

**GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH
MINISTRY OF LOCAL GOVERNMENT RURAL DEVELOPMENT AND
COOPERATIVES
LOCAL GOVERNMENT ENGINEERING DEPARTMENT
ADDITIONAL FINANCING FOR RURAL TRANSPORT IMPROVEMENT
PROJECT-II**

**TERMS OF REFERENCE (TOR)
FOR
SR. ENVIRONMENTAL SPECIALIST UNDER ADDITIONAL FINANCING
FOR RTIP-II (Package No. AF-S3.1)**

CREDIT NO. 6327-BD

**RTIP-II, LGED BHABAN, LEVEL-11, AGARGAON, SHER-E-BANGLA
NAGAR, DHAKA-1207, BANGLADESH**

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TERMS OF REFERENCE FOR ENGAGEMENT OF SENIOR ENVIRONMENTAL SPECIALIST (AF-S3.1)

1. BACKGROUND

The People's Republic of Bangladesh received a credit from the International Development Association (IDA) in 2012 for the Second Rural Transport Improvement Project (RTIP-II). This recognition has been successfully being implemented since then by the Local Government Engineering Department (LGED) under Local Government Division (LGD) of the Ministry of Local Government, Rural Development and Co-operatives (MLGRD&C). RTIP-II is aimed to improve and maintain/rehabilitate rural transport related infrastructure including inland water transport in 26 districts, covering mainly eastern parts of Bangladesh (excluding Chittagong Hill Tracts). The total project cost was estimated to be about US \$417 million with IDA credit facilities of about US\$ 300 million and the GoB contribution of US\$ 117 million.

In 2017, Bangladesh has experienced widespread, devastating and prolonged flooding due to the extensive rainfall recorded from April to October as well as due to excessive water flow from the upstream rivers in India disrupting people's normal life and damaging the properties. The flood resulted in interruption in the transportation network of Bangladesh damaging numerous LGED roads, bridges and culverts constructed and maintained under RTIP-II and other projects. This circumstance needs urgent rehabilitation and maintenance of rural infrastructures in order to support the smooth connectivity of road network in the rural area. As a result, IDA and GoB decided to come forward with additional financing under RTIP-II to rehabilitate/maintain the damaged roads with an aim to improve rural accessibility in the 18 districts out of 26 RTIP-II project districts in Bangladesh. These districts are Pabna, Sirajgonj, Tangail, Dhaka, Manikgonj, Gazipur, Narayanganj, Narsingdi, Mymensingh, Jamalpur, Sherpur, Netrokona, Kishoregonj, Munshigonj, Sylhet, Habiganj, Sunamgonj and Moulvibazar. The total cost of RTIP-II (Additional Financing) is, therefore, estimated at about US\$170 million (US\$100 million from IDA and the remaining US\$70 million from GoB funding).

These Term of References (ToR) intends to procure Sr. Environmental Specialist, an Individual Consultant, with a view to assist PMU on environmental screening, impact assessment, preparation, and supervision of Environmental Management Plans (EMP), provide capacity building support to the field level staff of LGED and contractors etc.

2.PROJECT COMPONENTS

The project will include three components:

Component A - Accessibility Improvement: Climate-Resilient Rural Roads Rehabilitation. This sub-component consist of civil works to support climate-resilient rehabilitation for about 1,433 km of the core network of rural roads under UZR and UNR categories in eighteen (18) districts that's are damaged from floods and heavy rains in . No land acquisition is required due to project design (e.g. no roads widening, geometrical corrections, etc.). There might be temporary use of private or public land by the contractors due to their construction method and the land will be taken on commercial lease term by the contractors using willing buyer and willing seller method. The project's environmental and social management plan will have specific guidance on the use of land

by the contractors. In any case, temporary use of land on commercial lease-term shall be minimized and the related compensation/rent shall be fully born by Contractors. There won't be any land acquisition under the 1st year work program. This sub-component will include consultancy services on: (a) cost-effective climate-resilient engineering designs and related surveys and investigations; (b) supervision of civil works and independent quality monitoring; and (c) project performance audit.

Component B - Institutional Strengthening, Capacity Building and Governance Enhancement: This sub-component will finance the PMU incremental cost, equipment to support PMU's daily project management activities, study tour for LGED/ PMU staff to other countries who have experiences in mainstreaming climate-resilience into the rural road asset management. Further capacity building for the Central Road Safety Unit (CRSU) and Geographical Information System (GIS) Section of ICT Unit within LGED, preparation of necessary guidelines/documents on socio-environment & climate change issues and training for sector staff with regards to sustainable road asset management, including PBMC contracts, will also be financed under this sub-component.

Component C - Rural Transport Safety: This is to scale up activities that have been developed and implemented under the last two generations of the Bank-financed rural transport projects. To enhance traffic safety, this component will undertake the following actions. The first action is to expand local accident data collection at Upazila and Union levels from the pilot eight districts to eighteen districts under AF. The collection of data will include at least the following parameters: type (car, bus, motor cyclist, cyclist, and pedestrian), timing and place of road accidents, number of fatalities, etc. All these parameters will be disaggregated by sex and age group. This approach will allow the program to help highlight the relative vulnerabilities across gender, age, type of user and locations from which measures to prevent/ reduce accidents can be proposed and implemented. The second action is to develop a road safety campaign. This campaign will address private as well as public transport users and cover all modes of transport and user groups (male, female, children, elderly). For instance, activities undertaken under this action could be the campaigns relating to the helmet wearing for motorbike riders, broader road safety program for school children ("Safe Journey to School") as well as for women, who are however less familiar with public transportation and thus face a high risk of increased vulnerabilities and mortalities. This campaign shall be implemented in all schools and communities that have the project roads passing through. The third action undertaken by the project will be conducting road safety audits for all roads rehabilitated under AF. These audits will take into account safe and secure transportation for women aspects, in addition to the engineering consideration. The last action relating to this component is the institutionalization of an integrated rural transport safety program, especially under the scenario of increasing both number of vehicles and travel speed in Bangladesh's rural areas. This will entail: (i) approval for Road Safety Audit guidelines and manual that have been produced under the parent project; (ii) regulate the road safety audit as a mandatory requirement throughout the roads life (planning, design, implementation, operations and maintenance); and (iii) regulate the road safety data collection for all LGED rural transport network with linkage to the vehicle registration under police's database.

3.OBJECTIVE OF CONSULTING SERVICES

The major objectives of the consultancy service under this Terms of Reference (TOR) are to assist PMU on environmental screening and categorization of the sub projects, prepare impact assessment, as required by the EMF and preparation of Environmental Management Plans (EMP) & associated reports and also coordinate with the district/upazila level officials of LGED to implement the project ensuring compliance with the Act/ Policies / Guidelines of the Government of Bangladesh (GoB) and environmental regulations of the World Bank.

4.SCOPE OF SERVICES

General Requirements

In accordance with the Act / Rules & Regulation / Guidelines/ Operational Directives (ODs) / Operational Policies (OPs)/ Safeguard Policies of the Government of Bangladesh and the World Bank, the Sr. Environmental Specialist shall carry out his tasks with accepted professional standards, utilizing sound international engineering and economic practices. The Consultant shall deliver timely sound and diligent services.

The Consultant will carry out the following main tasks but not necessarily be limited to:

- The Consultant is expected to have in-house capacity to prepare EA, to advise on and to supervise the implementation of the EMF and the EMPs including making the decisions regarding environmental categorization of the sub-project, to assess the applicability of relevant ECP to the sub-projects, preparation of site-specific environmental designs and modifications to the mitigation and enhancement measures, as necessary, during the sub-projects' implementation.
- The Environmental Specialist shall primarily be responsible for providing technical assistance to the EMU, XEN, and Upazila Engineers.
- The prime duty of the Environmental Specialist would be to (i) review the screening and categorization of the sub-projects; (ii) prepare the EA, as required by the EMF; (iii) assist the XEN & AE to supervise the implementation or the EMP by the contractors; and (iv) ensure that day to day construction activities are carried out in an environmentally sound and sustainable manner.
- The Consultant reviews and clears all screening and environmental assessment reports.
- The consultant also reviews and updates Environmental Supervision Manual and Environmental Monitoring Checklist incorporating the rural road and bridge improvements, rural road and bridge maintenance and rehabilitation issues in the beginning of their contract to confirm the environmental supervision procedures and systems including inspection, monitoring and reporting mechanisms to be followed by each associated parties during the sub-project implementation.
- The Consultant assists LGED in quality control, monitoring, coordinating and implementation of EMF, supervising the measures necessary to mitigate the projects effects on the society and environment as outlined in the documents.
- The assistance will include review of social and environmental screening/assessment, plans and & budget and, where necessary, structuring and phasing implementation of the plans and identifying the specific agencies to be involved in the mitigation of social and

environmental protection activities, particularly in cases where NGO participation needs to be arranged and coordinated.

- The Consultant will conduct routine training on EA requirements for the LGED staff and Contractors. Keep liaison with Department of Environment (DOE) or other department for obtaining/renewing required clearance.
- The Consultant will assist PMU and the feasibility study team to develop EMF for next project preparation.
- Any other tasks assigned by the Project Director related to the assignment from time to time.

5.REPORTING AND KEY DELIVERABLES REQUIREMENTS

The reporting requirement shall be as per below:

- (i) **Quarterly Progress Reports:** The consultant shall furnish quarterly progress reports on progress of EMP and recommendation for solutions of problems in contract execution, if any, and the measures to overcome the constraints. The quarterly reports shall be factual and concise with recommendations for the subsequent quarter.
- (ii) **Assignment Completion Report:** The consultant shall prepare a comprehensive completion report. The report shall incorporate summaries of the environmental safeguard issues, mitigation measures, problems encountered and recommendations for future projects of similar nature to be undertaken by LGED. The report shall also contain final evaluation report of the construction and maintenance related aspect with respect to environmental issues.

Consultant shall include the self-appraisal in the report in compliance with WB requirements for project completion report of executing agencies, including detailed data and information gathered and recorded during the project implementation.

6.TIME SCHEDULE

Duration of the assignment will be 12(Twelve) months starting from January 2022.

7.Qualification and Experience of the Consultant

Applicants must have:

- Minimum Bachelor's degree in Environmental Science/Engineering/Civil Engineering or equivalent. Post graduate degree in environmental science/ engineering would get preference.
- The candidate should have at least 10 years of working experience related to preparation of environmental assessment (EA), integration of environmental and social issues in the design, implementation and operation of rural infrastructure projects. The candidate should have at least 3(three) years of experience in International Financial Institutes assisted projects. Experience in environmental management in construction and maintenance of rural road and bridge projects assisted by World Bank will be preferred.

Applicants should also have:

Fluency in (i.e. writing, reading and speaking) the contract language, which is English. In addition, he shall be computer literate regarding word processing and spread sheets, and other computer skills.

8.SUPPORT SERVICES

The cost for communications, stationery and other related services for the effective implementation of the assignment will be included as Reimbursable in the contract.

9. COUNTERPART SUPPORT

- The PMU will engage necessary counterpart officials to the Consultants;
- The PMU will provide the consultants with suitable office space, if available, only. LGED will provide project data and reports available with it to the consultant.
- Office furniture, hardware and software, lighting, electricity including consumption bill, communication and other consumables will be at the cost of the consultant.
- Any non-consumable items purchased under this consultancy package shall be handed over to LGED after completion of the contract.

10. INSTITUTIONAL ARRANGEMENTS

The consultant will work directly under the control and guidance of Project Director keeping liaison and coordination with Environmental Unit of LGED, and D&S consultants.