

JTI/EC-2013 Compliance/2016-17/378

28<sup>th</sup> January, 2017

To,  
The Director,  
Ministry of Environment & Forest,  
Regional Office-Western Region,  
Kendriya Paryavaran Bhavan,  
Link Road no.: 03, Ravishankar Nagar,  
Bhopal- 462016, Madhya Pradesh.

**Sub: EC compliance report.****Ref: EC no: J-11011/581/2011-IA II (I) Dated: 27/5/2013****Respected Sir,**

This has reference to the Environmental Clearance(EC) granted by MoEF, New Delhi vide above mentioned letter. The compliance report for the period April-2016 to December-2016 (half yearly) in respect of **Drilling of Nine wells** is being sent herewith for your kind information and records. The same will be uploaded on JTI website ([www.jtiindiaprojects.com](http://www.jtiindiaprojects.com)) shortly.

Thanking you,

Yours faithfully,

*P. K. Kulkarni***P. K. KULKARNI**  
MANAGING DIRECTOR

JOSHI TECHNOLOGIES INTERNATIONAL INC. INDIA PROJECTS

P.K.Kulkarni  
Managing Director  
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**Copy to:** 1. Shri B.R.Naidu  
Scientist "D" & Incharge -, Zonal Office-CPCB  
Parivesh Bhawan  
Opp. VMC Ward Office No. 10, Subhanpura  
Vadodara-390 023

**Copy also to:** 1. The Chairman,  
Gujarat Pollution Control Board,  
Paryavaran Bhavan,  
Sector -10A,  
Gandhinagar.

2. The Regional Officer,  
GPCB-Nadiad  
201-203,"B" Block,  
Sardar Patel Bhavan,  
Nadiad.

Encl: As above

**COMPLIANCE REPORT for EC No: J-11011/581/2011-IA II(I) Dated: 27/5/2013**

**(Period April 2016 to December 2016)**

<b>EC conditions</b>	<b>Result</b>
<b>A. Specific Conditions</b>	
I. Compliance to all the specific conditions mentioned in the existing EC letter no <b>J-11011/920/2007-IA.II(I) dated 15.7.2007</b> shall be ensured. As proposed the company shall upload the copy of the EC, compliance report on their website.	<b>Project was completed as per EC granted during the year 2007-08.</b> All the conditions were fulfilled and copy of the EC, compliance report is uploaded on our website <a href="http://www.jtiindiaprojects.com">www.jtiindiaprojects.com</a>
II. Gas produced during testing shall be flared with appropriate flaring booms. The system shall be designed as per good oil field practices and OISD guidelines. The stack height shall be provided as per the regulatory requirements and emission from the stacks will meet the MoEF/CPCB guidelines.	Out of 20 wells, 9 wells drilled under EC, dated 27/5/2013. The wells are connected to GGS through flow line. As such the wells were tested at GGS only, there was no flaring of gas at the well site.
III. Ambient air quality shall be maintained at nearest human settlements as per national ambient Air Quality Standards issued by the Ministry vide G.S.R. No 826(E) dated 16 <sup>th</sup> November, 2009 for PM 2.5, SO <sub>2</sub> , NO <sub>x</sub> , CO, CH <sub>4</sub> , Non-methane HC etc.	Complied.
IV. Mercury shall also be analyzed in air, water and drill cuttings twice during drilling period.	Complied.
V. Approach road shall be made pucca to minimize generation of suspended dust.	Complied.
VI. The company shall make the arrangement for control of noise from drilling activity. Acoustic enclosure shall be provided to DG sets and proper stack height shall be provided as per CPCB guidelines.	Complied.

<p>VII. Total water requirement from ground water source shall not exceed 20m<sup>3</sup>/day/well and prior permission should be obtained from Competent Authority.</p>	<p>The water requirement was within limits.</p>
<p>VIII. 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 w/w shall conform to CPCB standards.</p>	<p>Complied.</p>
<p>IX. Drilling w/w including drill cuttings wash water shall be collected in disposal pit lined with HDPE lining evaporated or treated and shall comply with 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 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 Bhopal.</p>	<p>Complied.</p>
<p>X. No effluent/ drilling mud/ drill cuttings shall be discharged/ disposed off into nearby surface water bodies.</p>	<p>Waste water including drilling mud was collected in disposal pit lined with HDPE lining for evaporation to atmosphere.</p>
<p>XI. Produced water shall be treated in ETP. Treated produced water shall be disposed off through injection well as per CPCB/MoEF guidelines.</p>	<p>Complied.</p>
<p>XII. Good sanitation facility shall be provided at drilling site. Domestic sewage shall be disposed septic tank/sock pit.</p>	<p>Complied.</p>
<p>XIII. 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</p>	<p>Complied.</p>

and spent oil shall be disposed of to the authorized recycler.	
XIV. 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 <sup>th</sup> August, 2005.	Complied.
XV. 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 knockout drums shall be installed to minimize gaseous emissions during operation.	All necessary measures were taken during drilling period to prevent fire hazards.  No ground flaring was done.
XVI. The company shall develop a contingency plan for H <sub>2</sub> S release including all necessary aspects from evacuation to resumption of normal operations. The workers shall be provided with personal H <sub>2</sub> S detectors in location of high risk of exposure along with self containing breathing apparatus.	Since the discovery of Dholka field in 1966s H <sub>2</sub> S has never been observed in any of the well. Though Gas detector was always available at drilling site, H <sub>2</sub> S not detected in any of the nine wells.
XVII. 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 Regional office at Bhopal.	Complied and Completed.
XVIII. BOP system shall be installed to prevent well blowouts during drilling operation. BOP measures during drilling shall focus on maintaining well hydrostatic pressure by proper pre-well planning and drill fluid logging etc.	To prevent blow out during drilling operations, a suitable Blow Out Preventer (BOP) system was always used. Geo Technical Order (GTO) for drilling of each well was kept ready before drilling operation. Proper specific gravity of drilling fluid was maintained during drilling. It was monitored by the <b>Mud Engineering Services</b> and JTI company man.
XIX. Emergency response plan shall be based on guidelines prepared by OISD, DGMS and Govt. of India	Complied.

<p>XX. 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.</p>	<p>After completion of drilling, all the 9 wells have been proved to be oil producers. There was no dry well as such plugging of the well and abandonment plan as per applicable Indian Petroleum Regulations was not required to be implemented.</p>
<p>XXI. All the commitments made to the public during public hearing/ public consultation meeting held on 30<sup>th</sup> October, 2012 for Kheda dist and 2<sup>nd</sup> Nov, 2013 for Ahmedabad district shall be satisfactory implemented and adequate budget provision shall be made accordingly.</p>	<p>Complied.</p>
<p>XXII. At least 5% of total cost of project shall be earmarked towards the Enterprise Social Commitment based on public hearing issues, locals need and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry Regional Office at Bhopal.</p>	<p>Point noted.</p>
<p>XXIII. Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules.</p>	<p>Complied.</p>
<p>XXIV. In case of commercial viability of the project (for exploratory drilling) is established, the company shall prepare a detailed plan for development of oil and gas fields and obtain fresh environmental clearance from Ministry.</p>	<p>Not applicable. The wells drilled are in-fill development wells.</p>
<p>XXV. Restoration of the project site shall be carried out satisfactorily and report shall be sent to the Ministry Regional Office at Bhopal.</p>	<p>Restoration of site (waste mud pit) has been completed at all the wells.</p>
<p>XXVI. Oil contained drill cuttings shall be monitored by some Authorized agency and report shall be sent to the Ministry Regional Office at Bhopal.</p>	<p>Complied.</p>
<p>XXVII. An audit shall be done to ensure that</p>	<p>Audit has been carried out and report</p>

the Environment Management Plan is implemented in totality and report shall be sent to the Ministry Regional Office at Bhopal.	already submitted to Regional Office, Bhopal.
XXVIII. Company shall have own Environment Management cell having qualified persons with proper background.	The company has its own Environment Management Cell.
XXIX. Company shall prepare 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 environment manual shall be available at the drilling site. Awareness shall be created at each level of management. All the schedules and results of environmental monitoring shall be available at the site office. Remote monitoring of site should be done.	Complied And Completed.
XXX. On completion of drilling, the company has to plug the drilled wells safety and obtain certificate from environment safety angle from the concerned authority.	All wells are producers. Plugging of the well is not required.
<b>B. General Conditions</b>	
I. The project authorities must strictly adhere to the stipulations made by GPCB.	Complied.
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 alteration in project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to Ministry to assess the adequacy of conditions imposed and to add additional protection measures required, if any.	No further expansion or modification of the Project is envisaged.
III. The project authorities must strictly comply with the rules and regulations under Manufacture, Storage and import of Hazardous chemicals Rules, 1989 as amended subsequently. Prior approvals from Chief Inspectorate of Factories,	Complied & Completed.

<p>Chief Controller of Explosives, Fire Safety Inspector etc. must be obtained, wherever applicable.</p>	
<p>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. 1989 75 dBA (daytime) and 70 dBA (nighttime).</p>	<p>Complied.</p>
<p>V. A separate Environmental Management Cell equipped with full fledged laboratory facilities must be set up carry out the environmental management and monitoring functions.</p>	<p>To carry out Environment Management and monitoring functions, JTI availed/availing the services of M/s. Kadam Environmental Consultants – Vadodara .</p>
<p>VI. A copy of clearance shall be sent by the proponent to concerned Panchayat, ZilaParishad/ Municipal Corporation, Urban Local body and local NGO, if any. From whom suggestions/ representations, if any, were received while processing the proposal. The letter shall also be put on the website of the company by the proponent.</p>	<p>Complied.</p>
<p>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 regional office of MoEF, the respective zonal office of GPCB. The criteria pollutant levels namely; PM10, SO2, NOx, HC, VOCs 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.</p>	<p>Complied. (Website: <a href="http://www.jtiindiaprojects.com">www.jtiindiaprojects.com</a>)</p>
<p>VIII. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated</p>	<p>Complied.</p>

<p>environmental conditions including results of monitored data to the Regional office of MoEF, the respective Zonal office of CPCB and GPCB. The Regional office of this Ministry/ CPCB/ GPCB shall stipulated conditions. EC and six monthly compliance status reports shall be posted on the website of the company.</p>	
<p>IX. The environmental statement for each financial year ending 31<sup>st</sup> March in form V as is mandated to be submitted to SPCB as prescribed under EP Act-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 office of the MoEF by email.</p>	<p>Complied.</p>
<p>X. The project proponent shall inform the public that the project has been accord environmental clearance by the Ministry and copies of clearance letter are available with the GPCB and may also be seen at website of the Ministry of Environment and forest at <a href="http://envfor.nic.in">http://envfor.nic.in</a> This shall be advertised within 7 days from the date of issue of the clearance letter., at least in two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and of the same shall be forwarded to the Regional office.</p>	<p>Complied.</p>
<p>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.</p>	<p>Project is still not closed technically as well as financially.</p>

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भारतीय डाक



SP JIVRAJPARK PO <380051>

EG345602922IN

Counter No:1,OP-Code:02

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RAVISHANKAR NAGAR BHOPAL, PIN:462016

From:J I T INDIA , AHD 380015

Wt:45grams,

Amt:40.00 ,30/01/2017 ,11:27

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EG345602919IN

Counter No:1,OP-Code:02

To:REGISTRAR OFFICE,GUJ POLLUTION BOARD  
NADIAD, PIN:387001

From:J I T INDIA , AHD 380015

Wt:45grams,

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EG345602905IN

Counter No:1,OP-Code:02

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GANDHINAGAR, PIN:382010

From:J I T INDIA , AHD 380015

Wt:45grams,

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भारतीय डाक



SP JIVRAJPARK PO <380051>

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Counter No:1,OP-Code:02

To:B R NAIDU,SCIENTIST D AND INC  
VADODARA, PIN:390013

From:J I T INDIA , AHD 380015

Wt:45grams,

Amt:40.00 ,30/01/2017 ,11:29

Taxes:Rs.5.00<<Track on [www.indiapost.gov.in](http://www.indiapost.gov.in)>>