



ऑयल एण्ड नेचुरल गैस कोरपोरेशन लिमिटेड  
Oil and Natural Gas Corporation Limited

पूर्वी अपतट परिसंपत्ति

द्वितीय तल, साउथ ब्लॉक, सुभद्रा आर्केड, भानुगुडी जंक्शन, काकीनाड़ा – 533003

Eastern Offshore Asset

2<sup>nd</sup> Floor, South Block, Subhadra Arcade, Bhanugudi Junction, Kakinada – 533 003

Phone No: - 0884-2302205

Fax No: - 0884-2374104

ONGC/EOA/Surface/HSE/EC/S1VA/19/1

Date: 02.04.2019

To,

- ✓ 1. Additional Principal Chief Conservator of Forests (C),  
Ministry of Environment, Forest and Climate Change,  
Regional Office (SEZ), 1st and 2nd Floor,  
Handloom Export Promotion Council,  
34, Cathedral Garden Road, Nungambakkam,  
Chennai – 600034.  
Email: [ro.moefccc@gov.in](mailto:ro.moefccc@gov.in) , [roefcc@gmail.com](mailto:roefcc@gmail.com) .
2. Central Pollution Control Board  
A Block, Nisarga Bhavan, 1<sup>st</sup> and 2<sup>nd</sup> floors,  
7<sup>th</sup> D cross, Thimmaiah Road,  
Shivanagar, Bengaluru, Karnataka – 560079  
Email: [ssuresh.cpcb@nic.in](mailto:ssuresh.cpcb@nic.in) , [cpcbsuresh@gmail.com](mailto:cpcbsuresh@gmail.com)
3. The Environmental Engineer  
A.P. Pollution Control Board  
Regional Office, Kakinada  
Andhra Pradesh-533005.  
Email: [rokkd-ee1@appcb.gov.in](mailto:rokkd-ee1@appcb.gov.in)

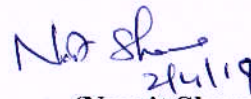
Sirs,

- Sub:** - Submission of Compliance for EC (Environmental clearance) of Vashishta and S1 of Eastern Offshore Asset, ONGC.
- Ref:** - EC for Vashishta and S1 of Eastern Offshore Asset, ONGC vide Order No. J-11011/591/2012-IA II (1) DATED 12.11.2015

With reference to above, we herewith submit six monthly compliance report for EC (Environmental Clearance) of Vashishta and S1 of Eastern Offshore Asset, ONGC for the period from 1<sup>st</sup> October 2018 to 31<sup>st</sup> March 2019.

With Regards,

For M/s. Oil & Natural Gas Corporation Ltd.,

  
(Namit Sharma)  
GGM (P), Surface Manager

**EC Compliance points according to Vashishta and S1 Project (ONGC) for the period 01<sup>st</sup> October 2018 to 31<sup>st</sup> March 2019.**

**\*Note :** No Drilling activities being carried out in Vashishta and S1 project.


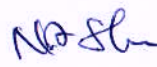
S. No.	Condition	Present status
<b>Specific Conditions</b>		
1.	Gas produced during testing shall be flared with appropriate flaring booms. Flare system shall be designed as per good oil field practices and Oil Industry Safety Directorate (OISD) guidelines. Stack height shall be provided as per the regulatory requirements and emissions from stacks will meet the MOEF/ CPCB guidelines	Flare system is designed as per OISD guidelines
2.	Only high Efficiency DG set with adequate stack height and modern emission control equipment and low sulphur clean diesel shall be used. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.	Complied
3	Total water requirement shall not exceed 85 m <sup>3</sup> /d (45 m <sup>3</sup> /d fresh water + 40 m <sup>3</sup> /d sea water) for offshore drilling and prior permission shall be obtained from the Competent Authority for the drawl of water. Only water based mud system shall be used	*Not applicable
4.	Produced water (65 m <sup>3</sup> /day) shall be treated in ETP. Treated produced water shall be disposed off through injection well as per CPCB/ MOEF guidelines	Complied
5.	Water based drilling mud shall be discharged to the sea after proper dilution as per E (P) Rules vide G. S. R. 546 (E) dated 30 <sup>th</sup> August, 2005.	*Not applicable
6.	The Company shall ensure that there shall be no impact on flora fauna due to drilling of wells in the offshore sea. The company shall undertake conservation measures to protect the marine animals/ biota in the region. The company shall monitor the petroleum hydrocarbons and heavy metals concentration in the marine fish species regularly and submit report to the ministry.	*Not applicable
7	Treated wastewater (Produced water or formation water) shall comply with the marine disposal standards notified under Environment (protection) Act 1986. Sewage treatment on board of the rig as per MARPOL regulation. Residual Chlorine shall not exceed 1 mg/l before disposal, Standards for injection produced water into confined hydrocarbon reservoir structure at more than 1000 m with oil in water content of less than 10 ppm shall be complied	Complied, report Attached in <b>Annexure I</b>
8	The drill cutting (DC) wash water shall be treated to conform to limits notified under the Environment (Protection) Act, 1986, before disposal into the sea. The treated effluent shall be monitored regularly	*Not applicable
9	All guidelines shall be followed for the disposal of solid waste, drill cuttings and drilling fluids for onshore and offshore drilling operation notified vide GSR. 546 (E) dated 30 <sup>th</sup> August, 2005. Different types of wastes shall be kept segregated.	*Not applicable
10	High efficiency equipment shall be used to separate solids, hydrocarbons and water such as shale shakers with improved capacity to filter smaller solids, low shear pumps for use in produced water shall be employed.	Complied
11	Good book keeping practices shall be put in place to manage wastes such as waste tracking program i.e. identify where and when the waste	Complied

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S. No.	Condition	Present status
	generated, the type of waste and its volume, the disposal method and its location, and the personnel responsible for the waste management.	
12.	A waste minimisation plan shall be developed and followed through proper inventory management following best practices in drilling operations, good housekeeping practices and optimised equipment maintenance schedules	*Not applicable
13.	Only essential rig personnel shall be on board the rig. Emergency Response Plan and Health, Safety and Environment (HSE) system shall be installed. Geo hazard and geotechnical studies shall be carried out to ensure safe drilling operations	*Not applicable
14.	All the hazardous waste generated at the rig/ offshore facility shall be properly treated, transported to onshore and disposed of in accordance with the Hazardous waste (Management, Handling and Transboundary Movement) Rules 2008. No waste oil shall be disposed off into the sea. Waste/ used oil shall be brought onshore and sold to MOEF/ CPCB authorized recyclers/ re-processors only.	*Not applicable
15.	Requisite infrastructure facilities shall be provided near the offshore installations so that booms and skimmers/ chemical dispersants could be deployed immediately in case of oil leakage from the installations. Effort shall be made to curtail the oil slick within 500 meters of the installation and accordingly, action plan and facilities to check the oil slick within 500 meters shall be provided	Complied
16.	Approval of DG shipping under the Merchant Shipping Act prior to commencement of the drilling operations shall be obtained. At least 30 days prior to the commencement of drilling, the exact location shall be intimated to the Director General of shipping and the company shall abide by any direction he may issue regarding ensuring the safety of navigation in the area	Shall be Complied
17.	The international 'Good Practices' adopted by the Petroleum Industry viz international norms to safeguard the coastal and marine biodiversity shall be implemented by the company	Complied
18.	The company shall take necessary measures to reduce the noise levels such as proper casing at the drill site and meet DG set norms notified by the MOEF. Height of all the stacks/ vents shall be provided as per the CPCB guidelines	Complied
19.	The design, material of construction, assembly, inspection, testing and safety aspects of operation and maintenance of pipeline and transporting the natural gas/ oil shall be governed by ASME/ ANSI B 31.8/ B 31.4 and OISD standard 141.	Being Complied
20.	The project proponent shall also comply with the environmental protection measures and safeguards recommended in the EIA/ EMP/ RA/ NIO report	Being complied
21.	Full drawings and details of Blow out preventer to encounter well kick due to high formation presence, if encountered, shall be submitted to the Ministry's Regional office within 3 months of the issue of environment clearance.	*Not applicable.
22.	On completion of activities, the well shall be either plugged and suspended (if the well evaluation indicates commercial quantities of hydrocarbon) or killed and permanently abandoned with mechanical	Shall be complied

*Signature* *Not Sh*

S. No.	Condition	Present status
	plugs and well cap. If well is suspended, it shall be filled with a brine solution containing small quantities of inhibitors to protect the well. The position at the end of the activities shall be communicated in detail to the ministry indicating the steps taken i.e. whether all the wells are plugged or abandoned and necessary precautions taken.	
23	A brief report on environmental status and safety related information generated and measures taken as well as frequency of such reporting to the higher authority shall be submitted to this Ministry and its respective Regional office at Bangalore	Safety related information with audit compliance and accident report is being submitted to Asset Manager every month. Half yearly compliance report shall be submitted to regional office.
24	Petroleum and Natural Gas (Safety in offshore operations) Rules 2008 of OISD shall be strictly adhered to	Being complied
25	Recommendations mentioned in the risk assessment & consequence analysis and disaster management plan shall be followed	Being complied
26	Adequate funds both recurring and nonrecurring shall be earmarked to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes	Being complied
27	Concrete plan of action for Enterprise Social Responsibility consisting 5% of project cost shall be prepared in consultation with the District Authority and the local people and a mechanism for it monitoring should be worked out. Action plan shall be submitted to MOEF's RO office for monitoring	Being complied
28	All commitment made during Public Consultation held on 3 <sup>rd</sup> December, 2013 should be complied with.	Being Complied
29	On completion of drilling, the company has to plug the drilled wells safely and obtain certificate from environment safety angle from the concerned authority	Shall be complied
<b>Specific conditions in respect of CRZ</b>		
1.	Keeping in view the CRZ notification, 2011 which prohibits foreshore facilities in high eroding sites, the project shall not have any foreshore activity except laying of pipeline	Complied. No foreshore activities
2.	The pipeline routes shall be demarcated with floating buoys as indicators	Complied
3.	All the recommendations and conditions specified by Gujarat Coastal Zone Management Authority (GCZMA) vide letter no. 6555/ENV/CZMA/2013 dated 25.11.2013 shall be complied with	All the recommendations and conditions specified in AP coastal Zone management shall be complied
4.	Construction activity shall be carried out strictly according to the provisions of CRZ Notification, 2011. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area	Being complied

S. No.	Condition	Present status
<b>General Conditions</b>		
1.	The project authorities must strictly adhere to the stipulations made by the Andhra Pradesh Pollution Control Board (APPCB), State Government and any other statutory authority	Complied
2.	No further expansion or modifications in the plant 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.	Noted In case of deviations or alterations in the project proposal a fresh reference shall be made to the Ministry
3.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No. 826 (E) dated 16 <sup>th</sup> November, 2009 shall be followed.	Complied
4.	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Being complied Ambient air quality is being monitored on half yearly basis. Reports are attached as <b>Annexure-II</b>
5.	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 Environment (Protection) Act, 1986 Rules, 1989 viz 75 dBA (day time) and 70 dBA (night time)	Being complied. Noise levels are being monitored on half yearly basis. Reports are attached as <b>Annexure-III</b>
6.	The Company shall harvest the rainwater from the roof tops of the buildings and storm water drains to recharge ground water and use the same for the process activities of the project to conserve the fresh water	Being complied
7.	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre – employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted	Being complied
8.	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/ EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented	Being complied.
9.	The company shall undertake all relevant measures for improving the socio – economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration	Being complied
10.	The company shall undertake eco – developmental measures including community welfare measures in the project area for overall improvement of the environment	Being complied
11.	A separate Environment Management cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring Functions	Being complied
12.	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the	Noted

*Signature*

S. No.	Condition	Present status
	Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose	Shall be complied
13.	A copy of the clearance letter shall be sent by project proponent to concerned <u>panchayat, Zila Parisad/ Municipal corporation, Urban local body and the local NGO</u> , if any, from whom suggestions/ representations, if any, were received while processing the proposal	Complied
14.	The project proponent shall also submit Six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as e-mail) to the respective <u>Regional Office of MoEF, the respective Zonal Office of CPCB and APPCB</u> . A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of company.	Being complied
15.	The environmental Statement for each financial year ending 31 <sup>st</sup> March in Form – V as is mandated shall be submitted to the concerned <u>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 clearance conditions and shall also be sent to the respective Regional Offices of MOEF by email</u>	Shall be complied
16.	The project proponent shall inform the public that the project has been accorded environment clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <u>www.moef.nic.in</u> . 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 concerned Regional office of the Ministry.	Complied
17.	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 start of the project	Shall be complied

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Corporate Office : Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam-530012  
& Laboratory www.svenvirolabs.com, Ph:0891-2755528, Cell: +91 9440338628  
info@svenvirolabs.com, svenviro\_labs@yahoo.co.in

Branch Office : 2-53, Mahipala Street, Yanam - 533464.

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Ref: SVELC/ONGC-ODL/18-12/009

Date: 24-12-2018

NAME AND ADDRESS

M/s. OIL AND NATURAL GAS CORPORATION LIMITED,  
EASTERN OFFSHORE ASSET,  
Odalarevu village, Allavaram Mandal, Amalapuram Division,  
EAST GODAVARI DISTRICT.

SAMPLE PARTICULARS

WASTE WATER

SOURCE OF COLLECTION

ETP OUTLET

DATE OF COLLECTION

14-12-2018

TIME OF COLLECTION

16.45 hr

## TEST REPORT

S. No.	Parameter	Unit	ETP OUTLET
1.	Colour	Hazen	3.1
2.	pH	--	5.39
3.	Temperature	°C	28.0
4.	Total Dissolved Solids	mg/l	19358
5.	Total Suspended Solids	mg/l	59.0
6.	Chlorides as Cl <sup>-</sup>	mg/l	10689
7.	Fluorides as F <sup>-</sup>	mg/l	0.86
8.	Sulphates as SO <sub>4</sub> <sup>2-</sup>	mg/l	2818
9.	COD	mg/l	328
10.	BOD 3d 27°C	mg/l	128
11.	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	mg/l	0.18
12.	Copper as Cu	mg/l	0.09
13.	Mercury as Hg	mg/l	BDL
14.	Lead as Pb	mg/l	BDL
15.	Zinc as Zn	mg/l	0.46
16.	Chromium as Cr <sup>6+</sup>	mg/l	BDL
17.	Total Chromium	mg/l	0.11
18.	Nickel as Ni	mg/l	BDL
19.	Cyanide as CN	mg/l	BDL
20.	Ammonical Nitrogen	mg/l	7.4
21.	Sulphide	mg/l	0.86
22.	Oil & Grease	mg/l	8.6

Note :- NS denotes Not Specified.

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Ref: SVELC/ONGC-ODL/18-12/001

Date: 24-12-2018

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LIMITED,  
EASTERN OFFSHORE ASSET,  
Odalarevu village, Allavaram Mandal, Amalapuram Division,  
EAST GODAVARI DISTRICT.

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR MAIN SECURITY OFFICE

DATE & TIME OF START : 14-12-2018@10.05 hr

DURATION OF SAMPLING : 24 Hours

ATMOSPHERE CONDITION : Clear Sky

## TEST REPORT

S.No	PARAMETER	UNIT	RESULT	STANDARDS	METHOD
1.	Particulate Matter(Size<10 $\mu$ ) or PM <sub>10</sub>	$\mu\text{g}/\text{m}^3$	64.5	100	IS:5182 (P-23) Gravimetric
2.	Particulate Matter(Size<2.5 $\mu$ ) or PM <sub>2.5</sub>	$\mu\text{g}/\text{m}^3$	26.8	60	40 CFR USEPA Gravimetric
3.	Sulphur Dioxide - SO <sub>2</sub>	$\mu\text{g}/\text{m}^3$	13.6	80	IS:5182 (P-2)- West and Gaeke Method
4.	Oxides of Nitrogen - NO <sub>x</sub>	$\mu\text{g}/\text{m}^3$	16.2	80	IS:5182(P-6) - Jacob & Hochheiser Method

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ANALYSED BY



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Ref: SVELC/ONGC-ODL/18-12/002

Date: 24-12-2018

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LIMITED,  
EASTERN OFFSHORE ASSET,  
Odalarevu village, Allavaram Mandal, Amalapuram Division,  
EAST GODAVARI DISTRICT.

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR ODALAREVU VILLAGE

DATE & TIME OF START : 14-12-2018@ 10.35 hr

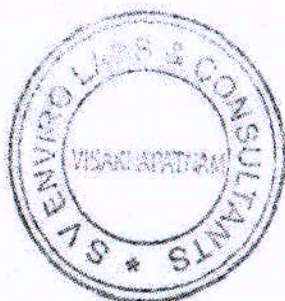
DURATION OF SAMPLING : 24 Hours

ATMOSPHERE CONDITION : Clear Sky

## TEST REPORT

S.No	PARAMETER	UNIT	RESULT	STANDARDS	METHOD
1.	Particulate Matter(Size<10 $\mu$ ) or PM <sub>10</sub>	$\mu\text{g}/\text{m}^3$	53.5	100	IS:5182 (P-23) Gravimetric
2.	Particulate Matter(Size<2.5 $\mu$ ) or PM <sub>2.5</sub>	$\mu\text{g}/\text{m}^3$	22.4	60	40 CFR USEPA Gravimetric
3.	Sulphur Dioxide – SO <sub>2</sub>	$\mu\text{g}/\text{m}^3$	11.2	80	IS:5182 (P-2)- West and Gaeke Method
4.	Oxides of Nitrogen - NO <sub>x</sub>	$\mu\text{g}/\text{m}^3$	13.1	80	IS:5182(P-6) - Jacob & Hochheiser Method

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ANALYSED BY



SV ENVIRO LABS & CONSULTANTS

Jim Nash



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info@svenvirolabs.com, svenviro\_labs@yahoo.co.in

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Ref: SVELC/ONGC-ODL/18-12/003

Date: 24-12-2018

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LIMITED,  
EASTERN OFFSHORE ASSET,  
Odalarevu village, Allavaram Mandal, Amalapuram Division,  
EAST GODAVARI DISTRICT.

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR FIRE WATER HOUSE

DATE & TIME OF START : 14-12-2018@ 11.05 hr

DURATION OF SAMPLING : 24 Hours

ATMOSPHERE CONDITION : Clear Sky

## TEST REPORT

S.No	PARAMETER	UNIT	RESULT	STANDARDS	METHOD
1.	Particulate Matter(Size<10 $\mu$ ) or PM <sub>10</sub>	$\mu\text{g}/\text{m}^3$	66.9	100	IS:5182 (P-23) Gravimetric
2.	Particulate Matter(Size<2.5 $\mu$ ) or PM <sub>2.5</sub>	$\mu\text{g}/\text{m}^3$	26.6	60	40 CFR USEPA Gravimetric
3.	Sulphur Dioxide - SO <sub>2</sub>	$\mu\text{g}/\text{m}^3$	15.2	80	IS:5182 (P-2)- West and Gaeke Method
4.	Oxides of Nitrogen - NO <sub>x</sub>	$\mu\text{g}/\text{m}^3$	16.5	80	IS:5182(P-6) - Jacob & Hochheiser Method

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SV ENVIRO LABS & CONSULTANTS

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Ref: SVELC/ONGC-ODL/18-12/004

Date: 24-12-2018

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LIMITED,  
EASTERN OFFSHORE ASSET,  
Odalarevu village, Allavaram Mandal, Amalapuram Division,  
EAST GODAVARI DISTRICT.

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR DG ROOM

DATE & TIME OF START : 14-12-2018@11.40 hr

DURATION OF SAMPLING : 24 Hours

ATMOSPHERE CONDITION : Clear Sky

## TEST REPORT

S.No	PARAMETER	UNIT	RESULT	STANDARDS	METHOD
1.	Particulate Matter(Size<10 $\mu$ ) or PM <sub>10</sub>	$\mu\text{g}/\text{m}^3$	62.8	100	IS:5182 (P-23) Gravimetric
2.	Particulate Matter(Size<2.5 $\mu$ ) or PM <sub>2.5</sub>	$\mu\text{g}/\text{m}^3$	26.9	60	40 CFR USEPA Gravimetric
3.	Sulphur Dioxide - SO <sub>2</sub>	$\mu\text{g}/\text{m}^3$	16.1	80	IS:5182 (P-2) - West and Gaeke Method
4.	Oxides of Nitrogen - NO <sub>x</sub>	$\mu\text{g}/\text{m}^3$	17.3	80	IS:5182(P-6) - Jacob & Hochheiser Method

Y. J. K.   
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Ref: SVELC/ONGC-ODL/18-12/010

Date: 24-12-2018

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LIMITED,  
EASTERN OFFSHORE ASSET,  
Odalarevu village, Allavaram Mandal, Amalapuram Division,  
EAST GODAVARI DISTRICT.

SAMPLE PARTICULARS : NOISE LEVEL INTENSITY

DATE OF COLLECTION : 14-12-2018

## TEST REPORT

S.No.	SOURCE OF COLLECTION	Noise levels measured in dB(A)		Method
		DAY	NIGHT	
1.	DG set area	72.8	68.2	IS:4954 – 1968 Noise Level Meter
2.	Crude oil pump area	72.6	68.6	
3.	Methanol injection area	70.6	67.5	
4.	Fire water pump area	71.2	67.8	
5.	OWS pump area	68.4	65.8	
6.	Near security office	64.1	60.8	
7.	Near administrative building	56.6	50.8	
8.	Near heater treater	66.2	58.1	
9.	Goma pump area	70.6	68.8	
STANDARDS		75.0	70.0	

SV ENVIRO LABS & CONSULTANTS



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