

## Terms of Reference – Surveyor

### A. Background

The Government of Assam plans to transform the quality of inland water transport services and integrate high quality passenger and vehicle ferry services into Assam's wider transport network. The Government of Assam (GOA) has received funding from the World Bank to support the Assam Inland Water Transport Project (AIWTP) which has led to the establishment of Assam Inland Water Transport Development Society (AIWTDS), under the existing Directorate of Inland Water Transport Assam, to implement the project. AIWTD Society seeks to engage Surveyors for planning, designing, & implementing navigational strategies.

### B. Key Responsibilities:-

- Terms of reference for conducting survey in shallow waters, with minimum under-keel clearance, rapid changes in depths with seasonal fluctuations; large-ranged tidal river. Surveyors will be required to work in adverse weather conditions and spend extensive time out on boats managing heavy measuring equipment.
- Utilization of specialized and advanced equipment on survey vessels to determine the geography of a body of water, including the depth and physical features of the body's floor. The Surveyor shall also take the data collected on survey vessels and transform them into hydrographic models, which can be used for a wide variety of purposes. The surveyor would also be required to dovetail the required information with the night navigation charts for preparation by IIT, Madras.
- Related administrative work in a government environment, handling small-scale tendering, and union negotiations.

### C. Qualification & Experience –

- Diploma in civil Engineering/B Tech/BE any branch and sailors/officers with Navy/Officer coast guard survey experience and with credentials from the National Society of Professional Surveyors or GIS Certification Institute will be preferable or certification from Navy or equivalent.
- A hydro graphic surveyor with minimum 5 years of working experience in inland waters will be given preference. Developed ENC charting solution for navigation in rivers using Hypack ENC Editor/preparation of electronic charts.

### D. Skills & Competencies -

- Knowledge on the handling of 55 metres (1100 tonnes) survey craft, fitted with Schottel propulsion system in such waters. Knowledge on MS class dredgers for recording surveys, chart preparations and maintenance of survey documents.
- Instruments: Single beam & multi beam echosounders, DGPS, RTK GPS and topographic equipment Auto levels, total station & RTK
- Software: Hypack (for single beam echo sounders), Auto CAD and E Survey CADD for data acquisition and processing.

**E. Period of Service**

The duration of the assignment will be initially for a period of 1[One] year with a provision of further extension till such time and as decided by the State Project Director, AIWTD Society.

**F. Age Criteria** – Not more than 50 years as on the date of application.

**G. Remuneration**

The consolidated remuneration will be Rs 1, 20,000/- for Officer's & Rs 75,000/- for sailors per month. The negotiated remuneration will be as above or 30% hike on the current remuneration or last drawn salary whichever is less. Depending on qualification, experience and competency of the candidate, the remuneration is negotiable.