

Government of the People's Republic of Bangladesh
Department of Environment
www.doe.gov.bd
Head Office, Paribesh Bhavan
E-16 Agargaon, Dhaka-1207

Memo No: 22.02.0000.018.72.014.17. 20

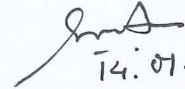
Date: 14/01/2018

Subject: Environmental Clearance for Proposed Offshore LNG Floating Storage and Re-Gasification Unit (FSRU) moored at STL (Submerged Turret Loading) Project at Maheshkhali under Cox's Bazar to Build up Summit LNG Terminal Co. (Pvt.) Ltd.

Ref: Your application dated 04/12/2017.

Please refer to your letter of 04/12/2017 on the captioned subject, I have the pleasure to award the Environmental Clearance as well as the approval of Environmental Impact Assessment (EIA) Report to the proposed project : Offshore LNG Floating Storage and Re-Gasification Unit (FSRU) moored at STL (Submerged Turret Loading) Project at Maheshkhali under Cox's Bazar to Build up Summit LNG Terminal Co. (Pvt.) Ltd.

A copy of the said Environmental Clearance Certificate is attached herewith for your kind information and necessary action at your end.


14.01.2018

(Syed Nazmul Ahsan)
Director (Environmental Clearance)
Phone # 8181673

General Manager (Planning)
Gas Transmission Company Limited (GTCL)
Plot No. F-18/A, Sher-E-Bangla Nagar Administrative Area, Agargaon
Dhaka-1207.

Copy Forwarded to :

- 1) PS to the Secretary, Ministry of Environment and Forests, Bangladesh Secretariat, Dhaka.
- 2) Director, Department of Environment, Chittagong Regional Office, Chittagong.
- 3) Deputy Director/ Officer-In-Charge, Department of Environment, Cox's Bazar District Office, Cox's Bazar.
- 4) Assistant Director, Office of the Director General, Department of Environment, Head Office, Dhaka.

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Environmental Clearance Certificate

Section 12 of the Environment Conservation Act, 1995 (Amended 2002)

Clearance Certificate Number: 20

File number: 22.02.0000.018.72.014.17

Clearance Certificate Issue Date: 14 January, 2018

Renewal date not later than: 13 January, 2019

A. Clearance Certificate Type

Environmental Clearance Certificate

B. Clearance Certificate Holder

General Manager (Planning)

Gas Transmission Company Limited (GTCL)

Plot No. F-18/A, Sher-E-Bangla Nagar Administrative Area, Agargaon
Dhaka-1207.

C. Premises to which this Clearance Certificate Applies

The Project site location of Summit FSRU terminal is in the South East of Bangladesh, driving distance approximately 380 km from Dhaka, 90 km south of the port city Chittagong. The site is on the Bay of Bengal. The project coordinate has already fixed up at 21°33'20.46''N; 91°48'58.22''E. For evacuation of re-gasified gas already Maheshkhali-Anwara 30 inch dia×91 km long gas transmission pipeline installed and 42 inch×79 km Maheshkhali-Anwara parallel gas transmission pipeline is being installed by GTCL.

D. Activities for which this Clearance Certificate Authorizes and Regulates

The said project includes construction and operation of following components:

- Submerged/ Directional Turret Loading FSRU.
- Floating Storage and Regasification Unit (FSRU) with storage capacity of 1,38,000 m³ to 1,70,000 m³.
- Regasification onboard FSRU for send out of RLNG with 600 MMSCFD as peak capacity.
- High Pressure 24'' subsea re-gasified LNG (RLNG) pipeline of 3-8 km.

E. Terms and Conditions for Environmental Clearance Certificate

1. **Limit Condition for Discharges to Air and Water:** The Environmental Clearance Certificate must comply with schedule 2 and 10, rule 12 of the Environment Conservation Rules, 1997 (Annex-I & II).
2. **Noise Limit:** The Environmental Clearance Certificate must comply with the Noise Pollution (Control) Rules, 2006

In case of non-coverage of ECR 1997, the World Bank Environment, Health and Safety Guideline shall be adhered to.

3. Operating Conditions:

- 3.1 Activities must be carried out in a competent manner. This includes:
 - (a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
 - (b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.
- 3.2 All plant and equipment installed at the premises or used in connection with the Environmental Clearance activity:
 - (a) must be maintained in a proper and efficient condition; and
 - (b) must be operated in a proper and efficient manner.
- 3.3 Construction works shall be restricted to day time hours so as to avoid/mitigate the disturbance of local lives as well as implementation schedules of the works shall be notified in advance to nearby residents.
- 3.4 Storage area for chemicals and other construction materials shall be carefully selected to avoid disturbance of the natural drainage. To avoid soil contamination at labour camp and work-site chemical, cement and petroleum derivatives shall be handled cautiously.
- 3.5 Sufficient number of drainage facilities shall be installed properly to ensure sufficient drainage capacity.
- 3.6 During site preparation, piling work, construction of land embankments, project approach roads and temporary access roads, top soil shall be kept aside and shall be restored after completion of the said activities.
- 3.7 The open areas that are grasslands can be used for construction but with appropriate safeguards to maintain material and dump sites from contaminating river/sea waters.
- 3.8 This shall be ensured that soil is obtained through dredging. The construction equipment and vehicles shall be cleaned regularly.
- 3.9 Re-vegetation and replanting shall be undertaken if rehabilitation works involve extensive vegetation clearance.
- 3.10 Vegetation clearance shall be minimizing at the construction phase as to minimize soil erosion. Soils for embankments shall be properly tested and compacted to ensure stability.
- 3.11 Soil erosion caused by removal of vegetative cover and excavated loose soil shall be checked through repopulation with local vegetation as soon as possible; loose soil shall be covered and stored away from the edge of the river/sea.
- 3.12 Proper construction practices shall be followed that minimize loss of habitats and others species including fish breeding, feeding and nursery sites.

- 3.13. Necessary steps shall be taken to protect flooding of local areas due to restricted flow at the project sites.
- 3.14 Proper and adequate sanitation facilities shall be ensured in labor camps throughout the proposed project period.
- 3.15 In order to control noise pollution, vehicles & equipment shall be maintained regularly; working during sensitive hours and locating machinery close to sensitive receptor shall be avoided.
- 3.16 No solid waste can be burnt in the project area. An environment friendly solid waste management should be in place during whole the period of the project in the field.
- 3.17 Proper and adequate on-site precautionary measures and safety measures shall be ensured so that no habitat of any flora and fauna would be demolished or destructed.
- 3.18 Any heritage site, ecological critical area and other environmentally and/or religious sensitive places shall be avoided during project construction phase.
- 3.19 To control dust vehicles and equipment to be used for this project shall be maintained properly, water trucks shall be used, stockpiles to be located away from sensitive receptors and vehicle speed limits shall be enforced.
- 3.20 Resettlement plan should be properly implemented and people should be adequately compensated, where necessary.
- 3.21 Construction material should be properly disposed off after the construction work is over.
- 3.22 Climate Change effects and maximum storm surge height shall have to consider at the design phase.
- 3.23 No activity of cutting/razing/dressing of hill or hilly land is endorsed under this clearance without due permission/clearance of the concerned authority of the Government of Bangladesh.
- 3.24 Appropriate permission would be required to obtain from the forest department in favor of cutting/felling of any plant/tree/sapling forested by any individual or government before doing such type of activity.
- 3.25 The mitigation measures described in the Environmental Management Plan (EMP) included in the EIA report shall strictly be implemented and kept functioning on a continuous basis.
- 3.26 Erosion, accretion, change of river/sea morphology and undue interventions and activities within the proximity of the project site shall be monitored during operation period.

4.1 Monitoring and Recording Conditions:

- 4.1.1 The results of any monitoring required to be conducted by this Clearance Certificate must be recorded.
- 4.1.2 The following records must be kept in respect of any samples required to be collected for the purposes of this Clearance Certificate:
 - (a) the date(s) on which the sample was taken;
 - (b) the time(s) at which the sample was collected;
 - (c) the point at which the sample was taken; and
 - (d) the name of the person who collected the sample.

4.2 Requirement to Monitor Concentration of Pollutants Discharged

For each monitoring, the Clearance Certificate holder must monitor (by sampling and obtaining results by analysis) the following parameter: water flow, water quality, air quality, noise, the surrounding areas for spread of invasive species, the changes in aquatic habitats before, during and after construction, fish catch during and after construction.

5. **Reporting Conditions:** Environmental Monitoring Reports shall be made available simultaneously to Head quarters and Cox' Bazar District office of the Department of Environment on a quarterly basis during the whole period of the project.
6. **Notification of environmental harm:** The Clearance Certificate holder or its employees must notify the Department of Environment of incidents causing or threatening material harm to the environment as soon as practicable after the person becomes aware of the incident.

F. RECORDING OF POLLUTION CONTROL:

The certificate holder must keep a legible record of all complaints made to the certificate holder or any employee or agent of the certificate holder in relation to pollution arising from any activity to which this Environmental Certificate applies. The record must include details of the following:

- (a) the date and time complaint;
- (b) the method by which the complaint was made;
- (c) any personal details of the complaint which were provided by the complaint or, if no such details were provided, a note to that effect;
- (d) the nature of the complaint;
- (e) the action taken by the certificate holder in relation to the complaint, including any follow-up contact with the complaint; and
- (f) if no action was taken by the certificate holder, the reasons why no action was taken.

The record of a complaint must be kept for at least 4 (four) years after the complaint was made. The record must be produced to any authorized officer of the DOE who asks to see them.

G. VALIDITY OF THE CLEARANCE CERTIFICATE:

This Environmental Clearance is valid for one year from the date of issuance and the Project authority shall apply for renewal to the Cox' Bazar District office of DOE at Cox' Bazar with a copy to Head Office of Dhaka at least 30 (thirty) days ahead of expiry.

Violation of any of the above conditions shall render this clearance void.


14.01.2018

(Syed Nazmul Ahsan)
Director (Environmental Clearance)