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Dated: 29th April, 2017

To,

The DGM (Chemistry), CHSE
M/s ONGC,
Corporate HSE, 8th Floor,
Core IV, Scope Minar,
Delhi - 110 092

Sub: Development Drilling in the Aliabet Oil Field of Ankleshwar Asset, Gujarat by M/s ONGC Ltd. - Terms of Reference - reg.

Sir,

Kindly refer your proposal no. IA/GJ/IND2/60507/2016; dated 20th November, 2016 along with project documents including Form-I, Pre-feasibility Report and draft 'Terms of Reference' as per the EIA Notification, 2006. It is noted that the Proposal is for development Drilling of 7 Nos. wells in the Aliabet Oil Field of Ankleshwar Asset, Gujarat by M/s ONGC Ltd.

2.0 During the EAC meeting the PP informed that:

- i. Initial Area at the time of award of the NELP V Block CB-OSN-2003/1 was 2394 Sq. Km. (Off Shore Part-2258 sq. km and land Part- 136 sq. km). Pursuant to Article A 1.b for extension in Phase-I, 25% area (598.5 Sq. Km) towards western off shore part of the block has been relinquished. Area remained in the block after relinquishment of 25% area was 1795.5 Sq. Km. (Off shore Part-1695.5 sq. km., Land Part-136 sq.km). After the end of phase-II, ONGC decided not to enter exploration phase-III and applied for relinquishment of total Area of 1293 sq. Km (Off Shore Part- 1247.5 sq.km, Land Part- 45.75 sq.km) and proposed to retain 502.00 Sq. Km (Off shore Part : 411.75 Sq. Km + Land Part: 90.25 Sq. Km) within which Aliabet Gas discovery area falls. **Total Area to be retained as Area-I = Part Area of Offshore Part-B + Land Part of Part-A= (411.75 + 90.25 = 502.00 sq.km).**
- ii. The proposal does not involves approval/clearance under the Forest (Conservation) Act, 1980, wildlife (Protection) Act, 1972 and C.R.Z notification, 2011?
- iii. No litigation pending against the project and/or land in which the project is proposed to be set up.

The Draft Terms of Reference (TOR) have been discussed and finalized during 17th Expert Appraisal Committee (Industry-2) meeting held during 26th - 29th December, 2016 for preparation of EIA/EMP report. The Committee prescribed

the following additional TOR along with Standard TOR as available on the Ministry website for preparation of EIA-EMP report:


A. Additional TOR

- i. No. & type of wells for which environmental clearance is accorded and No. of new wells proposed during expansion. Status and No. of the wells which are completed and closed.
- ii. Project Description and Project Benefits
- iii. Details of eco-sensitive areas such as coral reef, marine water park, sanctuary etc. within 10 km radius of the proposed wells.
- iv. Recommendation of SCZMA/CRZ clearance as per CRZ Notification dated 6th January, 2011 (if applicable).
- v. Details on support infrastructure and vessel in the study area.
- vi. Climatology and meteorology including wind speed, wave and currents, rainfall etc.
- vii. Details on establishment of baseline on the air quality of the areas immediately affected by the exploratory drilling and also particularly with reference to hydrogen sulphide, sulphur dioxide, NOx and background levels of hydrocarbons and VOCs.
- viii. Details on estimation and computation of air emissions (such as nitrogen oxides*, sulphur oxides*, carbon monoxide*, hydrocarbons*, VOCs*, etc.) resulting from flaring, DG sets, combustion, etc. during all project phases.
- ix. Base line data collection for surface water for one season leaving the monsoon season within 1 km for each exploratory wells, particularly in respect of oil content in the water sample and sediments sample.
- x. Fisheries study w.r.t. benthos and marine organic material and coastal fisheries.
- xi. Source of fresh water. Detailed water balance, waste water generation and discharge.
- xii. Noise abatement measures and measures to minimize disturbance due to light and visual intrusions in case of project site closed to the coast.
- xiii. Procedure for handling oily water discharges from deck washing, drainage systems, bilges etc.
- xiv. Procedure for preventing spills and spill contingency plans.
- xv. Procedure for treatment and disposal of produced water.
- xvi. Procedure for sewage treatment and disposal and also for kitchen waste disposal.
- xvii. Details on solid waste management for drill cuttings, drilling mud and oil sludge, produced sand, radioactive materials, other hazardous materials, etc. including its handling and disposal options during all project phases.
- xviii. Storage of chemicals on site.
- xix. Commitment for the use of water based mud (WBM) and synthetic oil based mud in special case.
- xx. Details of blowout preventor Installation.
- xxi. Risk assessment and mitigation measures including whether any independent reviews of well design, construction and proper cementing and casing practices will be followed.
- xxii. Handling of spent oils and oil from well test operations.
- xxiii. H₂S emissions control plans, if required.
- xxiv. Details of all environment and safety related documentation within the company in the form of guidelines, manuals, monitoring programmes including Occupational Health Surveillance Programme etc.

- xxv. Restoration plans and measures to be taken for decommissioning of the rig and restoration of on-shore support facilities on land.
- xxvi. Documentary proof for membership of common disposal facilities, if required.
- xxvii. Any litigation pending against the project or any directions/order passed by any Court of Law against the project. If so, details thereof.
- xxviii. Total capital and recurring cost for environmental pollution control measures.
- xxix. The public hearing is exempted under para 7 (ii) of the EIA Notification, 2006.
- xxx. Certified compliance report of concerned RO, MOEFCC for the conditions stipulated in the existing EC.


3.0 These 'TORs' should be considered for the preparation of EIA/EMP for Proposal for additional cogeneration unit Gas Turbine-IV at ONGC, Uran Plant, Uran, Raigad, Maharashtra by M/s ONGC Ltd., in addition to all the relevant information as per the 'General Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006.

4.0 The consultants involved in the preparation of EIA/EMP report after accreditation with Quality Council of India/National Accreditation Board of Education and Training (QCI/NABET) would need to include a certificate in this regard in the EIA/EMP reports prepared by them and data provided by other Organization(s)/Laboratories including their status of approvals etc.


29.4.2017
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Copy to:

The Member Secretary, Gujarat Pollution Control Board, Sector 10-A, Gandhi Nagar 382043, Gujarat.


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