

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

Memo No: DOE/Clearance/5150/2012/ 244

Date: 12/11/2012

Subject: Environmental Clearance for Dhaka-Chittagong National Highway No. 1 Bridge Construction and Rehabilitation Project.

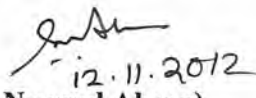
Ref: Your application dated 13/09/2012 and 11/10/2012.

Dear Sir,

Please refer to your letter of 13th September 2012 and 11th October 2012 on the captioned subject, I have the pleasure to convey the approval of Environmental Clearance to the proposed project : Environmental Clearance for Dhaka-Chittagong National Highway No. 1 Bridge Construction and Rehabilitation Project.

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

Yours Sincerely,


(Syed Nazmul Ahsan)

Deputy Director (Environmental Clearance)
and
Member-Secretary
Environmental Clearance Committee

✓ **Project Director**

Dhaka-Chittagong National Highway No. 1 Bridge Construction and Rehabilitation Project
Bridge Management Wing
Roads & Highways Department
Sarak Bhaban, Ramna, Dhaka

Copy Forwarded to :

- 1) Private Secretary to the Hon'ble Secretary, Ministry of Environment and Forests, Bangladesh Secretariat, Dhaka.
- 2) Director, Department of Environment, Dhaka/Chittagong Division, Dhaka/Chittagong.
- 3) Staff Officer to the Director General, Department of Environment, Head Office, Dhaka.

Government of the People's Republic of Bangladesh
Department of Environment
Head Office, E-16 Agargaon
Dhaka-1207

Environmental Clearance Certificate

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

Clearance Certificate Number: 244

File number: DOE/Clearance/5150/2012

Clearance Certificate Issue Date: 12 November 2012

Renewal date not later than: 11 November 2013

A. Clearance Certificate Type

Environmental Clearance Certificate

B. Clearance Certificate Holder

Project Director

Dhaka-Chittagong National Highway No. 1 Bridge Construction and Rehabilitation Project

Bridge Management Wing

Roads & Highways Department

Sarak Bhaban, Ramna, Dhaka

C. Premises to which this Clearance Certificate Applies

Kanchpur Bridge over Shitalaksha River under Narayanganj District, Meghna Bridge over Meghna River Between Sonargaon, Narayanganj & Gazaria, Munshiganj and Gumti Bridge over Meghna-Gumti River Between Gazaria, Munshiganj & Daudkandi, Comilla District.

D. Activities for which this Clearance Certificate Authorizes and Regulates

- (i) Construction of 396.5 meter long 4-lane single deck 2nd Kanchpur main bridge with end facilities over the river Shitalaksha at Shimrail and Kanchpur under Narayanganj District, approach roads (300 meter at Shimrail site and 300 meter at Kanchpur site) and rehabilitation of existing Kanchpur bridge at same location.
- (ii) Construction of 930 meter long 4-lane single deck 2nd Meghna main bridge with end facilities over the river Meghna Between Sonargaon, Narayanganj and Gazaria, Munshiganj, approach roads (500 meter at Sonargaon site and 500 meter at Gazaria site) and rehabilitation of existing Meghna bridge at same location.
- (iii) Construction of 1410 meter long 4-lane single deck 2nd Gumti main bridge with end facilities over the river Meghna-Gumti Between Gazaria, Munshiganj & Daudkandi, Comilla, approach roads (700 meter at Gazaria site and 300 meter at Daudkandi site) and rehabilitation of existing Meghna bridge at same location.

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 culverts, bridges and other drainage facilities shall be installed properly to ensure sufficient cross drainage capacity.
- 3.6 During site preparation, piling work, construction of land embankments, bridge 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 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.
- 3.12 Proper construction practices shall be followed that minimize loss of habitats and 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 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.
- 3.23 Erosion, accretion, change of river morphology and undue interventions and activities within the proximity of the bridge 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 Dhaka & Chittagong Divisional offices 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.

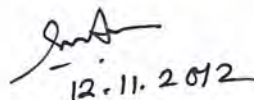
The record of a complaint must be kept for at least 4 (four) years after the complaint was made. The record must be produced to any authorized officer of the DOE who asks to see them.

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 Head Office of DOE with a copy to Dhaka & Chittagong Divisional offices of DOE at Dhaka and Chittagong at least 30 (thirty) days ahead of expiry.

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

This Environmental Clearance Certificate has been issued with the approval of the appropriate authority.



12.11.2012

(Syed Nazmul Ahsan)
Deputy Director (Environmental Clearance)
and
Member Secretary
Environmental Clearance Committee