : 5182 (P-2):2001(Reaff:2006)	80 (24 hours)	50 (Annual
2	Nitrogen Dioxide	µg/m³	22.84	23.67	21.33	IS: 5182 (P-6):2006	80 (24 hours)	40 (Annual
3	Particulate Matter Size Less than 10 µm	µg/m³	50.75	55.06	52.10	IS: 5182 (P-23):2006	100 (24 hours)	60 (Annual
4	Particulate Matter Size Less than 2.5 µm	µg/m³	22.40	26.90	24.80	HECS/AIR/Ambient/SOP011	60 (24 hours)	40 (Annual
5	Carbon Monoxide	mg/m³	BDL(DL 0.005)	BDL(DL 0.005)	BDL(DL 0.005)	IS : 5182 (P-10) 1999(Reaff:2003)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BDL(DL 0.05)	BDL(DL 0.05)	BDL(DL 0.05)	IS: 5182 (P-22) 2004(Reaff:2009)	1 (24 hours)	0.5 (Annual
7	Ozone	µg/m³	BDL(DL 10)	BDL(DL 10)	BDL(DL 10)	HECS/AIR/Ambient/SOP013	180 (1 hours)	100 (8 hour
8	Ammonia	µg/m³	BDL(DL 5)	BDL(DL 5)	BDL(DL 5)	HECS/AIR/Ambient/SOP012	400 (24 hours)	100 (Annual
9	Benzene	µg/m³	BDL(DL 1)	BDL(DL 1)	BDL(DL 1)	IS: 5182 (P-11):2006(RA:2009)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BDL(DL 1)	BDL(DL 1)	BDL(DL 1)	IS: 5182 (P-12) 2004(RA:2009)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BDL(DL 1)	BDL(DL 1)	BDL(DL 1)	HECS/AIR/Ambient/SOP014	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BDL(DL 5)	BDL(DL 5)	BDL(DL 5)	HECS/AIR/Ambient/SOP007	20 (Annual)	20 (Annual
13	Hydrocarbons	ppb	921	940	935	IS 5182 Part 21 : 2001	NA	NA
14	Non Methane Hydrocarbons	ppb	540	526	532	IS 5182 Part 21 : 2001	NA	NA
15	Hydrogen Sulphide	µg/m³	BDL(DL 6)	BDL(DL 6)	BDL(DL 6)	IS 5182 Part 7 : 2003	NA	NA
16	Mercury	ng/m³	BDL(DL 1)	BDL(DL 1)	BDL(DL 1)	NIOSH 6009	NA	NA
17	TVOC	ppm	1.8	1.5	1.7	PID Method	NA	NA
18	SPM	µg/m³	96.3	94.9	98.4	IS 5182 Part 4 1999	NA	NA

Note:-BDL -Below Detection Limit, D.L-Detection Limit, µg/m³-Micrograms per cubic meter, mg/m³-Milligrams per cubic meter, ng/m³-Nanograms per cubic meter.

End of Report

12

Annexure - 3

6.0 NOISE LEVEL STATUS

6.1 Rationale Behind Sampling

As part of the occupational health and safety measures certain safeguards have been incorporated to mitigate noise pollution in working environments. Thus, background noise levels were measured at Ambient locations.

6.2 Data Presentation

The abstract of Noise level data are given in Table.

Annexure - 3

TEST REPORT

Sample Description : **Noise Level Data**
Sample Location : **Near Main Gate**
Sample Drawn By : **Hubert Enviro Care Systems Private Limited**
Sampling/Received Date :**23/12/15 – 24/12/15**
Instrument Used : **Extech (Digital Sound Level Meter)**

S.No	RUN TIME		NOISE LEVEL dB(A)
	TIME ON	TIME OFF	
1	06.00	07.00	63.2
2	07.00	08.00	61.8
3	08.00	09.00	62.5
4	09.00	10.00	63.9
5	10.00	11.00	64.2
6	11.00	12.00	65.1
7	12.00	13.00	63.8
8	13.00	14.00	66.7
9	14.00	15.00	64.9
10	15.00	16.00	65.2
11	16.00	17.00	61.8
12	17.00	18.00	62.7
13	18.00	19.00	63.9
14	19.00	20.00	64.1
15	20.00	21.00	62.5
16	21.00	22.00	62.9
NOISE LEVEL (AVG)			**63.7 dB(A)**

Noise Standards - CPCB:

i. Industrial Area : Day Time-75 dB (A); Night Time-70 dB (A).
ii. Commercial Area : Day Time-65 dB (A); Night Time-55 dB (A).
iii. Residential Area : Day Time-55 dB (A); Night Time-45 dB (A).
iv. Silence Zone : Day Time-50 dB (A); Night Time-40 dB (A).
v. Working Area : 90 dB (A).

Note:
1. Day Time shall mean from 6.00 am to 10.00 pm.
2. Night Time shall mean from 10.00 pm to 6.00 am.

Annexure - 3

TEST REPORT

Sample Description : **Noise Level Data**
Sample Location : **Near Main Gate**
Sample Drawn By : **Hubert Enviro Care Systems Private Limited**
Sampling/Received Date : **23/12/15 – 24/12/15**
Instrument Used : **Extech (Digital Sound Level Meter)**

S.No	RUN TIME		NOISE LEVEL dB(A)
	TIME ON	TIME OFF	
17	22.00	23.00	59.7
18	23.00	24.00	58.3
19	24.00	01.00	61.7
20	01.00	02.00	60.2
21	02.00	03.00	53.8
22	03.00	04.00	52.9
23	04.00	05.00	57.3
24	05.00	06.00	58.2
NOISE LEVEL (AVG)			57.8 dB(A)

Noise Standards - CPCB:

i. Industrial Area : Day Time-75 dB (A); Night Time-70 dB (A).
ii. Commercial Area : Day Time-65 dB (A); Night Time-55 dB (A).
iii. Residential Area : Day Time-55 dB (A); Night Time-45 dB (A).
iv. Silence Zone : Day Time-50 dB (A); Night Time-40 dB (A).
v. Working Area : 90 dB (A).

Note:
1. Day Time shall mean from 6.00 am to 10.00 pm.
2. Night Time shall mean from 10.00 pm to 6.00 am.

Annexure - 3

TEST REPORT

Sample Description : **Noise Level Data**
Sample Location : **Near Security Room**
Sample Drawn By : **Hubert Enviro Care Systems Private Limited**
Sampling/Received Date : **23/12/15 – 24/12/15**
Instrument Used : **Extech (Digital Sound Level Meter)**

S.No	RUN TIME		NOISE LEVEL dB(A)
	TIME ON	TIME OFF	
1	06.00	07.00	59.3
2	07.00	08.00	56.7
3	08.00	09.00	60.2
4	09.00	10.00	58.2
5	10.00	11.00	57.3
6	11.00	12.00	56.7
7	12.00	13.00	55.1
8	13.00	14.00	59.2
9	14.00	15.00	57.8
10	15.00	16.00	53.7
11	16.00	17.00	54.8
12	17.00	18.00	55.9
13	18.00	19.00	56.7
14	19.00	20.00	58.2
15	20.00	21.00	59.1
16	21.00	22.00	56.7
NOISE LEVEL (AVG)			**57.2 dB(A)**

Noise Standards - CPCB:

i. Industrial Area : Day Time-75 dB (A); Night Time-70 dB (A).
ii. Commercial Area : Day Time-65 dB (A); Night Time-55 dB (A).
iii. Residential Area : Day Time-55 dB (A); Night Time-45 dB (A).
iv. Silence Zone : Day Time-50 dB (A); Night Time-40 dB (A).
v. Working Area : 90 dB (A).

Note:
1. Day Time shall mean from 6.00 am to 10.00 pm.
2. Night Time shall mean from 10.00 pm to 6.00 am.

Annexure – 3

TEST REPORT

Sample Description : **Noise Level Data**
Sample Location : **Near Security Room**
Sample Drawn By : **Hubert Enviro Care Systems Private Limited**
Sampling/Received Date : **23/12/15 – 24/12/15**
Instrument Used : **Extech (Digital Sound Level Meter)**

S.No	RUN TIME		NOISE LEVEL dB(A)
	TIME ON	TIME OFF	
17	22.00	23.00	54.1
18	23.00	24.00	53.6
19	24.00	01.00	52.8
20	01.00	02.00	56.1
21	02.00	03.00	55.2
22	03.00	04.00	51.8
23	04.00	05.00	50.9
24	05.00	06.00	52.7
NOISE LEVEL (AVG)			53.4 dB(A)

Noise Standards - CPCB:

i. Industrial Area : Day Time-75 dB (A); Night Time-70 dB (A).
ii. Commercial Area : Day Time-65 dB (A); Night Time-55 dB (A).
iii. Residential Area : Day Time-55 dB (A); Night Time-45 dB (A).
iv. Silence Zone : Day Time-50 dB (A); Night Time-40 dB (A).
v. Working Area : 90 dB (A).

Note:
1. Day Time shall mean from 6.00 am to 10.00 pm.
2. Night Time shall mean from 10.00 pm to 6.00 am.

Annexure - 3

TEST REPORT

Sample Description : **Noise Level Data**
Sample Location : **Near Chemical Storage**
Sample Drawn By : **Hubert Enviro Care Systems Private Limited**
Sampling/Received Date : **23/12/15 – 24/12/15**
Instrument Used : **Extech (Digital Sound Level Meter)**

S.No	RUN TIME		NOISE LEVEL dB(A)
	TIME ON	TIME OFF	
1	06.00	07.00	65.1
2	07.00	08.00	66.8
3	08.00	09.00	68.3
4	09.00	10.00	62.8
5	10.00	11.00	61.7
6	11.00	12.00	63.8
7	12.00	13.00	65.2
8	13.00	14.00	66.9
9	14.00	15.00	64.2
10	15.00	16.00	63.8
11	16.00	17.00	61.9
12	17.00	18.00	62.8
13	18.00	19.00	63.9
14	19.00	20.00	65.2
15	20.00	21.00	61.7
16	21.00	22.00	63.8
NOISE LEVEL (AVG)			64.2 dB(A)

Noise Standards - CPCB:

i. Industrial Area : Day Time-75 dB (A).
ii. Commercial Area : Day Time-65 dB (A).
iii. Residential Area : Day Time-55 dB (A).
iv. Silence Zone : Day Time-50 dB (A).
v. Working Area : 90 dB (A).

Note: 1. Day Time shall mean from 6.00 am to 10.00 pm.

Annexure - 3

TEST REPORT

Sample Description : **Noise Level Data**
Sample Location : **Near Compressor Area**
Sample Drawn By : **Hubert Enviro Care Systems Private Limited**
Sampling/Received Date : **23/12/15 – 24/12/15**
Instrument Used : **Extech (Digital Sound Level Meter)**

S.No	RUN TIME		NOISE LEVEL dB(A)
	TIME ON	TIME OFF	
1	06.00	07.00	85.6
2	07.00	08.00	81.2
3	08.00	09.00	88.1
4	09.00	10.00	80.6
5	10.00	11.00	81.7
6	11.00	12.00	81.3
7	12.00	13.00	82.7
8	13.00	14.00	83.3
9	14.00	15.00	81.9
10	15.00	16.00	82.4
11	16.00	17.00	83.7
12	17.00	18.00	85.1
13	18.00	19.00	86.2
14	19.00	20.00	87.9
15	20.00	21.00	88.2
16	21.00	22.00	84.3
NOISE LEVEL (AVG)			**84.0 dB(A)**

Noise Standards - CPCB:

vi. Industrial Area : Day Time-75 dB (A).
vii. Commercial Area : Day Time-65 dB (A).
viii. Residential Area : Day Time-55 dB (A).
ix. Silence Zone : Day Time-50 dB (A).
x. Working Area : 90 dB (A).

Note: 1. Day Time shall mean from 6.00 am to 10.00 pm.

Annexure-3

TEST REPORT

Sample Description : **Noise Level Data**
Sample Location : **Near Engine Side**
Sample Drawn By : **Hubert Enviro Care Systems Private Limited**
Sampling/Received Date : **23/12/15 – 24/12/15**
Instrument Used : **Extech (Digital Sound Level Meter)**

S.No	RUN TIME		NOISE LEVEL dB(A)
	TIME ON	TIME OFF	
1	06.00	07.00	90.1
2	07.00	08.00	89.3
3	08.00	09.00	86.3
4	09.00	10.00	87.2
5	10.00	11.00	81.6
6	11.00	12.00	82.7
7	12.00	13.00	83.6
8	13.00	14.00	84.9
9	14.00	15.00	85.7
10	15.00	16.00	86.9
11	16.00	17.00	87.2
12	17.00	18.00	83.7
13	18.00	19.00	84.6
14	19.00	20.00	82.9
15	20.00	21.00	87.3
16	21.00	22.00	88.1
NOISE LEVEL (AVG)			**85.8 dB(A)**

Noise Standards - CPCB:

xi.	Industrial Area	: Day Time-75 dB (A).
xii.	Commercial Area	: Day Time-65 dB (A).
xiii.	Residential Area	: Day Time-55 dB (A).
xiv.	Silence Zone	: Day Time-50 dB (A).
xv.	Working Area	: 90 dB (A).

Note: 1. Day Time shall mean from 6.00 am to 10.00 pm.

Annexure - 3

TEST REPORT

Sample Description : **Noise Level Data**
Sample Location : **Near MUD Pump Area**
Sample Drawn By : **Hubert Enviro Care Systems Private Limited**
Sampling/Received Date : **23/12/15 – 24/12/15**
Instrument Used : **Extech (Digital Sound Level Meter)**

S.No	RUN TIME		NOISE LEVEL dB(A)
	TIME ON	TIME OFF	
1	06.00	07.00	79.3
2	07.00	08.00	80.1
3	08.00	09.00	78.2
4	09.00	10.00	77.3
5	10.00	11.00	74.9
6	11.00	12.00	76.8
7	12.00	13.00	72.5
8	13.00	14.00	73.9
9	14.00	15.00	77.3
10	15.00	16.00	78.2
11	16.00	17.00	76.5
12	17.00	18.00	74.6
13	18.00	19.00	73.8
14	19.00	20.00	71.9
15	20.00	21.00	72.5
16	21.00	22.00	73.8
NOISE LEVEL (AVG)			75.7 dB(A)

Noise Standards - CPCB:

xvi.	Industrial Area	: Day Time-75 dB (A).
xvii.	Commercial Area	: Day Time-65 dB (A).
xviii.	Residential Area	: Day Time-55 dB (A).
xix.	Silence Zone	: Day Time-50 dB (A).
xx.	Working Area	: 90 dB (A).

Note: 1. Day Time shall mean from 6.00 am to 10.00 pm.

Annexure-3

TEST REPORT

Sample Description : **Noise Level Data**
Sample Location : **Near GEO/Chemical Bunk**
Sample Drawn By : **Hubert Enviro Care Systems Private Limited**
Sampling/Received Date : **23/12/15 – 24/12/15**
Instrument Used : **Extech (Digital Sound Level Meter)**

S.No	RUN TIME		NOISE LEVEL dB(A)
	TIME ON	TIME OFF	
1	06.00	07.00	69.1
2	07.00	08.00	68.5
3	08.00	09.00	67.9
4	09.00	10.00	69.2
5	10.00	11.00	68.2
6	11.00	12.00	67.4
7	12.00	13.00	66.9
8	13.00	14.00	68.3
9	14.00	15.00	69.2
10	15.00	16.00	70.4
11	16.00	17.00	68.5
12	17.00	18.00	67.3
13	18.00	19.00	68.9
14	19.00	20.00	67.5
15	20.00	21.00	68.3
16	21.00	22.00	69.1
NOISE LEVEL (AVG)			68.4 dB(A)

Noise Standards - CPCB:

i. Industrial Area : Day Time-75 dB (A); Night Time-70 dB (A).
ii. Commercial Area : Day Time-65 dB (A); Night Time-55 dB (A).
iii. Residential Area : Day Time-55 dB (A); Night Time 45 dB (A).
iv. Silence Zone : Day Time-50 dB (A); Night Time-40 dB (A).
v. Working Area : 90 dB (A).

Note:
1. Day Time shall mean from 6.00 am to 10.00 pm.
2. Night Time shall mean from 10.00 pm to 6.00 am.

Annexure-3

TEST REPORT

Sample Description : **Noise Level Data**
Sample Location : **Near GEO/Chemical Bunk**
Sample Drawn By : **Hubert Enviro Care Systems Private Limited**
Sampling/Received Date : **23/12/15 – 24/12/15**
Instrument Used : **Extech (Digital Sound Level Meter)**

S.No	RUN TIME		NOISE LEVEL dB(A)
	TIME ON	TIME OFF	
17	22.00	23.00	67.3
18	23.00	24.00	66.9
19	24.00	01.00	65.7
20	01.00	02.00	64.9
21	02.00	03.00	63.8
22	03.00	04.00	65.1
23	04.00	05.00	66.9
24	05.00	06.00	63.7
NOISE LEVEL (AVG)			65.5 dB(A)

Noise Standards - CPCB:

i. Industrial Area : Day Time-75 dB (A); Night Time-70 dB (A).
ii. Commercial Area : Day Time-65 dB (A); Night Time-55 dB (A).
iii. Residential Area : Day Time-55 dB (A); Night Time-45 dB (A).
iv. Silence Zone : Day Time-50 dB (A); Night Time-40 dB (A).
v. Working Area : 90 dB (A).

Note:
1. Day Time shall mean from 6.00 am to 10.00 pm.
2. Night Time shall mean from 10.00 pm to 6.00 am.

Annexure-3

TEST REPORT

Sample Description : **Noise Level Data**
Sample Location : **Near T/P Bunk**
Sample Drawn By : **Hubert Enviro Care Systems Private Limited**
Sampling/Received Date : **23/12/15 – 24/12/15**
Instrument Used : **Extech (Digital Sound Level Meter)**

S.No	RUN TIME		NOISE LEVEL dB(A)
	TIME ON	TIME OFF	
1	06.00	07.00	69.3
2	07.00	08.00	70.4
3	08.00	09.00	70.5
4	09.00	10.00	69.8
5	10.00	11.00	71.6
6	11.00	12.00	72.4
7	12.00	13.00	71.9
8	13.00	14.00	70.5
9	14.00	15.00	72.4
10	15.00	16.00	71.3
11	16.00	17.00	70.2
12	17.00	18.00	69.3
13	18.00	19.00	71.1
14	19.00	20.00	72.6
15	20.00	21.00	70.4
16	21.00	22.00	71.2
NOISE LEVEL (AVG)			**70.9 dB(A)**

Noise Standards - CPCB:

i.	Industrial Area	: Day Time-75 dB (A); Night Time-70 dB (A).
ii.	Commercial Area	: Day Time-65 dB (A); Night Time-55 dB (A)
iii.	Residential Area	: Day Time-55 dB (A); Night Time-45 dB (A).
iv.	Silence Zone	: Day Time-50 dB (A); Night Time-40 dB (A).
v.	Working Area	: 90 dB (A).

Note:
1. Day Time shall mean from 6.00 am to 10.00 pm.
2. Night Time shall mean from 10.00 pm to 6.00 am.

Annexure-3

TEST REPORT

Sample Description : **Noise Level Data**
Sample Location : **Near T/P Bunk**
Sample Drawn By : **Hubert Enviro Care Systems Private Limited**
Sampling/Received Date : **23/12/15 – 24/12/15**
Instrument Used : **Extech (Digital Sound Level Meter)**

S.No	RUN TIME		NOISE LEVEL dB(A)
	TIME ON	TIME OFF	
17	22.00	23.00	68.3
18	23.00	24.00	72.4
19	24.00	01.00	71.6
20	01.00	02.00	65.4
21	02.00	03.00	69.6
22	03.00	04.00	63.5
23	04.00	05.00	70.1
24	05.00	06.00	68.2
NOISE LEVEL (AVG)			68.6 dB(A)

Noise Standards - CPCB:

i. Industrial Area : Day Time-75 dB (A); Night Time 70 dB (A).
ii. Commercial Area : Day Time-65 dB (A); Night Time-55 dB (A).
iii. Residential Area : Day Time-55 dB (A); Night Time-45 dB (A).
iv. Silence Zone : Day Time-50 dB (A); Night Time-40 dB (A).
v. Working Area : 90 dB (A).

Note:
1. Day Time shall mean from 6.00 am to 10.00 pm.
2. Night Time shall mean from 10.00 pm to 6.00 am.

Annexure – 3

TEST REPORT

Sample Description : DG Stack Emission
Sampling Mark : DG 1430 KVA – 1
Sample Drawn By : Hubert Enviro Care Systems Private Limited
Sampling/Received Date : 23/12/2015 – 24/12/2015
Analysis Commenced On : 24/12/2015

S.No.	Parameters	Units	Results	Test Method	Standards
1	Stack Diameter	meter	0.2	-	-
2	Stack Temperature	°C	235	IS 11255(P-3)2008	-
3	Velocity of flue gas	m/sec	11.3	IS 11255 (P-3)2008	-
4	Flow rate of stack gases	Nm^3/hr	680	IS 11255 (P-3)2008	-
5	Suspended Particulate Matter	mg/Nm^3	51.33	IS 11255 (P-1) 1985(Reaff:2003)	150
6	Sulphur Dioxide	mg/Nm^3	10.81	IS 11255 (P-2) :1985(Reaff:2003)	-
7	Nitrogen Dioxide	ppm	247.85	IS 11255 (P-7) 2005	1100
9	Carbon monoxide	mg/Nm^3	BDL(DL 1)	IS 13270 -1992(Reaff:2009)	150
10	Carbon dioxide	%V/V	12.4	IS 13270:1992(Reaff:2009)	-
11	Volatile Organic Compound	ppm	2.9	PID Gas Detector	-
12	Hydrocarbon	ppm	7.1	NDIR technique	-
13	Moisture	%	1.08	IS 11255 (P-3) 2003	-
14	Mercury	mg/Nm^3	BDL(DL 0.01)	USEPA method 29	-

Note:-BDL -Below Detection Limit, D.L-Detection Limit, m/sec -Meter per second, Nm^3/hr-Normal cubic meter per hour, mg/Nm^3-Milligrams per Normal cubic meter, °C -Celsius, ppm-Parts per million, %V/V-Percentage Volume per Volume.
Remarks: No direct TNPCB / CPCB Limits for the above parameters; meets as per MoEF standards, where applicable.

End of Report

Annexure - 3

TEST REPORT

Sample Description : **DG Stack Emission**
Sampling Mark : **DG 1430 KVA – 2**
Sample Drawn By : **Hubert Enviro Care Systems Private Limited**
Sampling/Received Date : **23/12/2015 – 24/12/2015**
Analysis Commenced On : **24/12/2015**

S.No.	Parameters	Units	Results	Test Method	Standards
1	Stack Diameter	meter	0.2	-	-
2	Stack Temperature	°C	242	IS 11255(P-3)2008	-
3	Velocity of flue gas	m/sec	11.6	IS 11255 (P-3)2008	-
4	Flow rate of stack gases	Nm^3/hr	689	IS 11255 (P-3)2008	-
5	Suspended Particulate Matter	mg/Nm^3	54.63	IS 11255 (P-1) 1985(Reaff 2003)	150
6	Sulphur Dioxide	mg/Nm^3	20.08	IS 11255 (P-2) 1985(Reaff 2003)	-
7	Nitrogen Dioxide	ppm	281.30	IS 11255 (P-7) 2005	1100
9	Carbon monoxide	mg/Nm^3	BDL(DL 1)	IS 13270 -1992(Reaff 2009)	150
10	Carbon dioxide	%V/V	13.6	IS 13270:1992(Reaff 2009)	-
11	Volatile Organic Compound	ppm	2.8	PID Gas Detector	-
12	Hydrocarbon	ppm	6.5	NDIR technque	-
13	Moisture	%	1.12	IS 11255 (P-3) 2003	-
14	Mercury	mg/Nm^3	BDL(DL 0.01)	USEPA method 29	-

Note:-BDL -Below Detection Limit, D.L-Detection Limit, m/sec -Meter per second, Nm^3/hr-Normal cubic meter per hour, mg/Nm^3-Milligrams per Normal cubic meter, °C -Celsius, ppm-Parts per million, %V/V-Percentage Volume per Volume.
Remarks: No direct TNPCB / CPCB Limits for the above parameters; meets as per MoEF standards, where applicable.

End of Report

Annexure - 3

TEST REPORT

Sample Description : **DG Stack Emission**
Sampling Mark : **DG 1430 KVA – 3**
Sample Drawn By : **Hubert Enviro Care Systems Private Limited**
Sampling/Received Date : **23/12/2015 – 24/12/2015**
Analysis Commenced On : **24/12/2015**

S.No.	Parameters	Units	Results	Test Method	Standards
1	Stack Diameter	meter	0.2	-	-
2	Stack Temperature	°C	238	IS 11255(P-3)2008	-
3	Velocity of flue gas	m/sec	10.2	IS 11255 (P-3)2008	-
4	Flow rate of stack gases	Nm³/hr	610	IS 11255 (P-3)2008	-
5	Suspended Particulate Matter	mg/Nm³	56.79	IS 11255 (P-1) 1985(Reaff 2003)	150
6	Sulphur Dioxide	mg/Nm³	13.68	IS 11255 (P-2) 1985(Reaff 2003)	-
7	Nitrogen Dioxide	ppm	318.24	IS 11255 (P-7) 2005	1100
9	Carbon monoxide	mg/Nm³	BDL(DL 1)	IS 13270-1992(Reaff 2009)	150
10	Carbon dioxide	%V/V	12.8	IS 13270 1992(Reaff 2009)	-
11	Volatile Organic Compound	ppm	4.1	PID Gas Detector	-
12	Hydrocarbon	ppm	7.6	NDIR technique	-
13	Moisture	%	1.35	IS 11255 (P-3) 2003	-
14	Mercury	mg/Nm³	BDL(DL 0.01)	USEPA method 29	-

Note:-BDL -Below Detection Limit, D.L-Detection Limit, m/sec -Meter per second, Nm³/hr-Normal cubic meter per hour, mg/Nm³-Milligrams per Normal cubic meter, °C -Celsius, ppm-Parts per million, %V/V-Percentage Volume per Volume.
Remarks: No direct TNPCB / CPCB Limits for the above parameters; meets as per MoEF standards, where applicable.

End of Report

Annexure - 3

TEST REPORT

Sample Description : **DG Stack Emission**
Sampling Mark : **DG 1430 KVA – 4**
Sample Drawn By : **Hubert Enviro Care Systems Private Limited**
Sampling/Received Date : **23/12/2015 – 24/12/2015**
Analysis Commenced On : **24/12/2015**

S.No.	Parameters	Units	Results	Test Method	Standards
1	Stack Diameter	meter	0.2	-	-
2	Stack Temperature	°C	240	IS 11255(P-3)2008	-
3	Velocity of flue gas	m/sec	11.2	IS 11255 (P-3)2008	-
4	Flow rate of stack gases	Nm^3/hr	668	IS 11255 (P-3)2008	-
5	Suspended Particulate Matter	mg/Nm^3	53.09	IS 11255 (P-1) 1985(Reaff 2003)	150
6	Sulphur Dioxide	mg/Nm^3	12.79	IS 11255 (P-2) :1985(Reaff 2003)	-
7	Nitrogen Dioxide	ppm	297.51	IS 11255 (P-7) 2005	1100
9	Carbon monoxide	mg/Nm^3	BDL(DL 1)	IS 13270 -1992(Reaff 2009)	150
10	Carbon dioxide	%V/V	13.2	IS 13270 1992(Reaff 2009)	-
11	Volatile Organic Compound	ppm	3.6	PID Gas Detector	-
12	Hydrocarbon	ppm	6.9	NDIR technique	-
13	Moisture	%	1.10	IS 11255 (P-3) 2003	-
14	Mercury	mg/Nm^3	BDL(DL 0.01)	USEPA method 29	-

Note:-BDL -Below Detection Limit, D.L-Detection Limit, m/sec -Meter per second, Nm^3/hr-Normal cubic meter per hour, mg/Nm^3-Milligrams per Normal cubic meter, °C -Celsius, ppm-Parts per million, %V/V-Percentage Volume per Volume.
Remarks: No direct TNPCB / CPCB Limits for the above parameters; meets as per MoEF standards, where applicable.
End of Report

Annexure -4

IWMA

Industrial Waste Management Association

Regd. No. 256 / 2002

No-13/4, Indira Colony, First Street, First Avenue, Ashok Nagar, Chennai - 600 083

This is to certify that M/S. Oil & Natural Gas Corporation Ltd located at 11th Floor, West Wing, ONGC, CMDA Tower - I, I- Gandhi Irwin road, Egmore Chennai is a member of the Industrial Waste Management Association. The membership no. is 1162

Date 28.01.13

Chairman

Annexure - 4

Oil and Natural Gas Corporation Limited
Office of Head Drilling Services
Cauvery Asset, Neravy Complex, Karaikal
Tel: 04368 238316, Fax: 04368 238126

File No: ONGC/KKL/CA/DS/HSE/TNPCB/2015 Date: 15.09.2015

From: Head Drilling Services, ONGC, Cauvery Asset, Karaikal

To: The Tamilnadu Waste Management Limited-A Ramky Group Company
Plot No.5-15, 28-33 SIPCOT Industrial Complex
Gummidipoondi-601 201 (Tiruvallur District)
Kind Attn: Shri. Thirugnanasampantham, Director

Sub: Agreement entered between ONGC, Cauvery Asset, Karaikal and Tamilnadu Waste Management Ltd on 25.02.2013, regarding disposal of Hazardous Waste

Sir,

This is with the reference to the agreement made by ONGC with Tamilnadu waste management limited on 25.02.2013, regarding disposal of hazardous waste. ONGC would like to add drill cuttings also for disposal. Please confirm that the drill cuttings can also be disposed by you as per the same terms and conditions of the above referred agreement.

Regards,

15/9/2015

(S.CHAKRABORTY)
Group General Manager(Drilling)
Head Drilling Services

Annexure-4

RAMKY
TAMILNADU WASTE MANAGEMENT LTD.
Plot No. 5-15, 28-33, Sipcot Industrial Complex,
Gummidipoondi - 601 201, Thiruvallur Dist.
Tel : 044-2792 3310, 2792 2068
E-mail : mbd@tnwml@ramky.com

Towards sustainable growth

Date: 24.09.15

To
The General Manager
Head Drilling Services
Oil and Natural Gas Corporation Limited
Cauvery Asset, Neravy Complex, Karaikal

Dear Sir,

Sub: *Amendment in agreement*
Ref: *1. Your letter No.NGC/KKL/CA/DS/HSE/TNPCN/2015 Dated 15.09.15*

With reference to the above agreement and in line with the discussion we had with you, We hereby confirm to include drill cuttings waste to transportation, treatment and disposal of the hazardous waste from your site.

As per your request wide letter dated 15/09/15 the above communication is being forwarded for due submission to TNPCB for your authorisation amendment.

We sincerely hope the above information shall suffice your requirements and should you require any additional information / clarification in this regard, we are at your service.

We look forward for your release of the work order and despatch schedule at the earliest to proceed further.

Thanking you,

Yours faithfully,

For **Tamil Nadu Waste Management Ltd**

Authorised Signatory

Annexure - 4

INDUSTRIAL WASTE MANAGEMENT ASSOCIATION

13/4, First Str[illegible] Indira Colony, (Ground Floor), Off First Avenue, Ashok Nagar, Chennai – 600 083.
Regd. No. 256 / 2002

Caring for the Environ[illegible] IWMA

RECIEPT

No. 309
Date : 15.6.16

Membership No. : 1162

Received with thanks from Oiland Natural Gas Corporation Ltd.

an amount of Rs. 3750/- Dt: 14.6.16. DD.NO: 047488, SBI

towards Infrastructure fund on Subscription fee 2016-17

For IWMA

For Secretary / Treasurer

DONATION IS EXEMPTED [illegible] VIDE LETTER DIT(E) NO [illegible] 2002 - 2003 DATED [illegible] DIRECTOR OF INCOME TAX (EXEMPTION) CHENNAI

INDUSTRIAL WASTE MANAGEMENT ASSOCIATION

13/4, First Str[illegible] Indira Colony, (Ground Floor), Off First Avenue, Ashok Nagar, Chennai – 600 083.
Regd. No. 256 / 2002

Caring for the Environ[illegible] IWMA

RECIEPT

No. 309
Date : 15.6.16

Membership No. : 1162

Received with thanks from Oiland Natural Gas Corporation Ltd.

an amount of Rs. 11250/- Dt: 14.6.16 DD.NO: 047488, SBI

towards Admin fund on Subscription fee 2016-17

For IWMA

For Secretary / Treasurer

DONATION IS EXEMPTED [illegible] VIDE LETTER DIT(E) [illegible] 2002 - 2003 DATED [illegible] DIRECTOR OF INCOME TAX (EXEMPTION) CHENNAI

Annexure - 4A

[PUBLISHED IN THE GAZETTE OF INDIA, EXTRAORDINARY, PART II, SECTION 3, SUB-SECTION (i)]

GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

NOTIFICATION

New Delhi, the 04th April, 2016

G.S.R No. 395 (E). - Whereas the draft rules, namely the Hazardous And Other Wastes (Management and Transboundary Movement) Rules, 2015, were published by the Government of India in the Ministry of Environment, Forest and Climate Change *vide* number G.S.R. 582(E), dated the 24th July, 2015 in the Gazette of India, Extraordinary Part II, section 3, sub-section (ii) inviting objections and suggestions from all persons likely to be affected thereby, before the expiry of the period of sixty days from the date on which copies of the Gazette containing the said notification were made available to the public;

AND WHEREAS the copies of the said Gazette containing the said notification were made available to the public on the 24th day of July, 2015;

AND WHEREAS the objections and suggestions received within the specified period from the public in respect of the said draft rules have been duly considered by the Central Government;

NOW, THEREFORE, in exercise of the powers conferred by sections 6, 8 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), and in supersession of the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008, except as respects things done or omitted to be done before such supersession, the Central Government hereby makes the following rules, namely:-

CHAPTER I

PRELIMINARY

1. Short title and commencement. - (1) These rules may be called the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. Application. - These rules shall apply to the management of hazardous and other wastes as specified in the Schedules to these rules but shall not apply to -

(a) waste-water and exhaust gases as covered under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974) and the Air (Prevention and Control of Pollution) Act, 1981 (14 of 1981) and the rules made thereunder and as amended from time to time;

(b) wastes arising out of the operation from ships beyond five kilometres of the relevant baseline as covered under the provisions of the Merchant Shipping Act, 1958 (44 of 1958) and the rules made thereunder and as amended from time to time;

disposal facilities and shall submit the information to Central Pollution Control Board every two years.

(4) The Central Pollution Control Board shall prepare the consolidated review report on management of hazardous and other wastes and forward it to the Ministry of Environment, Forest and Climate Change, along with its recommendations before the 30th day of December once in every year.

21. Responsibility of authorities. - The authority specified in column (2) of Schedule VII shall perform the duties as specified in column (3) of the said Schedule subject to the provisions of these rules.

22. Accident reporting. - Where an accident occurs at the facility of the occupier handling hazardous or other wastes and operator of the disposal facility or during transportation, the occupier or the operator or the transporter shall immediately intimate the State Pollution Control Board through telephone, e-mail about the accident and subsequently send a report in **Form 11.**

23. Liability of occupier, importer or exporter and operator of a disposal facility.-

(1) The occupier, importer or exporter and operator of the disposal facility shall be liable for all damages caused to the environment or third party due to improper handling and management of the hazardous and other waste.

(2) The occupier and the operator of the disposal facility shall be liable to pay financial penalties as levied for any violation of the provisions under these rules by the State Pollution Control Board with the prior approval of the Central Pollution Control Board.

24. Appeal.- (1) Any person aggrieved by an order of suspension or cancellation or refusal of authorisation or its renewal passed by the State Pollution Control Board may, within a period of thirty days from the date on which the order is communicated to him, prefer an appeal in **Form 12** to the Appellate Authority, namely, the Environment Secretary of the State.

(2) The Appellate Authority may entertain the appeal after expiry of the said period of thirty days, if it is satisfied that the appellant was prevented by sufficient cause from filing the appeal in time.

(3) Every appeal filed under this rule shall be disposed of within a period of sixty days from the date of its filing.

SCHEDULE I

[See rule 3 (1) (17) (i)]

List of processes generating hazardous wastes

S.No.	Processes	Hazardous Waste*
(1)	(2)	(3)
1.	Petrochemical processes and pyrolytic operations	1.1 Furnace or reactor residue and debris 1.2 Tarry residues and still bottoms from distillation 1.3 Oily sludge emulsion 1.4 Organic residues 1.5 Residues from alkali wash of fuels

(1)	(2)	(3)
		1.6 Spent catalyst and molecular sieves 1.7 Oil from wastewater treatment
2.	Crude oil and natural gas production	2.1 Drill cuttings excluding those from water based mud 2.2 Sludge containing oil 2.3 Drilling mud containing oil
3.	Cleaning, emptying and maintenance of petroleum oil storage tanks including ships	3.1 cargo residue, washing water and sludge containing oil 3.2 cargo residue and sludge containing chemicals 3.3 Sludge and filters contaminated with oil 3.4 Ballast water containing oil from ships
4.	Petroleum refining or re-processing of used oil or recycling of waste oil	4.1 Oil sludge or emulsion 4.2 Spent catalyst 4.3 Slop oil 4.4 Organic residue from processes 4.5 Spent clay containing oil
5.	Industrial operations using mineral or synthetic oil as lubricant in hydraulic systems or other applications	5.1 Used or spent oil 5.2 Wastes or residues containing oil 5.3 Waste cutting oils
6.	Secondary production and / or industrial use of zinc	6.1 Sludge and filter press cake arising out of production of Zinc Sulphate and other Zinc Compounds. 6.2 Zinc fines or dust or ash or skimmings in dispersible form 6.3 Other residues from processing of zinc ash or skimmings 6.4 Flue gas dust and other particulates
7.	Primary production of zinc or lead or copper and other non-ferrous metals except aluminium	7.1 Flue gas dust from roasting 7.2 Process residues 7.3 Arsenic-bearing sludge 7.4 Non-ferrous metal bearing sludge and residue. 7.5 Sludge from scrubbers
8.	Secondary production of copper	8.1 Spent electrolytic solutions 8.2 Sludge and filter cakes 8.3 Flue gas dust and other particulates
9.	Secondary production of lead	9.1 Lead bearing residues 9.2 Lead ash or particulate from flue gas 9.3 Acid from used batteries
10.	Production and/or industrial use of cadmium and arsenic and their compounds	10.1 Residues containing cadmium and arsenic
11.	Production of primary and secondary aluminum	11.1 Sludges from off-gas treatment 11.2 Cathode residues including pot lining wastes 11.3 Tar containing wastes 11.4 Flue gas dust and other particulates 11.5 Drosses and waste from treatment of salt sludge

FORM 12
[See rule 24 (1)]

APPLICATION FOR FILING APPEAL
AGAINST THE ORDER PASSED BY STATE POLLUTION CONTROL BOARD

1.	Name and address of the person making the appeal	:	
2.	Number, date of order and address of the authority which passed the order, against which appeal is being made	:	(certified copy of the order be attached)
3.	Ground on which the appeal is being made	:	
4.	Relief sought for	:	
5.	List of enclosures other than the order referred in point 2 against which the appeal is being filed.	:	

Signature.....

Name and address.....

Date:

----------x----------x----------

[23-16/2009- HSMD]

(Bishwanath Sinha)
Joint Secretary to Government of India

Annexure - 5

Annexure - 5

OIL & NATURAL GAS CORPORATION LTD.,
CAUVERY PROJECT, KARAIKAL.

~~DELIVERY NOTE / CONVEY NOTE~~
GATE PASS

Date : 12/04/16
~~Trailer~~ / Lorry No : TN 20 BK 5069
Name of the Carriers : M/S KKRT

Consignor's **Name & Address** : EV-2000-6 Rig, PMDB D/S.

Consignee's **Name & Address** : KKL #11

From PMDB D/S To KKL #11

S. No.	Description of Material	Unit	Quantity	Remarks
1.	Burned oil barrel - 19 Nos. { - 13 Nos (sealed barrel) - 6 Nos (Partially filled barrel.			Loaded by KKRT full truck.
2.	Empty barrel - 8 Nos.			
3.	Hydraulic oil can - 1 No (small)			G.P. No. 141
4.	TCR bit - 6 Nos. { 12¼" bit - 4 Nos. 17½" bit - 2 nos			Dt. 12/04/16
	Four items only			

Name, Signature and Designation of Consignee with Seal

Signature of Representative / Driver

Sun Prosh Joseph
Name, Signature and Designation of Consignor with Seal

38

Annexure-5

Annexure-5

OIL AND NATURAL GAS CORPORATION LIMITED

CAUVERY ASSET,

MATERIALS GATE PASS - OUT

APPENDIX-8
[Refer to Para 26]

Gate Pass No. 33698

Date: 23/6/2016

Issuing Department: HUD SERVICES Ex-2000-6, PNAL

Issued to whom: KKL-11, Store, Karaikal
[Name of the department / company with place should be mentioned where the material is to be handed over]

Purpose: For disposal

Sl. No.	Description of materials	Qty. Mt / Kgs. / Nos. / Volume	Vehicle No.	Name of persons accompanying materials	Time out	Security check by [Name & Designation with Signature]	Remarks
1	2	3	4	5	6	7	8
(1)	Empty chemical barrels (metallic barrels) (28 No.s)	28 (No.s)	TN 20 BK 6904				
(2)	chemical waste bags (7 bundles) (Please two only)	(7 bundles) (each contains 25 bags & gloves (used))		[signature] C. TKANNAN			

Disposed 23/6/16
G. ALEXANDER
(Sr. Chemist) Ex-2000-6
PNAL

Name & Designation Issuing Official

Name & Designation of Superior Officer

The project co-ordinator or next in command and his signature and seal / Name & designation of Person/s authorised to carry Materials.

39

Annexure – 6

5.0 DRILL CUTTING STATUS

5.1 Rationale Behind Sampling

Any adverse impact or pollution Sludge will have serious effect on the environment. Hence, it becomes important to monitor the Sludge periodically in the project area.

In order to assess the quality of water in project area drill cutting samples were collected out of 1 locations for testing chemical parameters as per USEPA Method & APHA Method.

5.2 Data Presentation

The Drill Cutting sample quality data is presented in Tables (Annexure).

Annexure – 6
(also for Annexure 2)

TEST REPORT

Sample Description : **Sludge**
Sampling Mark : **Drill Cutting Sample**
Sample Drawn By : **Hubert Enviro Care Systems Private Limited**
Sampling/Received Date : **29/02/2016 – 01/03/2016**
Analysis Commenced On : **01/03/2016**

S.No.	Parameters	Units	Results	Test Method
1	Zinc	mg/kg	94.7	EPA 3050 B
2	Manganese	mg/kg	250.27	APHA-3030D, APHA-3111B
3	Lead	mg/kg	5.9	EPA 3050B/EPA 7420
4	Cadmium	mg/kg	BDL(DL 1)	EPA 3050 B/EPA 7130
5	Copper as Cu	mg/kg	41.9	EPA 3050B/EPA 7210
6	Iron	mg/kg	29683.91	USEPA Method 3050B&EPA 2008
7	Mercury	mg/Kg	BDL(DL 0.1)	EPA 7196 A
8	Nickel	mg/kg	41.6	EPA 3050B/EPA 7520
9	Oil & Grease	mg/kg	BDL(DL1)	USEPA Method 9071B
10	Alkalinity	mg/kg	1100.0	USEPA Method 310.2
11	Total Chromium	mg/kg	BDL(DL 0.01)	USEPA Method 3050B,AAS Method
12	Arsenic	mg/kg	BDL(DL 0.05)	EPA 7062
13	Acidity	mg/kg	BDL(DL 1)	HECS/SO/SOP/016
14	Vanadium	mg/kg	BDL(DL 0.1)	HECS/SO/SOP/020
15	Cobalt	mg/kg	BDL(DL0.1)	USEPA 3050 B
16	Inorganic Soilds	mg/kg	9000.0	APHA 2540 - C

End of Report

An

Annexure - 7

TAMILNADU POLLUTION CONTROL BOARD

CONSENT ORDER NO. 160511411373 DATED: 05/01/2016.

PROCEEDINGS NO.T12/TNPCB/F.0101ARY/RS/ARY/W/2016 DATED: 05/01/2016

SUB: Tamil Nadu Pollution Control Board –CONSENT TO OPERATE – DIRECT -M/s. M/S ONGC LTD - NPAF DRILLSITE , S.F.No. 283/3, 283/4, 283/2A, 283/2B, 283/2C, 283/5P, 282/3 (Part), 282/6A2, 282/5, 282/6A1, 282/7, 282/4, 282/2, KILIMANGALAM villageSendurai Taluk and Ariyalur District - Consent for the operation of the plant and discharge of sewage and/or trade effluent under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 (Central Act 6 of 1974) – Issued- Reg.

Ref: 1.Unit's application for CTO direct vide No. 1411373 dated 25.09.2015.
2.FIR.No : F.0101ARY/R/S/AE/ARY/2015 dated 01/10/2015.
3.Board's (Consent Clearance Committee) Resolution Item No.187 – 11,Dated: 17.12.2015.

CONSENT TO OPERATE is hereby granted under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 (Central Act, 6 of 1974) (hereinafter referred to as "The Act") and the rules and orders made there under to

Group General Manager (Drilling),
M/s . M/S ONGC LTD - NPAF DRILLSITE
S.F No.283/3, 283/4, 283/2A, 283/2B, 283/2C, 283/5P, 282/3 (Part), 282/6A2, 282/5, 282/6A1, 282/7, 282/4, 282/2,
KILIMANGALAM Village,
Sendurai Taluk,
Ariyalur District.

Authorising the occupier to make discharge of sewage and /or trade effluent.

This is subject to the provisions of the Act, the rules and the orders made there under and the terms and conditions incorporated under the Special and General conditions stipulated in the Consent Order issued earlier and subject to the special conditions annexed.

This CONSENT is valid for the period ending March 31, 2016

Member Secretary,
Tamilnadu Pollution Control Board,
Chennai

To
Group General Manager (Drilling),
M/s.M/S ONGC LTD - NPAF DRILLSITE,
Kilimangalam Village, Sendurai Taluk, Ariyalur District,
Pin: 621705

Copy to:
1.The Commissioner, SENTHURAI-Panchayat Union, Sendurai Taluk, Ariyalur District .
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, ARIYALUR.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Triuchirappalli.
4. File

42

POLLUTION PREVENTION PAYS
அகம் காய்மை வாய்மைக்கு ! புறம் காய்மை வாய்வைக்கு !

Annexure - 7

TAMILNADU POLLUTION CONTROL BOARD

SPECIAL CONDITIONS

1. This consent to operate is valid for operating the facility for the manufacture of products (Col. 2) at the rate (Col. 3) mentioned below. Any change in the products and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
	Product Details		
1.	Drilling a hydrocarbon well	1	Nos.

2. This consent to operate is valid for operating the facility with the below mentioned permitted outlets for the discharge of sewage/trade effluent. Any change in the outlets and the quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Outlet No.	Description of Outlet	Maximum daily discharge in KLD	Point of disposal
Effluent Type : Sewage			
1.	Outlet-1	2.0	On Industrys own land
Effluent Type : Trade Effluent			
1.	Outlet-1	8.0	Solar Evaporation Pans

3. The effluent discharge shall not contain constituents in excess of the tolerance Limits as laid down hereunder.

POLLUTION PREVENTION PAYS
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Annexure - 7

Sl. No.	Parameters	Unit	TOLERANCE LIMITS - OUTLETS -Nos			
			Sewage	Trade Effluent		
			1	1		
1.	Temperature	oC	-	shall not exceed 5°C above the receiving water temperature		
2.	Total Suspended Solids	mg/l	30	100		
3.	Total Dissolved solids (inorganic)	mg/l	-	2100		
4.	Oil & Grease	mg/l	-	10		
5.	Biochemical Oxygen Demand (3 days at 27oC)	mg/l	20	30		
6.	pH	-	5.5 to 9	5.5 to 9		
7.	Particle size of Suspended solids	-	-	shall pass 850 micron IS sieve		
8.	Chemical Oxygen Demand	mg/l	-	250		
9.	Chloride (as Cl)	mg/l	-	1000		
10.	Sulphates (as SO4)	mg/l	-	1000		
11.	Total Residual Chlorine	mg/l	-	1		
12.	Ammonical Nitrogen (as N)	mg/l	-	50		
13.	Total Kjeldahl Nitrogen (as N)	mg/l	-	100		
14.	Free Ammonia (as NH3)	mg/l	-	5		
15.	Arsenic (as As)	mg/l	-	0.2		
16.	Mercury (as Hg)	mg/l	-	0.01		
17.	Lead (as Pb)	mg/l	-	0.1		
18.	Cadmium(as Cd)	mg/l	-	2		
19.	Hexavalent Chromium (as Cr+6)	mg/l	-	0.1		
20.	Total Chromium (as Cr)	mg/l	-	2		
21.	Copper (as Cu)	mg/l	-	3		
22.	Zinc (as Zn)	mg/l	-	1		
23.	Selenium (as Se)	mg/l	-	0.05		
24.	Nickel (as Ni)	mg/l	-	3		
25.	Boron (as B)	mg/l	-	2		
26.	Percent Sodium	%	-	-		
27.	Cyanide (as CN)	mg/l	-	0.2		
28.	Fluoride (as F)	mg/l	-	2		
29.	Residual Sodium Carbonate	mg/l	-	-		
30.	Dissolved Phosphates(as P)	mg/l	-	5		
31.	Radioactive materials b). Beta emitters	micro curie/ml	-	10-6		
32.	Sulphide (as S)	mg/l	-	2		
33.	Radioactive materials a) Alpha emitters	micro curie/ml	-	10-7		
34.	Pesticides	mg/l	-			

Annexure - 7

35.	Phenolic Compounds (as C6H5OH)	mg/l	-	1		

4. All units of the sewage and Trade effluent treatment plants shall be operated efficiently and continuously so as to achieve the standards prescribed in Sl No.3 above or to achieve the zero liquid discharge of effluent as applicable.

5. The occupier shall maintain the Electro Magnetic Flow Meters/water Meters installed at the inlet of the water supply connection for each of the purposes mentioned below for assessing the quantity of water used and ensuring that such meters are easily accessible for inspection and maintenance and for other purposes of the Act.
   a. Industrial Cooling, Spraying in mine pits or boiler feed.
   b. Domestic purpose.
   c. Process.

6. The occupier shall maintain the Electro Magnetic Flow Meters with computer recording arrangement for measuring the quantity of effluent generated and treated for the monitoring purposes of the Act.

7. Log book for each of the unit operations of ETP have to be maintained to reflect the working condition of ETP along with the readings of the Electro Magnetic Flow Meters installed to assess effluent quantity and the same shall be furnished for verification of the Board officials during inspection.

8. The occupier shall at his own cost get the samples of effluent/surface water/ground water collected in and around the unit by Board officials and analyzed by the TNPC Board Laboratory periodically.

9. Any upset condition in any of the plants of the factory which is, likely to result in increased effluent discharge and result in violation of the standards mentioned in Sl. No.3 above shall be reported to the Member Secretary / Joint Chief Environmental Engineer-Monitoring and the concerned District/Assistant Environmental Engineer of the Board by e-mail immediately and subsequently by Post with full details of such upset condition.

10. The occupier shall always comply and carryout the order/directions issued by the Board in this Consent Order and from time to time without any negligence. The occupier shall be liable for action as per provisions of the Act in case of non compliance of any order/directions issued.

11. The occupier shall develop adequate width of green belt at the rate of 400 numbers of trees per Hectare.

12. The occupier shall provide and maintain rain water harvesting facilities.

13. The occupier shall ensure that there shall not be any discharge of effluent either treated or untreated into storm water drain at any point of time.

14. In the case of zero liquid discharge of effluent units, the occupier shall adhere the following conditions as laid under.

i). The occupier shall ensure zero liquid discharge of effluent, thereby no discharge of untreated / treated effluent on land or into any water bodies either inside or outside the premises at any point of time.

ii) The occupier shall operate and maintain the Zero liquid discharge treatment components comprising of Primary, Secondary and tertiary treatment systems at all times and ensure that the RO permeate/Evaporator condensate shall be recycled in the process and the final RO reject shall be disposed off with the reject management system ensuring zero liquid discharge of effluents in the premises.

iii) The occupier shall operate and maintain the reject management system effectively and recover the salt from the system which shall be reused in the process if reusable or shall be disposed off as ETP sludge.

iv) In case of failure to achieve zero discharge of effluents for any reason, the occupier shall stop its production and operations forthwith and shall be reported to the Member Secretary/Joint Chief Environmental Engineer-Monitoring and the concerned District/Assistant Environmental Engineer of the Board by e-mail immediately and subsequently by Post with full details of such upset condition.

v) The occupier shall restart the production only after ascertaining that the Zero discharge treatment system can perform effectively for achieving zero discharge of effluents.

Additional Conditions:

Annexure - 2

1.The unit shall comply with the conditions stipulated in the environmental clearance accorded by MOEF, GOI vide their Lr.No.J-11011/188/2013-IA- II(I) dated.10.09.2015.
2.The unit shall treat the sewage in a septic tank and dispose into soak pit arrangements so as to satisfy the standards prescribed by the Board.
3.The unit shall collect the drill cutting and wash water in HDPE lined pits and evaporated. The unit shall ensure that no trade effluent let outside under any circumstances.
4.The unit shall adopt well laid site restoration plan as reported.
5.The unit shall develop green belt of 100m width around the premises.
6.The unit shall comply with the conditions in the HWA and standards prescribed for drill sites in the EP Act 1986.

Member Secretary,
Tamilnadu Pollution Control Board,
Chennai

5/1/14

46

Annexure - I

TAMILNADU POLLUTION CONTROL BOARD

CONSENT ORDER NO. 160521411373 DATED: 05/01/2016.

PROCEEDINGS NO.T12/TNPCB/F.0101ARY/RS/ARY/A/2016 DATED: 05/01/2016

SUB: Tamil Nadu Pollution Control Board –CONSENT TO OPERATE –DIRECT -M/s. M/S ONGC LTD - NPAF DRILLSITE , S.F.No. 283/3, 283/4, 283/2A, 283/2B, 283/2C, 283/5P, 282/3 (Part), 282/6A2, 282/5, 282/6A1, 282/7, 282/4, 282/2, KILIMANGALAM villageSendurai Taluk and Ariyalur District - Consent for operation of the plant and discharge of emissions under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 (Central Act 14 of 1981) –Issued- Reg.

Ref: 1.Unit's application for CTO direct vide No. 1411373 dated 25.09.2015.
2.FIR.No : F.0101ARY/R/S/AE/ARY/2015 dated 01/10/2015.
3.Board's (Consent Clearance Committee) Resolution Item No.187 – 11,Dated: 17.12.2015.

CONSENT TO OPERATE is hereby granted under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 (Central Act 14 of 1981) (hereinafter referred to as "The Act") and the rules and orders made there under to

Group General Manager (Drilling),
M/s . M/S ONGC LTD - NPAF DRILLSITE
S.F No.283/3, 283/4, 283/2A, 283/2B, 283/2C, 283/5P, 282/3 (Part), 282/6A2, 282/5, 282/6A1, 282/7, 282/4, 282/2,
KILIMANGALAM Village,
Sendurai Taluk,
Ariyalur District.

Authorizing the occupier to operate the industrial plant in the Air Pollution Control Area as notified by the Government and to make discharge of emission from the stacks/chimneys.

This is subject to the provisions of the Act, the rules and the orders made there under and the terms and conditions incorporated under the Special and General conditions stipulated in the Consent Order issued earlier and subject to the special conditions annexed.

This CONSENT is valid for the period ending March 31, 2016

Member Secretary,
Tamilnadu Pollution Control Board,
Chennai
5/1/16

To
Group General Manager (Drilling),
M/s.M/S ONGC LTD - NPAF DRILLSITE,
Kilimangalam Village, Sendurai Taluk, Ariyalur District,
Pin: 621705

Copy to:

1.The Commissioner, SENTHURAI-Panchayat Union, Sendurai Taluk, Ariyalur District .
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, ARIYALUR.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Trichirappalli.
4. File

47

Annexure - 7

SPECIAL CONDITIONS

1. This consent to operate is valid for operating the facility for the manufacture of products (Col. 2) at the rate (Col. 3) mentioned below. Any change in the products and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
	Product Details		
1.	Drilling a hydrocarbon well	1	Nos.

2. This consent to operate is valid for operating the facility with the below mentioned emission/noise sources along with the control measures and/or stack. Any change in the emission source/control measures/change in stack height has to be brought to the notice of the Board and fresh consent/Amendment has to be obtained.

I	**Point source emission with stack :**			
Stack No.	**Point Emission Source**	**Air pollution Control measures**	**Stack height from Ground Level in m**	**Gaseous Discharge in Nm3/hr**
001	Genset-1215 KVA	Acoustic enclosures with stack	4.5	34000
002	Genset-1215 KVA	Acoustic enclosures with stack	4.5	34000
003	Genset-1215 KVA	Acoustic enclosures with stack	4.5	34000
004	Genset-1215 KVA	Acoustic enclosures with stack	4.5	34000
II	**Fugitive/Noise emission :**			
Sl. No.	**Fugitive or Noise Emission sources**	**Type of emission**	**Control measures**	

3(a). The emission shall not contain constituents in excess of the tolerance limits as laid down hereunder :

Sl.	Parameter	Unit	Tolerance limits	Stacks

Annexure enclosed if applicable. :-

3.(b) The Ambient Air in the industrial plant area shall not contain constituents in excess of the tolerance limits prescribed below.

POLLUTION PREVENTION PAYS
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Sl. No.	Pollutant	Time Weighted Average	Unit	Tolerance Limits	
				Industrial, Residential, Rural and other area	Ecologically Sensitive Area (notified by Central Govt.)
1.	Sulphur Dioxide (SO2)	Annual 24 hours	microgram/m3 microgram/m3	50 80	20 80
2.	Nitrogen Dioxide (NO2)	Annual 24 hours	microgram/m3 microgram/m3	40 80	30 80
3.	Particulate Matter (Size Less than 10 micro M) or PM10	Annual 24 hours	microgram/m3 microgram/m3	60 100	60 100
4.	Particulate Matter (Size Less than 2.5 micro M) or PM2.5	Annual 24 hours	microgram/m3 microgram/m3	40 60	40 60
5.	Ozone (O3)	Annual 24 hours	8 Hours 1 Hour	100 180	100 180
Sl. No.	**Pollutant**	**Time Weighted Average**	**Unit**	**Tolerance Limits**	
				Industrial, Residential, Rural and other area	**Ecologically Sensitive Area (notified by Central Govt.)**
6.	Lead (Pb)	Annual 24 hours	microgram/m3 microgram/m3	0.5 1.0	0.5 1.0
7.	Carbon Monoxide (CO)	8 Hours 1 Hour	miligram/m3 miligram/m3	02 04	02 04
8.	Ammonia (NH3)	Annual 24 hours	microgram/m3 microgram/m3	100 400	100 400
9.	Benzene (C6H6)	Annual	microgram/m3	5	5
10.	Benzo(O) Pyrene (BaP) –particulate phase only	Annual	nanogram/m3	01	01
11.	Arsenic (As)	Annual	nanogram/m3	06	06
12.	Nickel (Ni)	Annual	nanogram/m3	20	20

3(c) The Ambient Noise Level in the industrial plant area shall not exceed the limits prescribed below:

Limits in L.eq.-dB(A)	Day Time	Night Time
IndustrialArea	**75**	**70**

4. All units of the Air pollution control measures shall be operated efficiently and continuously so as to achieve the standards prescribed in Sl. No.3 above.
5. The occupier shall not change or alter quality or quantity or the rate of emission or replace or alter the air pollution control equipment or change the raw material or manufacturing process resulting in change in quality and/or quantity of emissions without the previous written permission of the Board.
6. The occupier shall maintain log book regarding the stack monitoring system or operation of the plant or any other particulars for each of the unit operations of air pollution control systems to reflect the working condition which shall be furnished for verification of the Board officials during inspection.
7. The occupier shall at his own cost get the samples of emission/air/noise levels collected and analyzed by the TNPC Board Laboratory once in every 6 months/once in a year/periodically for the parameters as prescribed.

Annexure - 7

TAMILNADU POLLUTION CONTROL BOARD

8. Any upset condition in any of the plants of the factory which is likely to result in increased emissions and result in violation of the standards mentioned in Sl.No.3 shall be reported to the Member Secretary / Joint Chief Environmental Engineer-Monitoring and the concerned District/Assistant Environmental Engineer of the Board by e-mail immediately and subsequently by Post with full details of such upset condition.

9. The occupier shall always comply and carryout the order/directions issued by the Board in this Consent Order and from time to time without any negligence. The occupier shall be liable for action as per provisions of the Act in case of non compliance of any order/directions issued.

Additional Conditions:

1.The unit shall comply with the conditions stipulated in the environmental clearance accorded by MOEF, GOI vide their Lr.No.J-11011/188/2013-IA- II(I) dated.10.09.2015.
2.The unit shall ensure that emission let out from the stacks attached to diesel engines shall satisfy the emission/Ambient Air Quality Standards prescribed by the Board.
3.The unit shall develop green belt of 100m width around the premises.

Member Secretary,
Tamilnadu Pollution Control Board,
Chennai

5/1/16

POLLUTION PREVENTION PAYS
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GENERAL CONDITIONS

1. The occupier shall make an application along with the prescribed consent fee for grant of renewal of consent at least 60 days before the date of expiry of this Consent Order along with all the required particulars ensuring that there is no change in production quantity and emission.
2. This Consent is given by the Board in consideration of the particulars given in the application. Any change or alteration or deviation made in actual practice from the particulars furnished, in the application will also be ground for review/variation/revocation of the Consent Order under Section 21 of the Act.
3. The conditions imposed shall continue in force until revoked under Section 21 of the Act.
4. After the issue of this order, all the 'Consent to Operate' orders issued previously under Air (Prevention and Control of Pollution) Act, 1981 as amended stands defunct.
5. The occupier shall maintain an Inspection Register in the factory so that the inspecting officer shall record the details of the observations and instructions issued to the unit at the time of inspection for adherence.
6. The occupier shall provide and maintain an alternate power supply along with separate energy meter for the Air Pollution Control measures sufficient to ensure continuous operation of all pollution control equipments to ensure compliance.
7. The occupier shall provide all facilities to the Board officials for collection of samples in and around the factory at any time.
8. The applicant shall display the flow diagram of the sources of emission and pollution control systems provided at the site.
9. The liquid effluent arising out of the operation of the air pollution control equipment shall also be treated in a manner and to the satisfaction of standards prescribed by the Board in accordance with the provisions of Water (Prevention and Control of Pollution) Act, 1974 as amended.
10. The air pollution control equipments, location of inspection chambers and sampling port holes shall be made easily accessible at all time.
11. In case of any episodal discharge of emission, the industry shall take immediate action to bring down the emission within the limits prescribed by the Board.
12. If applicable, the occupier has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances.
13. The issuance of this consent does not authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any natural watercourse or in Government Poromboke lands.
14. The issuance of this Consent does not convey any property right in either real personal property or any exclusive privileges, nor does it authorize any injury to private property or Government property or any invasion of personal rights nor any infringement of Central, State laws or regulation.
15. The occupier shall forth with keep the Board informed of any accident of unforeseen act or event of any poisonous, noxious or polluting matter or emissions are being discharged into stream or well or air as a result of such discharge, water or air is being polluted.
16. If due to any technological improvements or otherwise the Board is of opinion that all or any of the conditions referred to above requires variation (including the change of any treatment system, either in whole or in part) the Board shall, after giving the applicant an opportunity of being heard, vary all or any of such conditions and thereupon the applicant shall be bound to comply with the conditions as so varied.
17. In case there is any change in the constitution of the management, the occupier of the new management shall file fresh application under Air (Prevention and Control of Pollution) Act, 1981, as amended in Form-I alongwith relevant documents of change of management immediately and get the necessary amendment with renewal of consent order.
18. In case there is any change in the name of the company alone, the occupier shall inform the same with relevant documents immediately and get the necessary amendments for the change of name from the Board.

20. The occupier shall forth with keep the Board informed of any accident of unforeseen act or event of any poisonous, noxious or polluting matter or emissions are being discharged into stream or well or air as a result of such discharge, water or air is being polluted.

21. If due to any technological improvements or otherwise the Board is of opinion that all or any of the conditions referred to above requires variation (including the change of any treatment system, either in whole or in part) the Board shall, after giving the applicant an opportunity of being heard, vary all or any of such conditions and thereupon the applicant shall be bound to comply with the conditions as so varied.

22. In case there is any change in the constitution of the management, the occupier of the new management shall file fresh application under Water (Prevention and Control of Pollution) Act, 1974, as amended in Form-II alongwith relevant documents of change of management immediately and get the necessary amendment with renewal of consent order.

23. In case there is any change in the name of the company alone, the occupier shall inform the same with relevant documents immediately and get the necessary amendments for the change of name from the Board.

24. The occupier shall display this consent order granted to him in a prominent place for perusal of the inspecting Officers of this Board.

Member Secretary,
Tamilnadu Pollution Control Board,
Chennai

5/1/16