

F. No. J-11011/149/2016-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(IA- II Section)

Indira Paryavaran Bhawan
Jorbagh Road, New Delhi - 3

Dated: 22nd March, 2018

To

M/s Oil and Natural Gas Corporation Ltd
Corporate HSE, 8th Floor Core IV
SCOPE Minar, Delhi - 110 092

Sub: Expansion of Hazira Gas Processing Complex by adding Captive Combined Cycle Power Plant at Tehsil Chorasi, District Surat (Gujarat) by M/s Oil and Natural Gas Corporation Ltd - Environmental Clearance - reg.

Sir,

This has reference to your proposal No. IA/GJ/IND2/53457/2016 dated 9th March, 2017 submitting the EIA/EMP report on the above subject matter.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for expansion of Hazira Gas Processing Complex by adding Captive Combined Cycle Power Plant of 51 MW by M/s Oil and Natural Gas Corporation Ltd at Tehsil Chorasi, District Surat (Gujarat).

3. The land required for the project is 10000 sq.m, which is available within the existing plant complex. The cost of the project is Rs. 360 cr. The project will employ 250 personnel, both departmental and non-departmental during execution.

4. The unit currently has three gas turbines of combined capacity 60 MW with attached heat recovery steam generators and separate gas fired boilers too. It is proposed to phase out two gas turbines by putting up the Captive Combined Cycle Power Plant of 51 MW capacity (33 MW Gas turbine and 18 MW Steam turbine), with an environment friendly efficiency unit having dry low NOx burners with NOx emissions around 25 ppm against the stipulated 50 ppm levels. Online SEMS system is part of the equipment. Specific gas consumption per unit electricity production is around 1790 kcal/kwhr as compared to 3200 kcal/kwhr of the existing units.

The fuel (natural gas) will be made available within the complex through the existing distribution terminal. The gas requirement would be 0.27 MMSCMD at designed 51 MW load. As natural gas is a clean fuel, NOx emission will be minimum and there will be negligible SO₂ and no particulate matter emissions. For intermittent type noise sources like safety valves, start-up steam vents, inlet of the bypass stack, etc. adequate noise attenuators shall be provided. Suitable measures shall also be taken to limit the plant boundary noise level to less than 55 dBA during day time and 45 dBA during night time.

5. Water requirement for the combined cycle power plant shall be sourced from the existing facilities. Total water requirement is 2433 cum/day, proposed to be met from Irrigation department water supply. Necessary consent has been obtained from Irrigation department for total water usage of 7490907 cum/year for the complex.



6. The project/activity is covered under category A of item 1(b) 'Offshore and onshore oil and gas exploration, development & production' of the Schedule to the Environmental Impact Assessment Notification, 2006, and requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC) in the Ministry.

7. The terms of reference (ToR) for the project was granted on 25th October, 2016. Public hearing was exempted under the provisions as per para 7 Stage III (3) (i) (b) of the EIA Notification, 2006, as plant is located in notified Industrial Estate.


8. The proposal for environmental clearance was considered by the EAC (Industry-2) in its meeting held on 27 – 29 March, 2017. The project proponent and the accredited consultant M/s ONGC Ltd presented the EIA/EMP report as per the ToR. The committee found the EIA/EMP report satisfactory and in consonance with the ToR, and recommended the proposal for environmental clearance.

9. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project '**Expansion of Hazira Gas Processing Complex by adding Captive Combined Cycle Power Plant of 51 MW**' by M/s Oil and Natural Gas Corporation Ltd at Tehsil Chorasi, District Surat (Gujarat), under the provisions of EIA Notification, 2006 and the amendments made therein, subject to compliance of the specific and general conditions stipulated in the environmental clearance dated 12th November, 2008 granted by the Ministry for the existing gas processing plant/complex.

10. The Ministry may revoke or suspend the clearance, at subsequent stages, if implementation of any of the conditions are not satisfactory.


11. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.

12. The conditions will be enforced, *inter alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.


22/3/2018
(S. K. Srivastava)
Scientist E

Copy to:-

1. The Additional PCCF(C), MoEF&CC Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, Bhopal -16
2. The Secretary, Forests and Environment Department, Government of Gujarat, Block 14, 8th floor, Sachivalaya, Gandhinagar -10(Gujarat)
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10A, Gandhinagar - 10(Gujarat)
5. Guard File/Monitoring File/Website/Record File


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