



Date: 17.05.2018

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Director(S)
Regional Office (South Eastern Zone)
Ministry of Environment, Forest & Climate Change (MoEF&CC)
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Sub: 11TH SIX MONTHLY COMPLIANCE REPORT (01.10.2017 TO 31.03.2018) ALONG WITH THE STATUS OF ENVIRONMENTAL CLEARANCE OBTAINED LOCATIONS.

M/s Oil India Ltd, KG Basin Project, Kakinada, Andhra Pradesh already obtained Environmental Clearances for 30 locations dated 11.07.2012, 24.01.2014 & 27.11.2017 for exploratory drilling in NELP Block KG-ONN-2004/1 in East Godavari District of Andhra Pradesh. As per the Directorate General of Hydrocarbons(DGH) revised Minimum Work Programme (MWP), M/s Oil India Ltd needs to drill 8 wells during the exploration period of Phase-I.

The details of progress are as follows:

1. The 1st exploratory drilling well Dangeru-1 was drilled down to 3719m and discovered gas. The well was temporarily abandoned due to fish in hole occurred during production testing and drilled appraisal well in same plinth. The site covering an area of about 7 to 8 acres was acquired on lease basis from Land owner through the District Authorities.
2. The 2nd exploratory drilling well Balusuthippa - 1 was drilled down to 3278m. The well was permanently abandoned after putting the cement plugs due to poor hydrocarbon prospects. The site covering an area about 7 to 8 acres was acquired on lease basis from Land owner through the District Authorities.
3. The 3rd exploratory (1st HPHT well) drilling well TLK - 1 (Thanelanka Village) was drilled down to 5202m and under production testing since 03.3.2018. This site land of about 7 to 8 acres was purchased by Oil India Ltd through District Authorities.



4. The 4th exploratory Drilling well GLK#1(Gadi Lanka Village) was spudded on 08.10.2016 and drilled down to 2716m against the target depth of 2700m. The well was permanently abandoned after putting the cement plugs due to poor hydrocarbon prospects.
5. The 5th exploratory (2nd HPHT well) drilling well YLK#1(Yeduru Lanka village) was spudded on 04.12.2016 and drilled down to 4781.5m and encountered early Basement against the target depth of 5300m. Some Hydrocarbon prospects have been identified while drilling and from logging evidence. Awaiting for Production testing. The site covering an area of 10 acres was acquired on lease basis from Land owner through District Administration.
6. The 6th drilling well DNG A#1(Dangeru village) (appraisal well for DNG#1) was spudded on 07.03.2017 and drilled down to 3847m. Completed production testing and discovered gas reserves. After production testing the well was permanently abandoned after putting the cement plugs. The site covering an area of about 7 to 8 acres was acquired on lease basis from Land owner through District Administration.
7. The 6th exploratory (3rd HPHT well) drilling well GDK#1(Gede Lanka village) was spudded on 22.10.2017. Drilled down to 4756m and Encountered early Basement against the target depth of 5000m. Some Hydrocarbon prospects have been identified while drilling and from logging evidence. The well was temporarily abandoned after putting the cement plugs and awaiting for production testing. The site covering an area of 10 acres was acquired on lease basis from Land owner through District Administration.
8. The 7th exploratory drilling well PKR#1(Pekeru village) was spudded on 04.12.2017 and drilled down to 2467m and encountered early Basement against the target depth of 2850m. The well was permanently abandoned after putting the cement plugs due to poor hydrocarbon prospects. The site covering an area about 7 to 8 acres was acquired on lease basis from Land owner through the District Authorities.
9. The 8th exploratory drilling well BPN#1(Bapana Palli village) was spudded on 12.03.2018 and is presently under drilling stage(drilled down to 959m as on 31.3.2018 against the target depth of 2800m). The site covering an area about 10 acres was acquired on lease basis from Land owner through the District Authorities.



ऑयल इंडिया लिमिटेड

(भारत सरकार का उद्योग) पंजीकृत कार्यालय: दुलियाजान, आसाम

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The 11th six monthly Environmental Compliance report for the period from 01.10.2017 to 31.3.2018 is being submitted with all the supported documents.

(Swadesh Dey)
ED-(KGB&BEP)

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- ii) Regional APPCB, Kakinada, Andhra Pradesh

11TH SIX MONTHLY ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT

Basin: KG Basin Project
Block: KG/ONN/2004/1

Period: 01.10.2017 to 31.3.2018
Well names: GDK#1, PKR#1 and BPN#1

EC No: J-11011/618/2010-1A II (1) Dated 11.07.2012 & 24.1.2014

EC No: J-11011/191/2016-1A II(I)dated 27.11.2017.

S.NO	SPECIFIC CONDITION	STATUS OF COMPLIANCE
A -		
i	No well shall be drilled in forest land and mangrove forest without prior approval. No additional wells shall be drilled without prior permission from this Ministry.	Fully complied to identified drilling prospects do not fall in Forest land & Mangrove forest.
ii	All the specific conditions and general conditions specified in the CRZ clearance letters accorded vide Ministry's letter no. 11-47/2011-ia.iii dated 3 rd May, 2012 shall be implemented	The project does not attract the provisions of CRZ Notification, 2011.
iii	Prior clearance shall be from the Standing Committee of the National Board for Wildlife regarding Coringa wildlife sanctuary as applicable.	Since no drillable prospects have been identified for drilling, necessary clearance shall not require from Standing Committee of the National Board for Wildlife regarding Coringa wildlife sanctuary.
iv	Permission shall be obtained from the state Forest Department regarding the impact of the proposed drilling on the surrounding reserve forest viz. 9 reserve forests namely Corangi, Coringa reserve forest or Coringa Wildlife sanctuary, Coringa Extn RF, Bhyravapalem RF, Rathikalava RF, Masanitippa RF, Matlapalem RF, Balusutippa RF, Kothapalem I RF, Kothapalem II RF and Kandikuppa RF.	Since no location is falling under Reserve Forest, clearance from state Forest Dept. is not required.
v	Gas produced during testing shall be flared with appropriate flaring booms. The 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.	Complied. Provision of flaring in drilling location is in place as per OISD, MOEF&CC&CPCB guidelines.
vi	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 PM10, PM2.5, SO2, NOx, CO, CH4, HC, Non-methane HC etc.	Ambient air quality of the nearest village monitored as per NAAQ emission standards. Test reports enclosed as Annexure-1
vii	Mercury shall also be analyzed in air, water and drill cuttings twice during drilling period.	Being complied. Test reports enclosed as Annexure-2
viii	Approach road shall be made pucca to minimize generation of suspended dust.	Complied.
ix	The company shall make the arrangement for	DG sets are housed on the deck with acoustic

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	control of noise from the drilling activity. Acoustic enclosure shall be provided to DG sets and proper stack height shall be provided as per CPCB guidelines.	enclosures. DG sets have adequate stack heights as per norms. People working near the sets are provided with ear muffs.
x	Total water requirement shall not exceed 25 m ³ /day and prior permission shall be obtained from the concerned agency.	Being complied and fresh water requirement is being met by bore wells and tanker supply.
xi	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 effluents. Effluent shall be properly treated and treated wastewater shall conform to CPCB standards.	Constructed the garland drains all around the drilling site. Effluent water is being reused/re-cycled after treatment with Mobile ETP with RO system.
xii	Good sanitation facility shall be provided at the drilling site. Domestic sewage shall be disposed of through septic tank / soak pit.	Being complied.
xiii	Drilling wastewater including drill cuttings wash water shall be collected in disposal pit lined with HDPE lining evaporated or treated and shall comply with the notified standards for on-shore disposal. The membership of common TSDF shall be obtained for the disposal of drill cuttings and hazardous waste. Otherwise, secured landfill 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 Bangalore.	Drilling waste water and drill cuttings wash water are collected in HDPE lined waste pit and left for solar evaporation. Effluent water is being reused/re-cycled after treatment with mobile ETP with RO system.
xiv	Oil spillage prevention and mitigation 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 authorized recyclers.	In case of any oil spillage/contamination, proven bio-remediation method will be adopted for clean-up of area. Spent oil will be disposed through the authorized recyclers.
Xv	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.	Compliance details are given in the GSR 546(E) compliance table below.
xvi	The Company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. Possibility of using ground flare shall be explored. At the place of ground flaring, the overhead flaring stack with	First aid, Firefighting equipment provided as per OISD-189. Flaring is done through flare stack during testing for a brief period of 1-2 days.

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	knockout drums shall be installed to minimize gaseous emissions during operation.	
xvii	The company shall develop a contingency plan for H2S release including all necessary aspects from evacuation to resumption of normal operations. The workers shall be provided with personal H2s detectors in location of high risk of exposure along with self-containing breathing apparatus.	Complied. OIL have own Emergency Response Plan (ERP) and Contingency plan for H2S which is a part of ERP. H2s gas detectors are provided for monitoring.
Xviii	The company shall carry out long term subsidence study by collecting base line data before initiating drilling operation till the project lasts. The data so collected shall be submitted six monthly to the Ministry and its Regional Office at Bangalore.	Complied. OIL carried out Baseline study during EIA study.
xix	Blow Out Preventer (BOP) system shall be installed to prevent well blowouts during drilling operations. BOP measures during drilling shall focus on maintaining well bore hydrostatic pressure by proper pre-well planning and drilling fluid logging etc.	BOP's are installed. BOP test is carried out every 21 days.
Xx	Emergency Response Plan (ERP) shall be based on the guidelines prepared by OISD, DGMS and Govt. of India.	OIL ERP is in accordance with the guidelines of OISD, DGMS and Govt. of India
xxi	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 the area in original condition. In the event that no economic quantity of hydrocarbon is found a full abandonment plan shall be implemented for the drilling site in accordance with the applicable Indian Petroleum Regulations. Remote monitoring of site shall be done.	Dry wells are abandoned with plugs as per OMR-2016. Process of restoration of the well site is on.
xxii	Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules.	Periodic Medical Examination (PME) is done as per norms in authorized hospitals.
Xxiii	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.	Presently OIL's KG Basin Project is in exploratory drilling phase only. In case commercial viability is established, company will prepare and develop plan and apply for fresh Environmental clearance from MOEF&CC.
xxiv	Restoration of the project site shall be carried	Process of restoration of the well site is in

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	out satisfactorily and report shall be sent to the Ministry's Regional Office at Bangalore.	progress.
Xxv	Oil content in the drill cuttings shall be monitored by some Authorized agency and report shall be sent to the Ministry's Regional Office at Bangalore.	Only Water Base Mud is being used.
xxvi	All the issues raised and commitment made during the public hearing / consultation meeting held for east Godavari District on 19th January, 2011 shall be satisfactorily implemented. Accordingly, a budget to be kept for implementation.	Complied. Implementing the commitments given during public hearing through District Administration of East Godavari, Andhra Pradesh. We kept budget provision for CSR activities.
xxvii	Under Corporate Social Responsibility (CSR), sufficient budgetary provision shall be made for health improvement, education, water and electricity supply etc. in and around the project.	Complied. Kept budget provision for CSR activities. Till now OIL spent an amount of Rs 6,34,85,810.0 in KG Basin Project.
Xxviii	Company shall have own Environment Management Cell having qualified persons with proper background.	Environment Management Cell is functional in KG Basin project, Kakinada to carryout HSE functions.
xxix	Company shall adopt Corporate Environment Policy as per the Ministry's O.M. No. J-11013/41/206-IA.II (I) dated 26th April, 2011 and implemented.	Complied. OIL has Corporate Environment Policy.
xxx	Company should ensure good housekeeping at the drilling site.	Being Complied.
Xxxi	Company should prepare project specific environmental manual and a copy should be made available at the drilling site for the compliance	Environment manual for this Project is being prepared centrally at Field head Quarters and shortly in place at drilling sites.
xxxii	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.	MoEF&CC approved EIA reports are available. Environmental protection measures suggested in the report are being adhered.
B	GENERAL CONDITONS :	
i	The project authorities must strictly adhere to the stipulations made by the A.P Pollution Control Board (APPCB), State Government and	The observations raised by the statutory authorities like APPCB, DGMS, OISD are compiled as and when raised.

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	any other statutory authority.	
ii	No further expansion or modification in the project shall be carried out without prior approval of the Ministry of Environment & 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.	Drilling activities are conducted as per the approval received from MoEF&CC.
iii	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.	Drilling operations are carried out as per DGMS OMR-2016 and OISD standards. Handling of explosives approval is obtained from Chief Controller of Explosives.
iv	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 dBA (daytime) and 70 dBA (nighttime)	Acoustic enclosures are provided for the DG sets to minimize the noise levels within specified limits. Ear muffs provided for the persons working near the gen sets. The ambient noise levels are being monitored regularly. Test reports enclosed as Annexure-3
v	A separate Environmental Management Cell equipped with full-fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.	Environmental Management Cell is in place at KG Basin project, Kakinada.
vi	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parshad / Municipal Corporation, 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	Being complied.
vii	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 the MOEF, the respective Zonal Office of CPCB, APPCB and Puducherry Pollution Control	Complied. Submitting six monthly compliance reports to MOEF, CPCB & APPCB. EC compliance reports and monitored data are uploading in our website www.oil-india.com . Ambient air quality and stack emissions data are displayed near the main gate of well site.

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	Committee. The criteria pollutant levels namely, PM 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.	
viii	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 APPCB. The Regional Office of his Ministry/CPCB/APPCB shall monitor the stipulated conditions.	Complied. Submitting six monthly compliance report to MOEF, CPCB & APPCB.
ix	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 the MOEF by e-mail.	Environment Statement in form –V was submitted to APPCB on 15.5.2018 and uploaded in Oil India Limited website www.Oil- india.com. Submitted Environmental statement to RO, MOEF&CC along with six monthly EC compliance report. Environmental statement enclosed as Annexure-4
x	The Project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the APPCB and may also be seen at website of the Ministry of Environment and Forest 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.	Company policy and other relevant information being displayed in front of each locations. Details of the environmental clearance are published in the local newspapers.
xi	Project authorities shall inform the Regional Office as well as 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.	All the project details are provided to the statutory authorities.

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xii	The Ministry may revoke or suspended the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed
xiii	The Ministry reserve the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implemented these conditions.	Agreed
xiv	The above conditions shall be enforced, inter-alia under the provisions of the Water(Prevention & Control of Pollution) Act,1974, the Air(Prevention & Control of Pollution)Act,1981, the Environment(Protection) Act,1986, Hazardous waste(Management, Handling and Trans-boundary Movement) Rules,2008 and the public(Insurance) Liability Act,1991 along with their amendments and rules.	Agreed

GSR 546(E) dt. 30th August, 2005. Disposal of Drill Cuttings and Drilling Fluids for On-shore Installations:

a	Drill Cuttings (DC) originating from on-shore or locations close to shore line and separated from Water Base Mud (WBM) should be properly washed and unusable drilling fluids (DF) such as WBM, Oil Base Mud (OBM), Synthetic Base Mud (SBM) should be disposed off in a well designed pit lined with impervious liner located off-site or on-site. The disposal pit should be provided additionally with leachate collection system Design aspects of the impervious waste disposal pit; capping of disposal pit should be informed by the oil industry to State Pollution Control Board (SPCB) at the time of obtaining consent.	WBM being used. Mud is recycled and reused. Cuttings and un used mud is washed and collected in impervious HDPE lined pit in the drill site designed as per specifications.
b	Use of diesel base mud is prohibited. Only WBM should be used for on-shore oil drilling operations.	Only water based mud is used.
c	In case of any problem due to geological formation for drilling, low toxicity OBM having aromatic content< 1% should be used. If the operators intend to use such OBM to mitigate specific whole problem/ SBM it should be intimated to Ministry of Environment and Forests/State Pollution Control Board.	Only Water base Mud will be used.

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d	(d) The chemical additives used for the preparation of DF should have low toxicity i.e. 96 hr LC50 > 30,000 mg/l as per mysid toxicity or toxicity test conducted on locally available sensitive sea species. The chemicals used (mainly organic constituents) should be biodegradable.	All additives used in the mud are having 96 hrs. LC50 value > 30000 mg/l. Test reports enclosed as Annexure-5.
e	DC separated from OBM after washing should have oil content at < 10 gm/kg for disposal into disposal pit.	Only Water Base Mud is being used.
f	The waste pit after it is filled up shall be covered with impervious liner, over which, a thick layer of native soil with proper top slope is provided.	After evaporation waste pit is covered with thick layer of native soil.
g	Low toxicity OBM should be made available at installation during drilling operation.	Only Water Base Mud will be used.
h	Drilling wastewater including DC wash water should be collected in the disposal pit evaporated or treated and should comply with the notified standards for on-shore disposal.	Being complied.
i	Barite used in preparation of DF shall not contain Hg > 1 mg/kg & Cd > 3mg/kg.	Barite used in preparation of DF contain Hg < 3 mg/kg. Test reports enclosed as Annexure-6
j	Total material acquired for preparation of drill site must be restored after completion of drilling operation leaving no waste material at site. SPCB should be informed about the restoration work.	After completion of drilling all the material is removed from the site and site is restored back.
k	In case, environmentally acceptable methods for disposal of drill waste such as (a) injection to a formation through casing annulars, if conditions allow (b) land farming at suitable location (c) bio-remediation (d) incineration or (e) solidification can be considered, in such cases oil industry is required to submit proposal to Ministry of Environment and Forests/State Pollution Control Board (MoEF/SPCB) for approval.	Noted for compliance.

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List of Annexures:

Annexure-1	Ambient Air quality data
Annexure-2	Mercury content in Water and drill cuttings report
Annexure-3	Noise level monitoring report
Annexure-4	Environmental statement
Annexure-5	Toxicity of Drilling fluid report
Annexure-6	Barite testing for Mercury & Cadmium report



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