



GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE
NORTH EASTERN REGIONAL OFFICE
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RO-NE/E/IA/TR/MI/30/1959
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Dated: September 29, 2015

To

Shri Tejindar Pal Singh, Project Manager,
Jubilant Oil & Gas Pvt. Ltd.,
Plot No.15, Knowledge Park II,
Greater Noida-201 306,
Distt. Gautam Budh Nagar,
Utter Pradesh, India.

Sub: Certified copy of Monitoring Reports-reg.

Ref: i. Your letter No. JOGPL/HSE/TRIPURA/MoEF/2015/01 dated 07.05.2015
ii. EC No. J-11011/1109/2007-IA-II (I) Date: 11.06.2009.

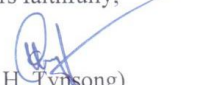
Sir,

With reference to the above, I am directed to enclose herewith certified copy of the latest monitoring reports as requested in accordance with the Ministry of Environment & Forests, Government of India's circular No.F.N.J-1101/618/2010-IA-II (I) dated 30.05.2012.

This is issued with the approval of Additional Principal Chief Conservator of Forest (C)

Encl: As stated.

Yours faithfully,


(Dr. H. Fynsong)
Scientist C



MONITORING REPORT ON COMPLIANCE OF ENVIRONMENTAL
CLEARANCE STIPULATED CONDITIONS



Monitored by:

Dr. H. Tynsong, Scientist C,
Ministry of Environment, Forest & Climate Change,
Regional Office-Shillong-793 021.

Date of monitoring: 18.08.15.

August, 2015

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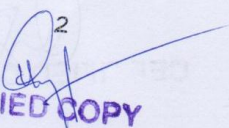
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PART I
SALIENT FEATURES OF THE PROJECT

- ✦ **Project type** : Exploratory Drilling (Mining Operation).
- ✦ **Name of the project** : Exploratory/appraisal for 15 wells in on-shore oil & gas exploration block AA-ONN-2002-1 in Dhalai, West & South Tripura District by M/s Jubilant Oil & Gas Private Ltd.
- ✦ **Clearance letter no.& date** : J-11011/1109/2007-IA-II (I) Date: 11.06.2009.
- ✦ **Location** : District West and South Tripura, Tripura.
- ✦ **Address of correspondence** : Shri Tejindar Pal Singh, Project Manager,
Jubilant Oil & Gas Pvt. Ltd.,
Plot No.15, Knowledge Park II,
Greater Noida-201 306,
Distt. Gautam Budh Nagar,
Utter Pradesh, India.
- ✦ **Environmental Management Plan** : i. Waste management (domestic waste, food waste, water waste, Biomedical waste, drilling waste, chemical waste, oil waste etc.)
ii. Proper restoration of drilled sites,
iii. Creation of Environmental Management Cell,
iv. Only water based drilling mud shall be used for drilling operations,
v. Establishment of mobile ETP,
vi. Monitoring and
vii. Providing acoustic enclosure to DG sets
- ✦ **Person available** : Shri .B Singh, Security Officer,
Mob No. 9436460076
Shri D. K. Sawan, Base Manager
Mob No. 9436540677.

Present status of the project: The Ministry of Environment and Forests accorded Environmental Clearance for exploratory drilling for 15 Nos. of exploration/appraisal wells for Oil & Gas exploration in the block AA-ONN-2002/1 in Districts Dhalai, West Tripura and South Tripura in the State of Tripura. The block area is mostly covered with dense mixed mountainous forest ranges and involves an area of 1116 km² of forest land. An area of 282 km² of Gumti Wild life Sanctuary is partly located within the block at its eastern edge. Sepahijala wild life Sanctuary is located at a distance of 34 km west of block edge. Khowai, Gumti and Mahuri which are perennial rivers flow through the block. Water based mud


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(WBM) was used as drilling fluid. Project authorities are required to prepare a detailed plan for development of gas fields before going for commercial production for gas bearing wells and obtain fresh clearance from the Ministry as stipulated in Specific Condition No. XXII. All the wells monitored, the drilling activities has been completed. Project authorities informed that, all the wells drilled are more than 10 km from the nearest Wildlife Sanctuary. The number of wells drilled and its present status is given in Table 1.

Table 1. Name of wells, dates of drilling completed, type of land and future plan

Well Name	Drilling completed (date)	Status of Well	Land Type	Future Plan
Jailungpara	22.7.2009	Dry well which has been Plugged and Abandoned.	Pvt. Land	Site has been restored and handed over to land owners through Govt. of Tripura.
Kathalchari-1	14.8.2009	Gas Discovery. Temporarily plugged & suspended	Pvt. & Govt. Land	To be developed as Producer Well in future.
Ambasa North	5.10.2010	Gas indication/ Discovery. Temporarily Plugged and Suspended	Pvt. Land	Plans to re-test this well
Srikantabari-A1	28.1.2012	Temporarily plugged & suspended	Pvt. Land	Future utility will be decided after 3D Seismic data acquisition
Kathalchari -Ne (K1-Ne)	23.4. 2012	Temporarily plugged & suspended	Pvt. Land	Future utility will be decided after 3D Seismic data acquisition
Matabari-1	4.11.2012	Temporarily plugged & suspended	Pvt. Land	To be used as a Development/Producer Well
N. Atharamura-1	30.7.2013	Gas Discovery. Temporarily Plugged and Suspended	Forest land	To be used as a Development/Producer Well

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Part II

COMPLIANCE STATUS OF SPECIFIC CONDITIONS AND GENERAL CONDITIONS

A. SPECIFIC CONDITIONS:	Observation/Status of compliance	What need to be done/Non-compliance
i. Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority and National Board for Wildlife.	Project authorities informed that, all the wells drilled are more than 10 km from the nearest Wildlife Sanctuary.	Projects authorities should obtained prior NBWL Clearance for future drilling sites located within 10 km distance from the nearest Wildlife Sanctuary.
ii. Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs.Union of India in Writ petition (Civil) No. 460 of 2004 as may be applicable to this project.	Project authorities informed that, all the wells drilled are more than 10 km from the nearest Wildlife Sanctuary.	Projects authorities should obtained prior NBWL Clearance for future drilling sites located within 10 km distance from the nearest Wildlife Sanctuary.
iii. No drilling activities shall be carried within the Wild life Sanctuary and movement of the rigs and vehicles should be away from the Wildlife Sanctuary.	Project authorities informed that, no drilling activities have been carried out within the Wildlife Sanctuary.	-
iv. The company shall pay compensation for acquisition of private land as per the Central Government/State Government norms. The compensation to be paid to the land loser shall not be less than the norms/package as per the Policy on National Resettlement and Rehabilitation Rules, 2007.	Project authorities informed that temporary lease at mutually agreed rates have been paid. No land has been acquired.	-
v. The company shall obtain permission for diversion of forest land if any under the Forest (Conservation) Act, 1980.	Forest clearance for N. Atharamura-1 has been obtained in 2012.	Project authorities should obtained prior Forest Clearance for all remaining drilling sites located in forest land before taking up any drilling activities.
vi. The company shall comply with the guidelines for	It is informed that	-

disposal of solid waste; drill cutting and drilling fluids for onshore drilling operation notified vide GSR.546 (E) dated 30 th August, 2005.	leachate collection has not been provided as only water based mud (WBM) has been used as drilling fluid. Since all the wells have already been drilled, hence the same cannot be check during monitoring.	
vii. The surface facilities shall be installed as per applicable codes and standards, international practices and applicable local regulations.	Project authorities informed that this condition has been complied. Since all the wells have already been drilled, hence compliance of the same cannot be check in the field during monitoring.	-
viii. The top soil removed shall be stacked separately for reuse during restoration process.	Project authorities informed that this condition has been complied. Since all the wells have already been drilled, hence compliance of the same cannot be check in the field during monitoring.	-
ix. The Company shall take necessary measures to reduce noise levels at the drill site by providing mitigation measures such as proper acoustic enclosures to the DG set and meet the norms notified by the MoEF. Height of all the stacks/vents shall be provided as per the CPCB guidelines.	Project authorities informed that this condition has been complied. However, since all the wells have already been drilled, hence compliance of the same cannot be check in the field during monitoring.	-
x. Monitoring of HC concentration in the ambient air and non-methanated HC shall be undertaken and data submitted to the Ministry and State Pollution Control Board.	Project authorities have been complied this condition.	-
xi. The company shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on its 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	Project authorities have submitted to this Regional Office monitoring data of ambient air as well as stack emissions.	The company should upload the status of compliance of the stipulated environmental clearance conditions,

State Pollution Control Board. The criteria pollutant levels namely; SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical parameters like methanated HC, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.		along with monitored data on its website as stipulated.
xii. Drilling waste water including drill cutting was 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 land fill shall be created at the site with the Authorization of the State Pollution Control Board. The design of the secured shall be approved by the State Pollution Control Board.	Project authorities informed that this condition has been complied. Since all the wells have already been drilled, hence compliance of the same cannot be check in the field during monitoring.	-
xiii. Company shall construct the garland drain around the drilling site to prevent runoff of oil containing waste into the nearby water bodies.	Project authorities informed that this condition has been complied. Since all the wells have already been drilled, hence compliance of the same cannot be check in the field during monitoring.	-
xiv. The recyclable waste (oily sludge) and spent oil shall be disposed to the authorized recyclers.	Project authorities informed that this condition has been complied.	-
xv. Only water based drilling mud shall be used. The drilling mud shall be recycled. In case of use of synthetic oil based mud due to any problem due to geological formation for drilling, low toxicity, Oil Based Mud (OBM) having aromatic content < 1 % shall be used. If it intended to use such OBM/SBM to mitigate specific hole problem, it should be intimated to Ministry of Environment and Forests/State Pollution Control Board.	Project authorities informed that this condition has been complied. Since all the wells have already been drilled, hence compliance of the same cannot be check in the field during monitoring.	-
xvi. Quantities of storage and chemicals and additives required for drilling mud preparation shall be below the specified threshold for specified storage permitted under the MSIHC Rules.	It was informed that storage of chemicals and additives use for drilling mud preparation is below the threshold storage unit. The MSIHS rules were followed.	-
xvii. Pre hire rig inspection, safety meetings, tool box	It was informed that	-

meeting, job safety analysis and audits shall be carried out to identify hidden/potential hazardous.	OMR, OISD and RCP guidelines were followed for equipment and employees.	
xviii. The Company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. At place of ground flaring, the overhead flaring stack with knockout drums shall be installed to minimize gaseous emissions during flaring.	It was informed that OMR, OISD and RCP guidelines were followed to prevent fire hazard.	-
xix. To prevent fire and explosion at Oil and Gas facility, potential ignition sources should be kept to a minimum and adequate separation distance between potential ignition sources and flammable material should be in place.	Guidelines of OMR, OISD and RCP were followed to prevent fire and explosions from potential explosion.	-
xx. 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 should be provided with personal H ₂ S detectors in locations of high risk of exposure along with self-containing breathing apparatus.	It was informed that no H ₂ S gas was encountered in all drilling sites.	-
xxi. To prevent well blowouts during drilling operations, Blow Out Preventor (BOP) system shall be installed. Blow Out Prevention measures during drilling shall focus on maintaining well bore hydrostatic pressure by proper pre-well planning and drilling fluid logging etc.	It was informed that BOP was tested as per DGMS and API guidelines.	-
xxii. 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 near 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.	It observed that all well heads has already been secured and drilling sites manned with security guards. Full abandonment has not been initiated as the company is planned for commercial field development.	-
xxiii. In case the commercial viability of the project is established, the company shall prepare a detailed plan for development of Oil and Gas field and obtain fresh clearance from the Ministry.	It is informed that for wells with commercial viability the company shall prepare a detailed plan for development of oil and gas field and would obtained fresh clearance from Ministry.	Project authorities are required to prepare a detailed plan for development of gas fields before going for commercial production for gas bearing wells and obtain fresh clearance


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		from the Ministry.
xiv. Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.	Project authorities informed that this condition has been complied. Since all the wells have already been drilled, hence compliance of the same cannot be check in the field during monitoring.	-
xv. Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules.	This condition has been complied.	-
B: GENERAL CONDITIONS:	Observation/Status of compliance	What need to be done/Non-compliance
i. The project authorities must strictly adhere to the stipulations made by the Assam Pollution Control Board and the State Government.	This condition has been 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 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.	Project authorities agreed for compliance.	-
iii. The emission of (RSPM, SPM, SO ₂ , and NO _x HC & HC & VOC) from DG Set and from flare stack shall conform to the standards prescribed by the SPCB. Regular monitoring of Ambient Air for HC to VOC shall be carried out as per CPCB guidelines. Stack height attached to DG sets shall be in-conformance with the environment protection acts and rules.	Monitored data during drilling phase for RSPM, SPM, SO ₂ , NO _x , HC & VOC from DG set and from flare stack are within permissible limit. Analysis of ambient air is being carried out through an outside agency.	-
iv. 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	This condition has been complied.	-

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Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained, wherever applicable.		
v. The project authorities must strictly comply with the rules and regulation with regard to handling and disposal of Hazardous Wastes (Management, Handling and Trans Boundary Movement) Rules, 1989/2003/2008 wherever applicable. Authorization from the State Pollution Control Board must be obtained for collections/treatment/storage/disposal of hazardous wastes.	This condition has been complied.	-
vi. 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).	Monitored data during drilling phase for noise are within permissible limit. Analysis of ambient air is being carried out through an outside agency.	-
vii. 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 has been constituted. However, full-fledged laboratory facilities have not been setup.	Full-fledged laboratory facilities should be been setup as stipulated.
viii. The project authorities will provide adequate funds both recurring and non-recurring 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.	This condition has been complied.	-
ix. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the State Pollution Control Board. The Regional Office of this	This condition has been complied.	-

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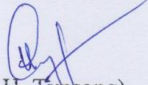
<p>Ministry at Shillong/Central Pollution Control Board/State Pollution Control Board shall monitor the stipulated conditions.</p>		
<p>x. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/representations, if any, were, received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.</p>	<p>This condition has been complied.</p>	<p>-</p>
<p>xi. 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 State Pollution Control Board/Committee and may also be seen at Website of the Ministry and Forests at http://www.envfor.nic.in. This shall be advertised within seven days if the issues of this letter in at least two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned.</p>	<p>This condition has been complied.</p>	<p>-</p>
<p>xii. 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.</p>	<p>Project authorities have not informed 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 authorities should inform this regional Office the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work as stipulated.</p>

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GENERAL REMARKS: Since all the wells have already been drilled and most conditions laid down in the Environment Clearance, are applicable during drilling stage; assessment of compliance are based mainly on claims and supporting data provided by project authorities during monitoring. Overall, the implementation of conditions laid down in the Environment Clearance, are found satisfactory. Some of the points discussed with the project authorities which need prompt action at their end include:

- i. Projects authorities should obtained prior NBWL Clearance for sites located within 10 km distance from the nearest Wildlife Sanctuary before taking up drilling activities (specific condition no. i & ii).
- ii. Project authorities should obtained prior Forest Clearance for all remaining drilling sites located in forest land before taking up any drilling activities (specific condition no.v).
- iii. The company should upload the status of compliance of the stipulated environmental clearance conditions, along with monitored data on its website as stipulated (specific condition no.xi).
- iv. Project authorities are required to prepare a detailed plan for development of gas fields before going for commercial production for gas bearing wells and obtain fresh clearance from the Ministry (specific condition no. xxiii).
- v. Full-fledged laboratory facilities should be been setup as stipulated (general condition no.vii).
- vi. Project authorities have to inform this regional Office the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work as stipulated (general condition no.xii).


(Dr. H. Tynsong)
Scientist C



JOGPL/AA-ONN-2002/1/EC/2016/03

2nd May 2016

To,
Dr. H. Tynsong
Scientist C
Ministry of Environment, Forests and Climate Change
North Eastern Regional Office
Law-U-Sib, Lumbatngen
Near MTC Workshop, Shillong-793021

Subject: Certified copy of Monitoring Reports -reg.

Reference: MoEF letter no. RO-NE/E/IA/TR/MI/47/1959 dated 29th September 2015

Dear Sir,

Reference is made to monitoring reports of Environmental Clearance granted to M/s. Jubilant Oil & Gas Pvt. Ltd. (EC No. J-11011/1109/2007/-IA II(I) dated 11.06.2009). Please find below the point wise response to general remarks made vide above mentioned letter dated 29th September 2015:

- i. **REMARKS:** Projects authorities should obtain prior NBWL Clearance for sites located within 10 km distance from the nearest Wildlife Sanctuary before taking up drilling activities (specific condition no. i & ii).

RESPONSE: All the well drilled are located more than 10 km distance from the nearest Wildlife Sanctuary. In future if any location falls within 10 km, approval from NBWL will be taken.

- ii. **REMARKS:** Project authorities should obtained prior Forest Clearance for all remaining drilling sites located in forest land before taking up any drilling activities (specific condition no v.)

RESPONSE: We will take the necessary forest clearance approvals for all well sites falling in forest land before start drilling activities.

- iii. **REMARKS:** The company should upload the status of compliance of the stipulated environmental clearance conditions, along with monitored data on its website as stipulated (specific condition no. xi.)

RESPONSE: Noted and the compliance report of October 2015 to March 2016 has been uploaded on company website.

A Jubilant Bhartia Company

OUR VALUES



Jubilant Oil & Gas Pvt. Ltd.

CIN: U74899UP1992FTC047880

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Distt. Gautam Budh Nagar Uttar-Pradesh, India

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Email: CorporateCommunications@jubilantenergy.com



- iv. **REMARKS:** Project authorities are required to prepare a detailed plan for development of gas fields before going for commercial production for gas bearing wells and obtain fresh clearance from the Ministry (specific condition no. xxiii.)

RESPONSE: The Field Development Plan has been prepared and approved by DGH and MoPNG for area where commercial discovery has been declared. A separate Environmental Clearance (EC) application has been made for development area.

- v. **REMARKS:** Full-fledged laboratory facilities should be been setup as stipulated (general condition no. vii.)

RESPONSE: CPCB approved lab will be hired for monitoring purpose.

- vi. **REMARKS:** Project authorities have to inform this regional Office the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work as stipulated (general condition no xii).

RESPONSE: Noted and will comply.

Thanking You,

Yours Sincerely,
For Jubilant Oil and Gas Pvt. Ltd.


Tejinder Pal Singh
Project Manager

Cc:

1. Base Manager, Jubilant Oil & Gas Pvt. Ltd., Agartala, Tripura.