**Terms of Reference and Scope of Services**

**for**

**Assistant Engineer (ICT)**

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| **Package Name** | Services from Assistant Engineer (ICT), Individual Consultant |
| **Package Number** | Service No. BRWTP-S14/17 |
| **Assignment Duration** | 48 (forty eight) person-months |
| **Number of Positions** | 01 (one) |
| **Location of Assignment** | Project Implementation Office in Dhaka and Project Sites, Bangladesh |
| **Funding Source(s)** | IDA (Credit No. 5842-BD) |
| **Contracting Entity** | Project Director, Bangladesh Regional Waterway Transport Project-I, BIWTA |

**Background:**

The Government of the People’s Republic of Bangladesh (GoB) has received an SDR 254 million Credit from the International Development Association (IDA) – a member of the **World Bank Group** – for financing the cost of the Project- tilted “Bangladesh Regional Waterway Transport Project 1(Dredging in Chattogram-Dhaka-Ashuganj IWT Corridor along with associated linked routes and construction of terminal with allied infrastructure” (hereinafter titled “BRWTP-1”), being implemented by the Bangladesh Inland Water Transport Authority (BIWTA), and intends to apply part of the IDA Credit for procuring the services of an individual International Procurement Consultant for its Project Implementation Unit (PIU).

The development objective of the project is to improve transport efficiency, reliability and safety for passengers and cargo on priority inland waterways along the Chattogram-Dhaka-Ashuganj Inland Water Transport Corridor of Bangladesh. The project is also being implemented within the broader context of the BBIN/Eastern Corridor regional program which aims to facilitate the movement of passengers and cargo on multimodal transport networks for the benefit of traders, transporters, producers, passengers and communities in Bangladesh, Bhutan, India, and Nepal (BBIN).

The Project consists of three major components: (i) Improved Inland Waterway Navigation (Component 1) will include work to maintain and increase advertised depths and to delineate channel routes through provision of long-term navigation and utilizing the mechanism of performance based contracts (PBCs); (ii) Improved Services at Priority Inland Waterway Terminals and Landing Stations (Component 2) to support the development of two cargo terminals, four passenger terminals and 15 landing ghats (stations); and (iii) Institutional Capacity Development and Sector Sustainability (Component 3) comprising of a series of activities to support overall enhancement of the management systems and human resources capacity of BIWTA for modern, efficient, and high quality management of the IWT sector in line with international standards.

BIWTA, an autonomous body established under the Ministry of Shipping is the implementing agency of the Project and is responsible for its overall implementation, management and monitoring. BIWTA was set up for development, maintenance and operation of inland water transport and waterways in Bangladesh. Strategic management functions are performed by a Board of Directors which is headed by its Chairman – holding the rank of an Additional Secretary of the Government – and supported by senior officials of the Government of Bangladesh (GoB).

**Introduction:**

**The Project is centered on the main Dhaka-Chattogram IWT route, with branches to Ashuganj, Ghorashal and Barishal.**

The project comprises several components to improve the navigational routes through dredging and installation & maintenance of aids to navigation along the Dhaka-Chattogram IWT route, with link routes and select inland waterway ports and terminals, especially:

a) Capital and maintenance dredging, installation and operation of aids to navigation and construction and maintenance of Vessel Storm Shelters (VSS) and Idle Berthing Centers (IBC)

b) New General Cargo Terminals at Pangaon adjacent to existing Container Terminal and, the upgrade/modernization of General Cargo Terminal at Ashuganj;

c) New Passenger Terminal at Shasanghat and Chandpur and, upgrade/modernization of Passenger Terminals at Barishal and Narayanganj along with up-gradation of the DEPTC;

d) New construction / upgrade of 15 Landing Stations (launch ghats), four Vessel Storm Shelters, and two Idle Berthing Centers along Dhaka-Chattogram waterway.

**Objective of the Consultancy**

The objective of this consultancy is to assist the BIWTA Project Implementation Unit (PIU)for assisting in ICT assessment, reviewing designs, development, supervision and all ICT related supports in implementing the project e.g., ICT issues in development of inland river ports, inland waterway navigation activities, hydrographic surveying etc. under the BRWTP1 project.

**Scope of Work**

This assignment for the **Assistant Engineer (ICT)** who will work within the PIU and his/her specific tasks and responsibilities shall include but not be limited to:

* Assist the PIU for ICT assessment, reviewing ICT issues in designs, development and implementation of different components under the project
* Review all Project documents and assist the PIU to include the ICT component as cross cutting issues in construction methodologies and proposals and provide the technical support on AIS, Control Station, Server Station, Data processing and management etc. .
* Review and edit the Consultant’s/Contractor’s deliverables, progress reports and other relevant documents and guide the consultants for integration of ICT component as required.
* Supervise and validate invoices, bills, MBs etc. submitted by the consultants and include observations/findings prior submitting to his/her supervisor.
* S/he will be stationed at the PIU office in Dhaka with extensive field trips to supervise all ICT related issues in supply, development and construction of Goods, Works &Services to provide with all relevant field based service delivery ensuring qualitative and quantitative aspects;
* Assist to carry out analysing of project related data to help the decision making process of the management and thus to help for successful project implementation. .
* Liaise with concerned agencies/offices in connection with any project related issues.
* Any other activity instructed by his/her supervisor as deemed necessary for the interest of the project.

**Qualifications**

* At least Bachelor Degree in Engineering/Computer Science/ICT/IT Tele Communications or equivalent field from a recognized University
* Should have Five (5) years of relevant experience.
* Should have ICT related Project management and monitoring experience (As supporting role) in any international/Government organization. Experience in dredging or inland waterway sector will be an added advantage.
* Excellent writing, editing skills of technical reports /documents. Proficiency in English language is must for regular communications and technical writing.
* Must not be above 45years of age.

**Type & Duration of Contract**

The contract used for the proposed consulting services shall be standard Time-based contract. Duration of the contract will be 48 person-months subject to satisfactory performance.

**Reporting**

She/he will be reporting to the PIU Official as assigned by the Project Director, BRWTP1 project.