

INLAND WATERWAYS AUTHORITY OF INDIA**(Ministry of Ports, Shipping & Waterways, Government of India)****A-13, Sector-1, Gautam Budh Nagar, NOIDA, U.P. -201301****Tel: (0120) 2527667, 2522969 Fax (0120) 2522969**Website: www.iwai.nic.in & <https://eprocure.gov.in/eprocure/app>**NOTICE INVITING E-TENDER****1. Introduction:**

Inland Waterways Authority of India (IWAI) invites online Tenders/Bids from reputed Consulting firms in two cover systems (Cover – I: Technical Bid and Cover – II: Financial Bid) for “**DETAILED HYDROGRAPHIC SURVEYS FOR VARIOUS NATIONAL WATERWAYS.**”

Critical Data sheet:

Interested parties may download the Tender document online from the website <https://eprocure.gov.in/eprocure/app> and IWAI’s website “www.iwai.nic.in” and are advised to pay INR 2,950/- including GST (Rupees Two Thousand Nine hundred fifty only) as the cost of Bid document deposited to IWAI fund.

Document download start date	22.012025 at 1000hrs
Last date of submission of pre-bid queries	30.01.2025 up to 1500 hours
Pre-bid meeting	31.01.2025 at 1600 hrs
Bid Submission Start Date	10.02.2025 at 1000hrs
Bid Submission Last Date	17.02.2025 up to 1500 hrs
Bid Opening date	18.02.2025 at 1500 hrs
Cost of tender document	Rs 2500/- + 18 % GST = Rs 2,950/-

IWAI plans to *carry out the detailed hydrographic surveys in the following NWs*

The details of Survey areas are as follows:

Schedule A - Maharashtra

S. No.	NW	Name of the River	EMD (in Lakhs)
1.	NW-10	Amba River	

2.	NW-28	Dabhol creek-Vashishti River	2.22
3.	NW- 53	Kalyan-Thane-Mumbai Waterway, Vasai Creek and Ulhas River	

Schedule B - Odisha

S. No.	NW	Name of the River	EMD (in Lakhs)
1.	NW-64	Mahanadi River	0.94

Schedule-C - Gujarat

S. No.	NW	Name of the River	EMD (in Lakhs)
1.	NW-73	Narmada River	2.56
2.	NW-100	Tapi River	

Schedule D - Goa

S. No.	NW	Name of the River	EMD (in Lakhs)
1.	NW-71	Mapusa River-Moide River	0.12

Schedule E - Karnataka

S. No.	Name of the waterway	Name of the River	EMD (in Lakhs)
1.	NW-51	Kabini River	1.43
2.	NW-90	Sharavati River	

** If the bidder wishes to quote for more than one schedule, then consolidated EMDs for all such schedules should be submitted.*

The detail scope of work shall be as below:

- a) The firm shall carry out Hydrographic Survey i.e. Cross-Sectional as per the requirement based on GIHS and International Hydrographic Organization (IHO) Special Publication(SP) 44, edition 2008

(https://www.iho.int/iho_pubs/standard/S-44_5E.pdf) for survey under Special Order as specified with full sea floor insonification. The detailed Hydrographic survey is to be carried out by using Automated Hydrographic Survey System (using digital Multi beam Echo sounder for depth measurement and insonification or with single beam with side scan deployment and disproving search as discussed /specified, DGPS Beacons Receivers for position fixing and Hypack max or equivalent software for data logging). The survey is to be conducted on WGS-84 datum.

- b)** The horizontal control is to be made from either one of the following methods:-
- i.) Transfer of positions from GTS Bench Marks or position established at bridges, barrages, Railway Stations etc.
 - ii.) Using RTK GPS with minimum 24 hours observations at some permanent platform/base.
 - iii.) DGPS receiving direct Satellite corrections or receiving DGPS corrections from Beacons.
 - iv.) Further the positioning has to be refined with Very Long Baseline Interferometry (VLBI)
- c)** The vertical control is to be established with respect to the chart datum/ sounding datum from the following methods
- i.) Chart datum/ sounding datum already established by Port Authorities, Central Water Commission/ State Irrigation Department and at their gauge stations along the river/canal.
 - ii.) Standard method shall be adopted for transfer of datum in rivers. For tidal reaches standard transfer of datum as per Admiralty Manual shall be adopted.
 - iii.) Other Terms of Reference for the survey work are as given below: -
- d)** CURRENT VELOCITY AND DISCHARGE MEASUREMENT The current velocity and discharge to be measured with the help of ADCP and is to be observed once a day during the survey period.
- e)** SURVEY CHART AND REPORT PREPARATION : The survey chart is to be prepared on a scale of 1: 500
- f)** The chart shall also be suitably updated with prominent land features from the Topo-sheets/site.
- g)** After processing of data in all respect and after preparation of charts, Consultant has to prepare the navigability report of waterway in respect of availability of depths, available in the stretch. Navigability report of waterway would be part of the draft and final report.
- h)** DATA SUBMISSION: All raw data and processed data of Automatic Hydrographic Survey System are required to be submitted along with bills and reports.
- i)** All position data of ground features, waterway structures and underwater detail of images collected using Side scan sonar are to be submitted in both hard copies and soft copies. The firm should have adequate

inventory(in house/leased) of hydrographic survey equipment's (detailed list as a proof has to be enclosed/ specified) comprising of following:

Single Beam Echosounder	ADCP
Multi Beam Echosounder	Sub Bottom Profiler
DGPS RTK	Current Meter Profiler
Side Scan Sonar	Sound Velocity Profiler
ATG/Water level gauge	
Data Acquisition and Processing Software e.g. HYPACK, HYSWEEP, Hydropro, Qinsy, PDS, EIVA etc.	

- j) The detailed Terms of Reference (ToR) / scope of the work shall be as in the Section-VI of this document.

2. Method of Selection:

Bidder will be selected under Least Cost Based Selection (LCS) and procedures described in this Tender document.

3. Clarifications

Clarification / Query, if any, on the tender document can be submitted to:

Hydrographic Chief,

Inland Waterways Authority of India,

(Ministry of Ports, Shipping and Waterways, Govt. of India)

A-13, Sector – 1, Noida-201301, U. P.

Tel. Nos. 0120 - 2527667

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E-Mail: hc.iwai@nic.in

Website: <http://www.iwai.nic.in>

4. IWAI reserves the right to accept or reject any or all Tenders without assigning any reason and no correspondence shall be entertained in this regard.

Hydrographic Chief

IWAI, Noida