



भारत सरकार/Govt. of India
रोजगार मंत्रालय/Ministry of Labour & Employment
खान सुरक्षा महा-निदेशालय /Directorate-General of Mines Safety
गुवाहाटी-क्षेत्र/Guwahati Region.



No. Ghy.R/ONGC-Jorhat/P-35(09)/

Guwahati, Dated, the

May, 2014.

From:

The Director of Mines Safety
Guwahati Region, H/No.16,
By Lane-10, Ganesh Mandir Path,
P.O. Noonmati, Guwahati-20.

To

The Group General Manger (P) & Agent,
Isolated Oil Mine (Production),
M/s ONGCL, ROB-I, PO - Nazira,
Distt. Sibsagar (Assam) Pin: 785 685.

I/c MSE-SP

13/05/14

Subject: Notice under Regulation 51 of the OMR, 1984 for construction of EPS-KSAB at
Isolated Production Oil Mine of M/s ONGC, Assam & Assam Arakan Basin, Jorhat.

Sir,

Please refer to your letter Nos. ONGC/Jorhat/ Surface/EPS-KSAB/2009 dated 20.11.2009 & ONGC/Jorhat/ Surface/EPS-KSAB/2010 dtd. 10.12.2010, recent discussion with the management on 06.03.2014, submitting therewith Notice in Form-VI for construction of EPS-KSAB of Isolated Oil Mine of M/s ONGC, Assam Asset, Jorhat, various Plans/Drawings, Emergency Plan and other relevant details, under Isolated Oil Mines of M/s ONGC, Assam Asset, Jorhat.

The matter has since been considered in light of what has been stated in the Notice/ application submitted in Form VI and Plan/drawing No. Nil dated 09.11.2009 and revised drawing No. Nil dated Nil, Process Flow Diagram dated 19.11.2009, Site Plan for EPS-KSAB & Emergency Plan etc., enclosed therewith. There is no objection for construction of **an installation of EPS-KSAB** of Isolated Oil Mines of M/s ONGC, Assam Asset, Jorhat as per detail and specification mentioned in Annexure - I (lay out Plan of **EPS-KSAB**) and as shown in and plans/drawings referred above, subject to the strict compliance of the following conditions:

1.0 The **EPS-KSAB Installation** shall be operated and kept maintained in a safe manner in strict compliance of the relevant provisions of Oil Mines Regulations, 1984, so as not to cause any damage to any life of person or property.

2.0 The **EPS-KSAB Installation** shall be in premises which maintain adequate safe distances with protected area all around, where no structures/dwellings, not belonging to M/s OIL, shall be allowed to be constructed.

2.1 The premises of **EPS-KSAB Installation**, shall be effectively fenced by means of a masonry/concrete wall with barbed wire at the top of not less than 1.8m height, and provided with entry point(s)/gate(s) duly manned round the clock. The fence around each of the installations shall be examined by a competent person once at least in every 7 days and a record thereof kept and maintained in a bound paged book duly signed by the Installation Manager.

3.0 **EPS-KSAB Installation** shall be kept under the direct charge of an Installation manager, duly appointed in writing by the mine manager, and his name shall be kept displayed prominently at the entrance of the installation.

4.0 Entire area within the fence around the installations shall be considered as hazardous area and within this hazardous area -

- No person shall light or be permitted to light, or use, any fire or naked light.
- No vehicle driven by internal combustion engine shall be permitted to enter the hazardous areas except upto crude oil loading/unloading point demarcated by the Manager/Installation Manager.
- No lamp or light other than approved electric safety lamp or torch shall be used in this area.

24/5

d) A competent person shall be appointed at the entry point(s)/gate(s), who shall make thorough search for contrabands on every person entering the hazardous area.

5.0 Suitable lightning arresters shall be provided within the **EPS-KSAB Installation**, permanent in nature.

5.1 All equipments shall be properly earthed. The earthing system shall be tested for its effectiveness and a record of every such test carried out shall be maintained in bound paged book kept for the purpose. In this regard the precautionary measures suggested in DG's (Tech) Circular No. 06 of 2012 shall be complied with.

6.0 Adequate general lighting arrangement shall be provided at the **EPS-KSAB Installation**.

7.1 Every electrical lighting apparatus shall be of type approved by the Chief Inspector and shall comply with the provisions of Central Electricity Authority (Measures relating to Safety & Electrical Supply) Regulation, 2010. They shall be so fitted as to prevent accidental damage.

7.2 Adequate number of self contained hand lamps of approved type shall be made and kept available at the **EPS-KSAB Installation**, for immediate use in case of emergency.

8.0 Provisions of Central Electricity Authority (Measures relating to Safety & Electrical Supply) Regulation, 2010, shall be strictly complied with at **EPS-KSAB of Isolated Oil Mines of M/s ONGC, Assam Asset, Jorhat**. Permissions under relevant provisions of Central Electricity Authority (Measures relating to Safety & Electrical Supply) Regulation, 2010, shall be taken, wherever applicable.

9.0 Adequate number of gas detectors shall be installed at places where inflammable gas is likely to be found, which shall be inter-coupled with tripping device set at 20% of Lower Explosive Limit. The gas detectors shall also be inter-coupled with automatically operated audio-visual alarm system that gets triggered at 20% of Lower Explosive Limit.

10.0 All electrical motors, switch gears, lighting and other fittings, and electrically operated gas-detectors, smoke-detectors, fire-detectors, flow recorders, control valves, safety valves, relief valves, tripping devices, etc., installed in Hazardous Zone 1 & Zone 2 areas shall be of approved type, as required by the provisions of Regulation 75(2) of the Oil Mines Regulations, 1984.

11.0 Provisions of Regulations 73 of the Oil Mines Regulations, 1984, if so applicable, shall be complied with for equipment/machinery/other materials used at **EPS-KSAB of Isolated Oil Mines of M/s ONGC, Assam Asset, Jorhat**.

11.1 All parts and working gear and apparatus used, or forming part of the equipment, and all foundations shall be of good construction and adequate strength and shall be kept properly maintained.

12.0 All apparatus used as or forming a part of the equipment, which contains or produces air, gas, petroleum or steam at a pressure greater than the atmospheric pressure, shall be so constructed/installed and maintained as to obviate any risk of fire, bursting, explosion or collapse. Provisions of Regulation 78 of Oil Mines Regulations, 1984, shall be fully complied with in this regard.

12.1 All vessels, receivers and containers installed at the **EPS-KSAB of Isolated Oil Mines of M/s ONGC, Assam Asset, Jorhat**, which contains or produces air, gas, petroleum or steam at a pressure greater than the atmospheric pressure, with all its fittings and pipelines etc., shall be subjected to hydraulic test at a pressure of at least one-and-half time maximum permissible working pressure after every renewal or repair and in any case at intervals of not more than three years. The results of every such tests shall be recorded in a bound paged book kept for the purpose and shall be signed and dated by the competent, person carrying out the test and countersigned and dated by the Installation Manager/Mine Manager.

All the pressure tanks/oil Storage tanks shall also be subjected to NDT tests once in three years and records thereof shall also be kept maintained.

13.0 All pipelines, valves, flanges, equipment or other material fittings that are meant to be used at the **EPS-KSAB of Isolated Oil Mines of M/s ONGC, Assam Asset, Jorhat**, shall conform to API, ASA & BIS, and shall be used in strict compliance of the provisions of Regulation 73 of Oil Mines Regulations,

24/5

1984. They shall be of such type, standard and make as recognized or approved by the Chief Inspector of Mines.

13.1 Pipelines, pipe fittings and valves in **EPS-KSAB of Isolated Oil Mines of M/s ONGC, Assam Asset, Jorhat**, shall be installed, supported and maintained in such a manner so as to safely withstand stresses imposed on them by internal and external loads, and by contraction, expansion and vibration.

13.2 All the pipelines in the installation shall be subjected to hydraulic test and all the joints shall be subjected to radiographic test before commissioning, and record thereof shall be kept maintained. Such test shall subsequently be done once in three years.

14 Adequate arrangement for effective and timely fire fighting shall be provided and kept maintained at the **EPS-KSAB of Isolated Oil Mines of M/s ONGC, Assam Asset, Jorhat**, during the operation as called for by the Oil Mines Regulations, 1984.

15 All safety precautions, as called for by the provisions of Oil Mines Regulations, 1984, and those listed in Form - VI submitted by you shall be complied with.

16 Risk Assessment Study shall be done before commissioning of the Installation and Hazard Identification and Hazard Analysis Reports shall be prepared in accordance with the above. Copy of the reports shall also be submitted to this Directorate.

17 All the flow recorders, control valves, safety valves, relief valves, tripping devices, and detectors shall be tested before commissioning of the installation and also once in six months thereafter, and records thereof shall be kept maintained.

18 *Hot work-permits* and *cold work-permits* (as recommended by 10th Conference on Safety in Mines) shall be issued by the installation manager, in-charge of construction of **EPS-KSAB of Isolated Oil Mines of M/s ONGC, Assam Asset, Jorhat**, before work of such nature is undertaken.

19 Gas produced at **EPS-KSAB Installation** shall not be discharged to the atmosphere unless burnt in accordance with clause (b) of Sub Reg. 96(4) of the OMR, 1984 or in the manner otherwise approved by the Chief Inspector of Mines through a general order or special order.

19.1 The flare shall be sited not less than 90 meters from any part of production installation or petroleum storage tanks and boundary wall of installation.

19.2 The gas to be burned shall be discharged from a flare line in the following manner;

(i) the flare line shall terminate with the vertical rise of at least 9 meters or such greater height as may be required in the instant case.

(ii) the flare line shall be adequately anchored and provided with suitable means to prevent extinction of flames ; and

(iii) when the gas flow is intermittent, the flare-line shall be provided with a remote controlled electrical ignition device to ensure continuous ignition of any gases.

19.3 Remoter system of firing of the main as well as pilot burner of heating vessels shall be provided to avoid use of open flame to light them.

20 Work connected with the construction shall be supervised at all times by supervisors/officials of M/s ONGC Ltd.

21 It shall be ensured by M/s ONGC Ltd. that –

(a) Contractors engaged in construction work of the **EPS-KSAB Installation** and their employees/workers are familiar with the relevant parts of the statute, health and safety management system and they shall be provided with copies of such documents prior to commencing of the work.

(b) Contractors' arrangements for health and safety management are consistent with those of M/s Oil India Ltd. All the rules, regulations and bye-laws, as applicable to M/s Oil India Ltd., shall also be applicable to the contractor(s).

(c) Ensure that every contractor is provided with written safe work procedures for the work to be carried out, stating clearly the risk involved and how it is to be managed, and that the contractors provide machinery, operators and other staff in consistent with safe work procedures for such work.

P24/5

- (d) All activities and work being carried on by the contractors are monitored to ensure that they are complying with all the requirements of statute and systems/practices related to safety, welfare and health.
- (e) Every worker employed by contractors is imparted relevant training and is provided with written safe work procedure for the work to be carried out by him, in the language understood by him, stating clearly the risk involved and how it is to be managed. Inexperienced persons shall not be deputed alone.
- 22 Recommendations of 10th Conference on Safety in Mines on Occupational Health Surveillance, Contractor work vis-à-vis Safety, Implementation of "Cold Work Permit" shall be complied with.
- 23 Plans of pipe lines of flowing wells connected with **EPS-KSAB Installation** shall be up-dated showing villages, surface features, location of valves etc. and copy of such plans shall be displayed at every group gathering station.
- 24 No further alteration or modification in the layout of the **EPS-KSAB of Isolated Oil Mines of M/s ONGC, Assam Asset, Jorhat**, shall be done without express permission in writing from this Directorate.
- 25 You shall inform forthwith this Directorate and the District Magistrate as soon as the said facilities at the **EPS-KSAB of Isolated Oil Mines of M/s ONGC, Assam Asset, Jorhat**, are installed so that the same can be inspected by this Directorate before they are commissioned.

The Notice under reference is hereby noted in this Directorate.

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(डी० के० साहू)
खान सुरक्षा निदेशक,
गुवाहाटी क्षेत्र, गुवाहाटी

Memo No. Ghy.R/ONGC-Jorhat/P-35(09)/ 793 Guwahati, Dated, the 5th May, 2014.

प्रतिलिपि सुचनार्थ एवं आवश्यक कार्रवाई हेतु निम्नलिखित को प्रेषित :

Copy forwarded for information and necessary action to:

1. The Manager, Isolated Oil Mine (Production), M/s ONGCL, Assam & Assam Arakan Basin, Jorhat Nambar-III Building, Cinnamara, PO & Dist - Jorhat (Assam) Pin- 785 704.
2. The Basin Manager, Assam & Assam Arakan Basin, M/s ONGCL, Dhansiri Bhawan, Cinnamara, Jorhat, M/s ONGC Ltd., P.O. & Distt. Jorhat (Assam), Pin: 785704.
3. The Asset Manager & Executive Director, Assam Asset & Nominated Owner of Isolated Oil Mine (Production), M/s ONGC Ltd., P.O. Nazira, (Assam). Pin: 785 685.

खान सुरक्षा निदेशक,
गुवाहाटी क्षेत्र, गुवाहाटी