

F. No.10-17/2006-IA.III
Government of India
Ministry of Environment & Forests
(IA-III Division)

Indira Paryavaran Bhawan,
Jor Bagh Road, New Delhi - 3

Date: 12th June, 2018
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To

Shri Manmohan Ahuja, Project Director
M/s H Energy Gateway Private Limited
12th Floor, Knowledge Park Hiranandani Business Park, Powai,
Mumbai- 400 076 Maharashtra
E Mail: mahuja@henergy.com

Subject: Environmental and CRZ Clearance for Expansion of JSW Port at Jaigad Ratnagiri Maharashtra by M/s H Energy Gateway Private Limited - Amendment in Environmental and CRZ Clearance - reg.

Kindly refer to your online application vide proposal No. IA/MH/MIS/59326/2015 dated 29th September, 2016, submitted to this Ministry seeking Amendment in Environmental and CRZ Clearance issued vide Letter F.No. 10-17/2006-IA.III dated 19.12.2013 in terms of the provisions of the Environment Impact Assessment (EIA) Notification, 2006 and CRZ Notification, 2011 under the Environment (Protection) Act, 1986.

2. The proposal was considered by the EAC (Infra-2) in its 10th meeting held on 24-25 October, 2016, 25th meeting held on 29-30 November, 2017 and 27th meeting held on 25th January, 2018. The project proponent gave a detailed presentation on the salient features of the project and informed that:

- (i) JSW Jaigarh Port Limited (JSWJPL) was granted environmental and CRZ clearance to handle various solid and liquid cargoes for its phase-II expansion vide letter dated 19th December, 2013. The clearance includes 8 MTPA shore tankage based LNG receiving Terminal, re-gasification and send-out facility which has been duly transferred to H-Energy Gateway Private limited (HEGPL) vide MoEF&CC letter dated 3rd March, 2015.
- (ii) The facility is being developed by H-Energy. Pre-engineering for the LNG Terminal is already over and the Jetty construction has already started in line with the original approval. However, construction of the land based Terminal including the storage tankages would take at least 6 to 7 years to complete, whereas the construction of the Jetty is nearing completion. In order to put the idle infrastructure to productive use and to serve the country by alleviating the immediate energy needs, we are proposing to start 'Early Production Facility' by chartering and deploying a modified LNG vessel as FLOATING STORAGE AND



RE-GASSIFICATION UNIT (FSRU) at the LNG Jetty until the land based terminal is ready.

- (iii) As stated above, FSRU is a LNG vessel with facilities for receipt of liquid LNG cargo through 'ship-to-ship' transfer using flexible hoses and on-board regasification of the same. The FSRU is a self-sufficient unit with storage and on-deck re-gasification facilities and would be able to handle about 6 million metric tons per annum. The shore side would require minimum infrastructure for receiving the natural gas (through high pressure natural gas unloading arms), metering it and sending it out using pipe lines (tie in pipe line to GAIL network at Dabhol). This sending out pipe line known as tie-in pipe line is also likely to be completed along with jetty facilities. Competent Authority (CA) for acquisition of ROU under PMP Act has already been appointed. Necessary approvals (such as PNGRB, MPCB, CRZ and PESO) are already in place for the tie-in pipeline.
- (iv) In this regard, HEGPL has applied for amendment in the earlier CRZ and environmental clearance (EC) issued by MoEF&CC, New Delhi. The proposal was considered in the 10th EAC meeting of Infra-2 and additional ToR were issued vide letter dated 28th November, 2016. As per ToR, the relevant study reports were prepared and submitted to State Coastal Zone Management Authority (MCZMA). The recommendation of MCZMA is duly obtained vide their letter no. CRZ 2017/CR 147/TC4 dated 3rd October, 2017. The certified compliance report on the environmental conditions stipulated in the earlier EC has been issued by the Regional Office (RO), MoEF&CC, Nagpur vide letter dated 12th April, 2017.
- (v) CRZ recommendation along with the study reports are duly submitted for appraisal. It is requested to amend the EC and CRZ Clearance (19th December, 2013 and transferred thereafter on 3rd March, 2015) to operate the FSRU for the interim period till the land based facilities get ready. This would help putting the idling infrastructures in to productive use at the same time establishing the energy chain.
- (vi) The proposed amendments are as follows:

S. No.	Approved as per EC & CRZ letter dated 19.12.2013	Proposed for Early Production Phase	Remarks
1.	LNG import by LNG Carriers	No change	-
2.	LNG unload to 3 shore based LNG tanks	Floating LNG storage on deck, regasification & send out vessel	FSRU will be moored to the LNG jetty till shore based tanks are ready.
3.	LNG transfer from LNG Carrier to tanks	LNG transfer from LNG Carrier to FSRU by flexible cryogenic hoses.	Shorter cryogenic piping
4.	LNG jetty with 4 LNG unloading hard arms + 1 Vapour return Arm	2 High Pressure (HP) Natural Gas (NG) Arms	HPNG arms will be removed once LNG arms are installed after FSRU is decommissioned.
5.	HPNG send out (coupled with metering) from shore based open rack vaporizers	No change, except NG will be sent from FSRU by 30" NG pipeline	-

3. The EAC after being satisfied with the submission of the Project Proponent recommended to amend the EC&CRZ Clearance issued vide dated 19th December, 2013 (and transferred thereafter on 3rd March, 2015) to operate the FSRU as per details given in para 2 (vi) above for the interim period till the land based facilities get ready with some additional conditions. Based on the information furnished by the Project proponent and the EAC recommendations, the Ministry amend the EC&CRZ Clearance issued vide dated 19th December, 2013 (and transferred thereafter on 3rd March, 2015) to operate the FSRU as per details given for the interim period till the land based facilities get ready with following additional conditions:

- (i) All the recommendations and conditions specified by Maharashtra Coastal Zone Management Authority vide letter no. CRZ-2017/CR-147/TC-4 dated 03.10.2017 shall be complied with.
- (ii) Construction activity shall be carried out strictly according to the provisions of CRZ Notification, 2011. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.
- (iii) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.
- (iv) Automatic Detection System and Emergency shut off system shall be provided for LNG gas leak near pipeline connection from FSRU to subsea pipeline.
- (v) Thick greenbelt shall be developed in the periphery of the on land facility.
- (vi) No open discharge of sewage or oily waste shall be done in marine water. All liquid containing oil shall pass into sea only via oil separation system. The FSRU shall be equipped with centrifugal type bilge oil/ water separator that reduce oil in the discharge to 10 ppm. Sewage generated will be treated in the STP.
- (vii) All the recommendations mentioned in the rapid risk assessment report, disaster management plan and safety guidelines shall be implemented.

4. All the other conditions contained in the Environmental and CRZ Clearance Letter No. 10-17/2006-IA.III dated 19th December, 2013 (and transferred thereafter on 3rd March, 2015) remains the same.

5. As per the Ministry's Office Memorandum F.No.22-65/2017-IA.III dated 1st May 2018, the project proponent is required to prepare and implement Corporate Environment Responsibility (CER) Plan. As per para 6(II) of the said O.M. appropriate funds shall be earmarked for the activities such as infrastructure creation for drinking water supply, sanitation, health, education, skill development, roads, cross drains, electrification including solar power, solid waste management facilities, scientific support and awareness to local farmers to increase yield of crop and fodder, rain water harvesting, soil moisture conservation works, avenue plantation, plantation in community areas. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated

as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

6. This issues with the approval of Competent Authority.


(Kushal Vashist)
Director

Copy to:

- 1) The Principal Secretary, Environment Department, Government of Maharashtra, 15th Floor, New Administrative Building, Mantralaya, Mumbai - 400 032.
- 2) The APCCF (C), MoEF&CC, Regional Office (WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur - 440001.
- 3) The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
- 4) The Chairman, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th floor, Opp. Cine Planet, Sion Circle, Mumbai - 400 022.
- 5) Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.
- 6) Guard File/ Record File/ Notice Board.


(Kushal Vashist)
Director