



বাংলাদেশ অভ্যন্তরীণ নৌপরিবহন কর্তৃপক্ষ  
BANGLADESH INLAND WATER TRANSPORT AUTHORITY

Website: [www.biwta.gov.bd](http://www.biwta.gov.bd)

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বিআইডব্লিউটিএ ভবন, ১৪১-১৪৩, মতিঝিল বাণিজ্যিক এলাকা, পোস্ট বক্স ৭৬, ঢাকা-১০০০, বাংলাদেশ

BIWTA BHABAN, 141-143, MOTIJHEEL C/A, POST BOX 76, DHAKA-1000, BANGLADESH

Department of Hydrography



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Request for Expression of Interest (EOI)

1	Ministry/Division	Ministry of Shipping	
2	Agency	Bangladesh Inland Water Transport Authority (BIWTA)	
3	Procuring Entity Name	<b>Md. Alfaz Uddin, Joint Director (Tide)cc &amp; Project Director</b> , Department of Hydrography, Bangladesh Inland Water Transport Authority (BIWTA).	
4	Title of the Services	Determination of Standard High Water Level (SHWL) and Standard Low Water Level (SLWL) and Reclassification of Inland Waterways in Bangladesh.	
5	Procuring Entity District	Dhaka	
6	Expression of Interest for Selection of	Consulting Firms	
7	Invitation Ref no.	18.11.0000.354.14.002.21	
8	Date	30/12/2021	
KEY INFORMATION			
9	Procurement Method	Quality and Cost Based Selection (QCBS)	
FUNDING INFORMATION			
10	Budget and Source of Funds	Government of Bangladesh (GoB)	
11	Development Partners	Not Applicable	
PARTICULAR INFORMATION			
12	Project Code	2243454	
13	Project Name	Determination of Standard High Water Level (SHWL), Standard Low Water Level (SLWL) and Re-Classification of Inland Waterways in Bangladesh.	
14	EoI Publication Date and Time	31/12/2021; 12:00hrs.	
15	EoI Closing Date and Time	27/01/2022; 14:00hrs.	
16	EoI Opening Date and Time	27/01/2022; 14:30hrs.	
17	Place of EoI Submission	Office of the Project Director, Tide Section (3 <sup>rd</sup> floor), Department of Hydrography, Bangladesh Inland Water Transport Authority (BIWTA), BIWTA Bhaban, 141-143 Motijheel C/A, Dhaka-1000, Bangladesh.	
INFORMATION FOR APPLICANT			
18	Brief Description of Assignment	<p>The main objective of the study is to establish the waterway navigational datum maintaining a common reference level (Mean Sea Level) by studying the variation of the water levels and finding levels at 95% and 5% exceedance probabilities (Combining these results with Tidal reduction or addition) as well as Re-Classify the existing BIWTA's navigation routes and determine the actual horizontal and vertical clearances for bridges and other installations crossing the rivers.</p> <p>The specific objectives are:</p> <ol style="list-style-type: none"><li>1.To establish Standard High-Water Level (SHWL) and Standard Low Water Level (SLWL) values with the purpose of ensuring navigational safety considering all Gauge Station's (437 Water Level Stations);</li><li>2.To Re-Classify the navigation routes based on the present and future traffic demand, Vessels size, Draft and Channel width and hydro morphological condition of the rivers;</li><li>3.To find out present vertical and horizontal clearances of bridges and other installations which crosses rivers.</li><li>4.Re-determine the actual horizontal and vertical clearances for existing bridges and other installations over the rivers considering Standard High Water Level (SHWL), predict traffic growth up to the year 2100 for different vessel type and the future status of the BIWTA's navigation routes;</li><li>5. To Prepare a Draft Rules for Control of Construction/Installation along the Banks and Foreshore of the Waterways.</li><li>6.To develop a resourceful tool and MIS for hydrological data analysis;</li><li>7.Training for processing &amp; analyzing the data and update the SHW &amp; SLW levels would be helpful for BIWTA officer's sustainable capabilities to carry out the similar study in future;</li><li>8. Preparation of Inception, Interim, Draft Final and Final Reports of 100 Copies.</li></ol>	
19. Experience, Resources and Delivery Capacity Required			
<b>Name of the services</b>	<b>Equipment and software</b>	<b>Experience</b>	<b>Professionals</b>
Determination of Standard High Water Level (SHWL) and Standard Low Water Level (SLWL) and Re-Classification of Inland Waterways in Bangladesh.	ArcGIS Software, Oracle Software, RTK, Photogrammetry Workstation, Total Station, Digital Levelling Machine, Eco sounder, ADCP, Velocity meter.	<ol style="list-style-type: none"><li>1. The consultancy firm must have at least 12(twelve) years of experiences in the field of national database preparation and maintenance.</li><li>2. Guideline preparation for quality checking for spatial and tabular data and discrimination policy.</li><li>3. National DEM preparation and tool development for contour preparation.</li><li>4. Time series satellite images analysis</li><li>5. Competent consulting firms who has qualification in the aforementioned type of consulting services for hydrological and morphological analysis, statistical analysis, field survey (state of art technology, equipment &amp; skilled manpower), hydrological and hydrodynamic modelling in generating time series water level data at ungauged stations and morphological modelling in river.</li><li>6. National level database preparation of all rivers based on hydrological regions.</li><li>7. Survey for establishment of Bench mark and datum with respect to the national datum (Maintain 2<sup>nd</sup> order accuracy).</li></ol>	The consulting firm needs to deploy following experts and supporting staffs: <b>(1) Team Leader/ Senior Hydrologist/ River Engineer (2) Deputy Team Leader/ Senior Hydrologist (3) Electrical Engineer (4) Mid-Level Hydrologist (5) Junior Hydrologist (6) Morphologist/ Morphologic Modeller (7) Navigation Expert (8) Dredging Specialist (9) Traffic Assessment/ River Port Expert (10) Civil/Water Resource Engineer (11) Hydrodynamic Modeller (12) Tide Analyst (13) Legal Adviser (14) Web GIS Programmer (15) Survey Specialist (16) GIS Specialist (17) RS Specialist (18) GIS and RS Analyst (19) Data analyst (20) Junior Surveyor/ Technical Assistant.</b>

20	Other Details	Consultants are requested to provide information and documents (brochures, description of similar assignments, experiences, organogram/manpower set-up of the firm, Financial Capacity (Audit report, turnover last 2(Two) years at least 12.00 Crore) , qualification and experience of all experts and staffs, Valid trade licence, VAT Registration Certificate, updated income tax certificate etc. including that they are qualified to perform the services).
21	Association with foreign firm is	Not encouraged
PROCURING ENTITY DETAILS		
22	Name of Official Inviting EOI	Md. Alfaz Uddin
23	Designation of Official inviting Tender	Joint Director (Tide)cc & Project Director.
24	Address of Official Inviting Tender	Department of Hydrography, Bangladesh Inland Water Transport Authority (BIWTA), BIWTA Bhaban, 141-143 Motijheel C/A, Dhaka-1000, Bangladesh.
25	Contact details of Official Inviting Tender	Phone: +8802-2223354942, 01913733916 Email: <a href="mailto:md.alfaz1964@gmail.com">md.alfaz1964@gmail.com</a> ; Website: <a href="http://www.biwta.gov.bd">www.biwta.gov.bd</a>
26	The procuring entity reserves the right to accept or reject all applications.	

Sd/-  
(Md. Alfaz Uddin)  
Joint Director (Tide)cc & Project Director  
Department of Hydrography  
Bangladesh Inland Water Transport Authority (BIWTA)