



Oil and Natural Gas Corporation Limited
HSE Section, Cauvery Basin

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No. CB/HSE/MoEF compliance/2016-17

Thursday, 23 June 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 01.10.2015 to 31.3.2016
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 vide EC No. F. No. J-11011/188/2013-1A II (1) dated 10th Sept. 2015 for NELP - VI Block of Cauvery Basin, Chennai. In this regard, the six months compliance report for the period 01.10.15 to 31.03 16 is enclosed along with the annexures.

Regards,

S. Velu
23/06/16
(S. Velu)
GM (C & M)-I/c HSE

Encl: As above

v/c

**Compliance to the Environment Clearance issued by MOEF Vide Itr. No. F. No. J-11011/188/2013-1A II (1) dated 10th Sept. 2015
For the period 01.10.2015-31.3.2016**

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 future, prior clearance will be obtained from the Ministry.
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 guidelines of Oil Industry Safety Directorate [OISD]. No flare stacks are used during production testing of exploratory wells and only flare pipes are used as the testing lasts only for a few days and flaring is done for a few hours/day. Flare stacks are used only in 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 16 th 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 was monitored for PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , CO Methane and non-methane HC, etc., by M/s. Hubert Enviro, Chennai (NABL Accredited and recognised by MoEF) near the closest Human settlements. (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 and found no traces of Mercury. However mercury was analysed in air, water and drill cuttings twice during drilling period. In ONGC operations there is no 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 Enviro, Chennai (NABL Accredited and recognised by MoEF) and the report is enclosed. Acoustic enclosures are provided in DG sets; The 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 site and the drainage system is designed to prevent mixing of oil contaminated and non-oil contaminated waste. Effluent water from drill site is transported by tankers to the nearest ONGC's ETP for treatment and disposal.
9.	Drilling wastewater including drill cuttings wash water shall be collected in disposal pit lined with	Drill cuttings, drilling fluids and washings are

	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 avoid percolation into soil. The liquid is allowed for solar evaporation and the solid component is covered with a layer of local excavated soil. The membership of TSDF obtained Copy attached (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 drill-sites. The sewage are disposed off through septic 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 waste oil disposed to MSTC Ltd., (Govt. of India Enterprise)--TNPCC authorised waste oil recycler 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 30 th August, 2005.	Drill cuttings, drilling fluids and washings are collected in HDPE lined waste pits to avoid percolation into soil. The liquid is allowed for solar evaporation and the solid component is covered with 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 contingency plan is kept in place. Production testing is carried out only for few days and the flaring is restricted to few hours only.
14.	The company shall develop a contingency plan for H ₂ S release including all necessary aspects from evacuation to resumption of normal operations. The workers shall be provided with personal H ₂ S detectors in locations of high risk of exposure along with self-containing breathing apparatus.	There is no hydrogen sulphide presence in the block. However Hydrogen sulphide contingency plan is in place and all personnel operating in H ₂ S environment are provided with detectors and SCBA.
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 Govt. 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 well location. None of the wells are declared as 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 is 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 well location. None of the wells are declared as 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 Hydrocarbon Environment clearance for development wells will 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 been 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/s Hubert Enviro Services, Chennai (NABL Accredited and recognised by MoEF) and the report is enclosed (Annexure- 6)
23.	All the commitments made to the public during public hearing/ public consultation meeting held on 20 th 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 well has been earmarked towards the Enterprise Social Commitment. Basic social needs have been identified and the NGOs are being identified for implementation.
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 Operating Procedures) in place for all onshore operations covering all aspects of the operations. In addition, the personnel are trained at ONGC's Institute of Petroleum Safety, Health and Environment Management, Goa. SOP are available at drill-sites. All the results of environmental monitoring will be available at the project site office/uploaded in company's public domain.
GENERAL CONDITIONS		
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 pollution Control Board for the 01 wells i.e., NPAF drilled during 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 and Hazardous waste is sent to TSDF (Annexure-4)
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 dBA (night time).	Noise levels were measured by M/s. Hubert Enviro Services, Chennai (NABL Accredited and 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 exists. Environmental monitoring is done through MoEF recognized and NABL accredited labs are carried out.
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 from any Panchayat, Zillah Parishad/Municipal Corporation, Urban local body and the local NGO. The clearance letter is uploaded in the Company's 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 TNPCCB, The criteria pollutant levels namely: SPM, RSPM, SO ₂ , NO _x , HC(Methane& Non-Methane), VOCs(ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	The status of compliance of stipulated Environment clearance conditions including the results of the monitored data are sent to the regional office of the MOEF, the respective Zonal office of CPCB and the TNPCCB and are uploaded. All the results of environmental monitoring are being displayed at the drill-site and uploaded in company's 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 TNPCC. The Regional office of this Ministry /CPCB/TNPCC 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 31 st 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 & ri Environmental Statement - Form V will also uploaded in 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 TNPCC 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 daili Dinakaran in Tamil and Hindu on 02.01.2011 and t same was sent to RO of MoEFCC, Chennai. Copi already submitted along with earlier complian 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 informed t 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, PM₁₀, PM_{2.5}, SO₂, NO₂ and CO are given in Table.

TEST REPORT

Page 1 of 1

Sample Description : Ambient Air
 Sampling Mark : Down Wind (Near DG Area)
 Sample Drawn By : Hubert Enviro Care Systems Private Limited
 Sampling/Received Date : 07/10/2015 – 08/10/2015
 Analysis Commenced On : 08/10/2015

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/m ³	9.40	10.60	9.86	IS 5182 (P-2):2001(Reaff 2006)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m ³	25.09	24.83	24.30	IS: 5182 (P-6) 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m ³	50.96	52.90	51.87	IS: 5182 (P-23) 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m ³	26.12	27.46	25.66	HECS/AIR/Ambient/SOP011	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m ³	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/m ³	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/m ³	BDL(DL 10)	BDL(DL 10)	BDL(DL 10)	HECS/AIR/Ambient/SOP013	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m ³	BDL(DL 5)	BDL(DL 5)	BDL(DL 5)	HECS/AIR/Ambient/SOP012	400 (24 hours)	100 (Annual)
9	Benzene	µg/m ³	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/m ³	BDL(DL 1)	BDL(DL 1)	BDL(DL 1)	IS: 5182 (P-12) 2004(RA 2009)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m ³	BDL(DL 1)	BDL(DL 1)	BDL(DL 1)	HECS/AIR/Ambient/SOP014	6 (Annual)	6 (Annual)
12	Nickel	ng/m ³	BDL(DL 5)	BDL(DL 5)	BDL(DL 5)	HECS/AIR/Ambient/SOP007	20 (Annual)	20 (Annual)
13	Hydrocarbons	ppb	988	956	986	IS 5182 Part 21 : 2001	NA	NA
14	Non Methane Hydrocarbons	ppb	553	570	563	IS 5182 Part 21 : 2001	NA	NA
15	Hydrogen Sulphide	µg/m ³	BDL(DL 6)	BDL(DL 6)	BDL(DL 6)	IS 5182 Part 7 : 2003	NA	NA
16	Mercury	ng/m ³	BDL(DL 1)	BDL(DL 1)	BDL(DL 1)	NIOSH 6009	NA	NA
17	TVOC	ppm	2.4	2.3	2.1	PID Method	NA	NA
18	SPM	µg/m ³	92.4	90.5	93.6	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.

TEST REPORT

Page 1 of 1

Sample Description : DG Stack Emission
 Sampling Mark : DG 1215 KVA – 1
 Sample Drawn By : Hubert Enviro Care Systems Private Limited
 Sampling/Received Date : 07/10/2015 – 08/10/2015
 Analysis Commenced On : 08/10/2015

S.No.	Parameters	Units	Results	Test Method	Standards
1	Stack Diameter	meter	0.2	-	-
2	Stack Temperature	°C	230	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	681	IS 11255 (P-3)2008	-
5	Suspended Particulate Matter	mg/Nm ³	52.43	IS 11255 (P-1) 1985(Reaff 2003)	150
6	Sulphur Dioxide	mg/Nm ³	18.0	IS 11255 (P-2) :1985(Reaff.2003)	-
7	Nitrogen Dioxide	ppm	285.10	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	16.4	IS 13270:1992(Reaff.2009)	-
11	Volatile Organic Compound	ppm	3.6	PID Gas Detector	-
12	Hydrocarbon	ppm	8.5	NDIR technique	-
13	Moisture	%	1.26	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, 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

Hubert Enviro Care Systems (P) Ltd.

TEST REPORT

Page 1 of 1

Sample Description : DG Stack Emission
 Sampling Mark : DG 1215 KVA - 2
 Sample Drawn By : Hubert Enviro Care Systems Private Limited
 Sampling/Received Date : 07/10/2015 - 08/10/2015
 Analysis Commenced On : 08/10/2015

S.No.	Parameters	Units	Results	Test Method	Standards
1	Stack Diameter	meter	0.2	-	-
2	Stack Temperature	°C	200	IS 11255(P-3)2008	-
3	Velocity of flue gas	m/sec	10.0	IS 11255 (P-3)2008	-
4	Flow rate of stack gases	Nm ³ /hr	647	IS 11255 (P-3)2008	-
5	Suspended Particulate Matter	mg/Nm ³	50.42	IS 11255 (P-1) 1985(Reaff 2003)	150
6	Sulphur Dioxide	mg/Nm ³	12.86	IS 11255 (P-2) :1985(Reaff 2003)	-
7	Nitrogen Dioxide	ppm	251.25	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	15.6	IS 13270:1992(Reaff 2009)	-
11	Volatile Organic Compound	ppm	3.5	PID Gas Detector	-
12	Hydrocarbon	ppm	7.2	NDIR technique	-
13	Moisture	%	1.26	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, 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

Hubert Enviro Care Systems (P) Ltd.

TEST REPORT

Page 1 of 1

Sample Description : Powder
Sampling Mark : Lime Stone Powder
Sample Drawn By : Hubert Enviro Care Systems Private Limited
Sampling/Received Date : 07/10/2015 – 08/10/2015
Analysis Commenced On : 08/10/2015

S.N o.	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.

TEST REPORT

Page 1 of 1

Sample Description : Powder
 Sampling Mark : Lime Stone Powder
 Sample Drawn By : Hubert Enviro Care Systems Private Limited
 Sampling/Received Date : 07/10/2015 - 08/10/2015
 Analysis Commenced On : 08/10/2015

S.N o.	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.

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. The Noise quality monitoring stations.

6.2 Data Presentation

The abstract of Noise level data are given in Table.

TEST REPORT

Sample Description : Noise Level Data
 Sample Location : Near Main Gate
 Sample Drawn By : Hubert Enviro Care Systems Private Limited
 Sampling/Received Date : 07/10/15 – 08/10/15

S.No	RUN TIME		NOISE LEVEL dB(A)
	TIME ON	TIME OFF	
1	06.00	07.00	52.4
2	07.00	08.00	53.1
3	08.00	09.00	55.4
4	09.00	10.00	56.3
5	10.00	11.00	57.2
6	11.00	12.00	50.9
7	12.00	13.00	53.8
8	13.00	14.00	56.1
9	14.00	15.00	57.4
10	15.00	16.00	59.2
11	16.00	17.00	50.8
12	17.00	18.00	54.7
13	18.00	19.00	56.3
14	19.00	20.00	52.2
15	20.00	21.00	50.8
16	21.00	22.00	51.9
NOISE LEVEL (AVG)			54.3 dB(A)

Limits set by 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).

TEST REPORT

Sample Description : Noise Level Data
 Sample Location : Near Canteen
 Sample Drawn By : Hubert Enviro Care Systems Private Limited
 Sampling/Received Date : 07/10/15 – 08/10/15

S.No	RUN TIME		NOISE LEVEL dB(A)
	TIME ON	TIME OFF	
1	06.00	07.00	68.6
2	07.00	08.00	65.9
3	08.00	09.00	66.8
4	09.00	10.00	66.5
5	10.00	11.00	68.9
6	11.00	12.00	65.1
7	12.00	13.00	66.4
8	13.00	14.00	68.1
9	14.00	15.00	67.3
10	15.00	16.00	67.4
11	16.00	17.00	69.1
12	17.00	18.00	67.4
13	18.00	19.00	65.3
14	19.00	20.00	68.4
15	20.00	21.00	63.1
16	21.00	22.00	64.6
NOISE LEVEL (AVG)			66.8 dB(A)

Limits set by 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).

TEST REPORT

Sample Description : Noise Level Data
 Sample Location : Near Canteen
 Sample Drawn By : Hubert Enviro Care Systems Private Limited
 Sampling/Received Date : 07/10/15 – 08/10/15

S.No	RUN TIME		NOISE LEVEL dB(A)
	TIME ON	TIME OFF	
17	22.00	23.00	65.6
18	23.00	24.00	63.2
19	24.00	01.00	66.1
20	01.00	02.00	62.4
21	02.00	03.00	63.8
22	03.00	04.00	61.3
23	04.00	05.00	58.4
24	05.00	06.00	56.7
NOISE LEVEL (AVG)			62.2 dB(A)

Limits set by 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).

TEST REPORT

Sample Description : Noise Level Data
 Sample Location : Near DG Area
 Sample Drawn By : Hubert Enviro Care Systems Private Limited
 Sampling/Received Date : 07/10/15 – 08/10/15

S.No	RUN TIME		NOISE LEVEL dB(A)
	TIME ON	TIME OFF	
1	06.00	07.00	85.2
2	07.00	08.00	81.6
3	08.00	09.00	81.9
4	09.00	10.00	80.9
5	10.00	11.00	81.4
6	11.00	12.00	82.4
7	12.00	13.00	83.6
8	13.00	14.00	83.7
9	14.00	15.00	83.5
10	15.00	16.00	84.7
11	16.00	17.00	86.4
12	17.00	18.00	83.8
13	18.00	19.00	83.1
14	19.00	20.00	80.5
15	20.00	21.00	81.5
16	21.00	22.00	83.5
NOISE LEVEL (AVG)			83.0 dB(A)

Limits set by 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).

Hubert Enviro Care Systems (P) Ltd.

TEST REPORT

Sample Description : Noise Level Data
 Sample Location : Near DG Area
 Sample Drawn By : Hubert Enviro Care Systems Private Limited
 Sampling/Received Date : 07/10/15 - 08/10/15

S.No	RUN TIME		NOISE LEVEL dB(A)
	TIME ON	TIME OFF	
17	22.00	23.00	83.8
18	23.00	24.00	81.9
19	24.00	01.00	83.4
20	01.00	02.00	84.6
21	02.00	03.00	85.2
22	03.00	04.00	82.9
23	04.00	05.00	84.6
24	05.00	06.00	83.1
NOISE LEVEL (AVG)			83.7 dB(A)

Limits set by 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).

TEST REPORT

Sample Description : Noise Level Data
 Sample Location : Suction Tank
 Sample Drawn By : Hubert Enviro Care Systems Private Limited
 Sampling/Received Date : 07/10/15 – 08/10/15

S.No	RUN TIME		NOISE LEVEL dB(A)
	TIME ON	TIME OFF	
1	06.00	07.00	68.5
2	07.00	08.00	71.4
3	08.00	09.00	69.8
4	09.00	10.00	70.2
5	10.00	11.00	73.8
6	11.00	12.00	70.8
7	12.00	13.00	71.2
8	13.00	14.00	73.8
9	14.00	15.00	70.3
10	15.00	16.00	68.1
11	16.00	17.00	67.8
12	17.00	18.00	69.6
13	18.00	19.00	68.7
14	19.00	20.00	69.3
15	20.00	21.00	72.3
16	21.00	22.00	68.4
NOISE LEVEL (AVG)			70.3 dB(A)

Limits set by 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).

TEST REPORT

Sample Description : **Noise Level Data**
 Sample Location : **Suction Tank**
 Sample Drawn By : **Hubert Enviro Care Systems Private Limited**
 Sampling/Received Date : **07/10/15 – 08/10/15**

S.No	RUN TIME		NOISE LEVEL dB(A)
	TIME ON	TIME OFF	
17	22.00	23.00	66.3
18	23.00	24.00	66.6
19	24.00	01.00	65.1
20	01.00	02.00	64.3
21	02.00	03.00	65.8
22	03.00	04.00	58.7
23	04.00	05.00	56.9
24	05.00	06.00	61.2
NOISE LEVEL (AVG)			63.1 dB(A)

Limits set by 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).

TEST REPORT

Sample Description : Noise Level Data
 Sample Location : NPAE E - 760-16
 Sample Drawn By : Hubert Enviro Care Systems Private Limited
 Sampling/Received Date : 07/10/15 - 08/10/15

S.No	RUN TIME		NOISE LEVEL dB(A)
	TIME ON	TIME OFF	
1	06.00	07.00	74.3
2	07.00	08.00	72.4
3	08.00	09.00	70.4
4	09.00	10.00	76.3
5	10.00	11.00	74.2
6	11.00	12.00	71.8
7	12.00	13.00	73.9
8	13.00	14.00	74.3
9	14.00	15.00	75.7
10	15.00	16.00	73.7
11	16.00	17.00	73.9
12	17.00	18.00	74.8
13	18.00	19.00	76.9
14	19.00	20.00	74.7
15	20.00	21.00	72.8
16	21.00	22.00	73.8
NOISE LEVEL (AVG)			74.0 dB(A)

Limits set by 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).

TEST REPORT

Sample Description : Noise Level Data
 Sample Location : NPAE E – 760-16
 Sample Drawn By : Hubert Enviro Care Systems Private Limited
 Sampling/Received Date : 07/10/15 – 08/10/15

S.No	RUN TIME		NOISE LEVEL dB(A)
	TIME ON	TIME OFF	
17	22.00	23.00	70.4
18	23.00	24.00	79.7
19	24.00	01.00	71.3
20	01.00	02.00	68.3
21	02.00	03.00	75.6
22	03.00	04.00	67.1
23	04.00	05.00	76.2
24	05.00	06.00	75.7
NOISE LEVEL (AVG)			73.0 dB(A)

Limits set by 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).

TEST REPORT

Sample Description : Noise Level Data
 Sample Location : South East
 Sample Drawn By : Hubert Enviro Care Systems Private Limited
 Sampling/Received Date : 07/10/15 – 08/10/15

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)

Limits set by 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).

TEST REPORT

Sample Description : **Noise Level Data**
 Sample Location : **South East**
 Sample Drawn By : **Hubert Enviro Care Systems Private Limited**
 Sampling/Received Date : **07/10/15 – 08/10/15**

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)

Limits set by 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).

TEST REPORT

Sample Description : **Noise Level Data**
 Sample Location : **Near Main Gate**
 Sample Drawn By : **Hubert Enviro Care Systems Private Limited**
 Sampling/Received Date : **07/10/15 – 08/10/15**

S.No	RUN TIME		NOISE LEVEL dB(A)
	TIME ON	TIME OFF	
17	22.00	23.00	55.2
18	23.00	24.00	53.4
19	24.00	01.00	50.8
20	01.00	02.00	48.7
21	02.00	03.00	51.3
22	03.00	04.00	50.9
23	04.00	05.00	52.8
24	05.00	06.00	51.7
NOISE LEVEL (AVG)			51.9 dB(A)

Limits set by 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).

TEST REPORT

Page 1 of 1

Sample Description : DG Stack Emission
 Sampling Mark : DG 1215 KVA – 1
 Sample Drawn By : Hubert Enviro Care Systems Private Limited
 Sampling/Received Date : 07/10/2015 – 08/10/2015
 Analysis Commenced On : 08/10/2015

S.No.	Parameters	Units	Results	Test Method	Standards
1	Stack Diameter	meter	0.2	-	-
2	Stack Temperature	°C	230	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	681	IS 11255 (P-3)2008	-
5	Suspended Particulate Matter	mg/Nm ³	52.43	IS 11255 (P-1) 1985(Reaff 2003)	150
6	Sulphur Dioxide	mg/Nm ³	18.0	IS 11255 (P-2) 1985(Reaff 2003)	-
7	Nitrogen Dioxide	ppm	285.10	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	16.4	IS 13270:1992(Reaff 2009)	-
11	Volatile Organic Compound	ppm	3.6	PID Gas Detector	-
12	Hydrocarbon	ppm	8.5	NDIR technique	-
13	Moisture	%	1.26	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, 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

Hubert Enviro Care Systems (P) Ltd.

TEST REPORT

Page 1 of 1

Sample Description : DG Stack Emission
 Sampling Mark : DG 1215 KVA - 2
 Sample Drawn By : Hubert Enviro Care Systems Private Limited
 Sampling/Received Date : 07/10/2015 - 08/10/2015
 Analysis Commenced On : 08/10/2015

S.No.	Parameters	Units	Results	Test Method	Standards
1	Stack Diameter	meter	0.2	-	-
2	Stack Temperature	°C	200	IS 11255(P-3)2008	-
3	Velocity of flue gas	m/sec	10.0	IS 11255 (P-3)2008	-
4	Flow rate of stack gases	Nm ³ /hr	647	IS 11255 (P-3)2008	-
5	Suspended Particulate Matter	mg/Nm ³	50.42	IS 11255 (P-1) 1985(Reaff 2003)	150
6	Sulphur Dioxide	mg/Nm ³	12.86	IS 11255 (P-2) :1985(Reaff 2003)	-
7	Nitrogen Dioxide	ppm	251.25	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	15.6	IS 13270:1992(Reaff 2009)	-
11	Volatile Organic Compound	ppm	3.5	PID Gas Detector	-
12	Hydrocarbon	ppm	7.2	NDIR technique	-
13	Moisture	%	1.26	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, 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

Hubert Enviro Care Systems (P) Ltd.



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..... I.O.N.G.C., CMDA
Lower..... I..... 1 - Gandhi Road, Egmore Chennai
Management Association. The membership no. is..... 1162*

Date 28.01.13

[Signature]
Chairman

[Refer to Para 26]

**CATERYASSSETI
MATERIALS GATE PASS - OUT**

WHL 0076
 M/s. TRINEL PAPER MILLS (P) ISSUING DEPARTMENT
 KKL #11, SUPPLY RD
 CIVE NVR
 Issued to whom **M/s. TRINEL PAPER MILLS**
 (Name of the department / company with whose premises the material is to be handled over)
 For supply of **100 Nos KVL-001**
 Purpose: **Shop use**

Qty of material/units	Qty. M/L / Nos / Volume	Vehicle No.	Named persons accompanying materials	Time out	Security check by (Name & Designation with Signature)	Remarks
100 Nos KVL-001 [100 Nos KVL-001] [100 Nos KVL-001]	5	TND89H 1893	D.P. SASTHARAJAN D. SASTHARAJAN	15-11-2015	MSJC (SEA/ONIC/PAPER MILLS) 15-11-2015	15-11-2015

Name & Designation of Superior Officer
B. S. Srinivas

The project co-ordinator or head in command and his signature and seal/Name & designation of persons authorised to carry Materials.
V. G. Srinivas



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 (A Government of India Enterprise)
 SRO Fax : 0445220091
 69, Armanam Street LeelaVathi Building, 2nd Floor Chennai-
 600001

BID SHEET

Auction Ref No :	MSTC/SRO/DNGC KARAIKKAL/2/KARAIKAL/16/7/3216
Auction Period :	2016-05-22 : 11:45:00 — 2016-05-22 : 17:19:00
Currency :	INR

Seller Name :	DNGC KARAIKKAL
Location :	KARAIKAL

Lot No.	Lot Name	Quantity	Status	Buyer	Rate	Mat. Value	ED	VAT/ST	Surcharge	TCS	Others	Total Payment	AL Issd.	DO Issd.
KKL-020 - Prebid Rs. 50000	BURNT/used OIL	150.0 NO	Sold	mstc/Mega petro products/58228	4104.00	615600.00	0.0(0.0%)	30780.0(5.0%)	0.0(0.0%)	0.0 (1.0%)	0.0	646380.00	#	#
KKL-023 - Prebid Rs. 35000	Logging Gun - Assorted Size	15.0 MT	Sold	mstc/SRIKAMATCHE AMMAN STEELS/20305	15999.00	239985.00	0.0(0.0%)	11999.0(5.0%)	0.0(0.0%)	0.0 (1.0%)	0.0	251984.00	#	#

TYPE	MATERIAL VALUE	SECURITY DEPOSIT	NO. OF ITEMS
SOLD	855585.00	213896.00	2
STA	0.00	0.00	0
TOTAL	855585.00	213896.00	

Total no of Items Withdrawn :	0
Total no of Items rejected :	0
Total no of Nobid Items :	0
Total no of Items in the Auction :	0

TEST REPORT

Page 1 of 1

Sample Description : Sludge
 Sampling Mark : Drill Cutting Sample
 Sample Drawn By : Hubert Enviro Care Systems Private Limited
 Sampling/Received Date : 08/11/2015 – 09/11/2015
 Analysis Commenced On : 09/11/2015

S.No.	Parameters	Units	Results	Test Method
1	Zinc	mg/kg	25.4	EPA 3050 B
2	Manganese	mg/kg	340.25	APHA-3030D, APHA-3111B
3	Lead	mg/kg	BDL(DL 0.1)	EPA 3050B/EPA 7420
4	Cadmium	mg/kg	BDL(DL 1)	EPA 3050 B/EPA 7130
5	Copper as Cu	mg/kg	12.7	EPA 3050B/EPA 7210
6	Iron	mg/kg	36028.0	USEPA Method 3050B&EPA 2008
7	Mercury	mg/Kg	BDL(DL 0.1)	EPA 7196 A
8	Nickel	mg/kg	5.39	EPA 3050B/EPA 7520
9	Oil & Grease	mg/kg	BDL(DL1)	USEPA Method 9071B
10	Alkalinity	mg/kg	300.0	USEPA Method 310.2
11	Total Chromium	mg/kg	212.87	USEPA Method 3050B, AAS Method
12	Arsenic	mg/kg	BDL(DL 0.05)	EPA 7062
13	Acidity	mg/kg	BDL(DL1)	HECS/SO/SOP/016
14	Vanadium	mg/kg	BDL(DL0.1)	HECS/SO/SOP/020
15	Cobalt	mg/kg	BDL(DL0.1)	USEPA 3050 B
16	Inorganic Soilds	mg/kg	1.9	APHA 2540 - C

End of Report

Hubert Enviro Care Systems (P) Ltd.

14



TAMILNADU POLLUTION CONTROL BOARD



CONSENT ORDER NO. 150522203373 DATED: 09/11/2015.

PROCEEDINGS NO.T6/TNPCB/F.0135ARY/RS/ARY/A/2015 DATED: 09/11/2015

SUB: Tamil Nadu Pollution Control Board -CONSENT TO OPERATE -DIRECT -M/s. ONGC LTD., NPAI DRILLSITE , S.F.No. 185/1A, 185/11, 185/10A, 185/18, 185/12B, 185/10B, 185/12A, 186/7, 185/4A, 185/15, 186/5, 186/3B, 186/8A, 186/8B, 185/17, 185/1B, 185/14B, 185/14A, 185/13, DEVAMANGALAM village Udayarpalayam 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 dated:16.09.2015.
2. FIR.No : F.0135ARY/R/S/AE/ARY/2015 dated 16/09/2015
3. Board's (CCC) Resolution No.186-18dated: 30.10.2015.

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. ONGC LTD., NPAI DRILLSITE
S.F No.185/1A, 185/11, 185/10A, 185/18, 185/12B, 185/10B, 185/12A, 186/7, 185/4A, 185/15, 186/5, 186/3B,
186/8A, 186/8B, 185/17, 185/1B, 185/14B, 185/14A, 185/13,
DEVAMANGALAM Village,
Udayarpalayam 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,
Tamil Nadu Pollution Control Board,
Chennai

12/11/15

To
Group General Manager (Drilling),
M/s.ONGC LTD., NPAI DRILLSITE,
Devamangalam Village, Udayarpalayam Taluk, Ariyalur District,
Pin: 612902

Copy to:

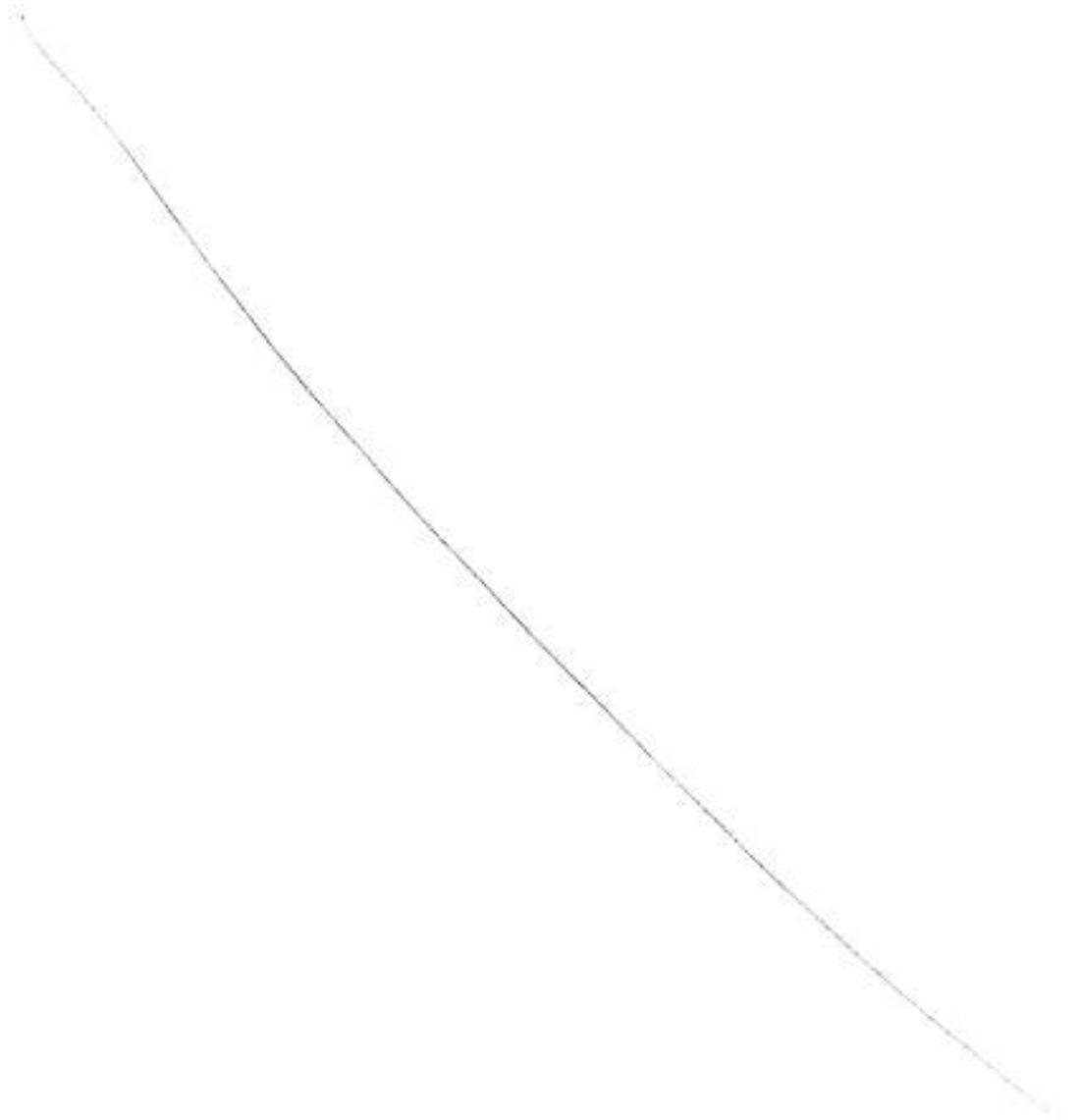
1. The Commissioner, JAYAMKONDAM-Panchayat Union, Udayarpalayam Taluk, Ariyalur District.
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, ARIYALUR.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Trichirappalli.
4. File

POLLUTION PREVENTION PAYS

சுற்றுச்சூழல் பாதுகாப்புக்காக மாசுபாட்டைத் தடுக்க கட்டணம் செலுத்தండి



TAMILNADU POLLUTION CONTROL BOARD



POLLUTION PREVENTION PAYS
அகம் தாய்மை வாய்மைக்கு! புறம் தாய்மை வாய்மைக்கு!



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 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 Nm ³ /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
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

அகலம் தூய்மை வாய்மைக்கு! புறம் தூய்மை வாழ்வுக்கு!



TAMILNADU POLLUTION CONTROL BOARD

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 (SO ₂)	Annual 24 hours	microgram/m ³ microgram/m ³	50 80	20 80
2.	Nitrogen Dioxide (NO ₂)	Annual 24 hours	microgram/m ³ microgram/m ³	40 80	30 80
3.	Particulate Matter (Size Less than 10 micro M) or PM ₁₀	Annual 24 hours	microgram/m ³ microgram/m ³	60 100	60 100
4.	Particulate Matter (Size Less than 2.5 micro M) or PM _{2.5}	Annual 24 hours	microgram/m ³ microgram/m ³	40 60	40 60
5.	Ozone (O ₃)	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/m ³ microgram/m ³	0.5 1.0	0.5 1.0
7.	Carbon Monoxide (CO)	8 Hours 1 Hour	milligram/m ³ milligram/m ³	02 04	02 04
8.	Ammonia (NH ₃)	Annual 24 hours	microgram/m ³ microgram/m ³	100 400	100 400
9.	Benzene (C ₆ H ₆)	Annual	microgram/m ³	5	5
10.	Benzo(O) Pyrene (BaP) -particulate phase only	Annual	nanogram/m ³	01	01
11.	Arsenic (As)	Annual	nanogram/m ³	06	06
12.	Nickel (Ni)	Annual	nanogram/m ³	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
Residential Area	55	45

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.

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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-11011/188/2013-1A- II(I) dated.04.09.2015 .
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.


Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

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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 Poramboke 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.

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

[Signature]
I Member Secretary
Tamilnadu Pollution Control Board,
Chennai

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