



মুজিববর্ষের অঙ্গীকার
নদীরাখবোপরিষ্কার

Bangladesh Inland Water Transport Authority (BIWTA)
Office of the Project Director
Bangladesh Regional Waterway Transport Project 1 (BRWTP-1)
BSC Tower (Level-21), Plot # 2 & 3, RAJUK Avenue
Motijheel Commercial Area, Dhaka-1000, Bangladesh

Memo No. 18.11.0000.181.14.192.21.023

Date: 01 August 2021

ADDENDUM-3

(Amendment of the Bidding Documents)

Contract Package # BRWTP-G-2: Procurement of Hydrographic Survey and Related Equipment

Ref: Bidding Documents (ICB for Goods/ Single-Stage and Single-Envelope Bidding Process) issued vide Memo No. 18.11.0000.181.14.192.21.292 dated: 05 May 2021

In accordance with Instructions to Bidders (ITB) Clause ITB 8, the Bidding Documents are hereby amended as follows:

Reference of Bidding Documents (Section/ Clause)	Existing Context	Amended/ Modified Context
Section II: Bid Data Sheet, ITB Clause 22.1	The deadline for bid submission is: Date: 05 August 2021 Time: 14:00 Hours Bangladesh Standard Time(GMT+6 hours)	The deadline for bid submission is: Date: 12 August 2021 Time: 14:00 Hours Bangladesh Standard Time(GMT+6 hours)
Section II: Bid Data Sheet, ITB Clause 25.3	The bid opening shall take place at: Date: 05 August 2021 Time: 14:30 Hours Bangladesh Standard Time(GMT+6 hours)	The bid opening shall take place at: Date: 12 August 2021 Time: 14:30 Hours Bangladesh Standard Time(GMT+6 hours)

Other amendments/modifications in connection with Technical Specifications for Lot-1 made in the Bidding Documents are appended below:



Lot-01: Hydrographic Survey Equipment:

Item No. 01: Swathe Multi-Beam Echo Sounders		
Ser.	Original and/or Existing Context	Amended/ Modified Context
1.3	Swath Coverage At least 10 times of water depth or up to 210°	Swath Coverage At least 10 times of water depth or up to 210°
	Minimum beam width a. Along Track: 0.5°-0.9° b. Across Track: 0.5°-0.9°	Minimum beam width a. Along Track:0.5°- 0.9° b. Across Track:0.5°- 0.9°
	Real time Beam stabilization Mandatory for roll	Real time Beam stabilization Mandatory for pitch and roll
	Rigging Arrangement Necessary rigging arrangements for the transducer and pole or stave shaped Motion Sensor have to be provided. The manufacturer engineer has to calibrate and fix the positions of transducer and the motion sensors on the Purchaser's survey vessel.	Rigging Arrangement Necessary rigging arrangements for the transducer and pole or stave shaped Motion Sensor have to be provided. The manufacturer engineer has to calibrate and fix the positions of transducer and the motion sensors on the Purchaser's survey vessel as per instruction of the Purchaser's hydrographer.
	Dynamic accuracy required from MRU (deg.) Heave: 5cm.	<u>MRU/INS to give</u> Heave: 5cm.
	Heading sensor accuracy Dynamic Accuracy $\leq 0.5^\circ$	Heading sensor accuracy Dynamic Accuracy $\leq 0.5^\circ$
Item No. 04: Digital Hydrographic Echo-Sounder (DHSE)- Single Frequency		
4.2	Frequency 200KHz, 0.5-200m Range of operation, Accuracy $\pm 0.001\text{mm} + 0.1\% \text{ h}$ at 1cm resolution, Self-recording and self-display, beam angle 7°, Own software survey suite as would be required, capable of sea bottom layer, etc. Classification: To be specified by the bidder	Frequency 200KHz, 0.5-200m Range of operation, Accuracy $\pm 0.001\text{mm} + 0.1\% \text{ h}$ at 1cm resolution, Self-recording and self-display, beam angle 7°, Own software survey suite as would be required, capable of sea bottom layer, etc. Classification: To be specified by the bidder



	Environmental Condition Operating temperature 0° to 50°C Storage temperature -5° to 55°C	Environmental Condition Operating temperature 0° to 55°C Storage temperature 0° to 55°C Standards: IEC 60945/ EN 60068, EN 60529, CE or equivalent.
Item No. 05: Acoustic Doppler Current Profiler		
5.2	Common Features Environment: Operation: -50 to 45° C and Storage: -20 to 50° C	Common Features Environment: Operation: 0° to 55° C Tilt: ±90° and Storage: 0 to 55° C Compass: 0-360°
	Vertical Beam Range: 0.2m to 80m ((±1.5), Resolution: 1mm	Vertical Beam Range: 0.2m to 100m Accuracy ±1% Resolution: 1mm
Item No. 06: Remotely operated hydrographic survey Drone Boat Aluminium rigid hull with an inbuilt navigation system for remote operation up to 2 km range; a maximum draft of 0.25 m, with a gross weight of approximately 45 kg (including equipment payload capacity), maximum speed of 10 knots and a duration of 6 hours.		
	PROPULSION: Endurance: 20 Hours at 2 knots	PROPULSION: Endurance: 20 Hours at 2 knots
	NAVIGATION AND PAYLOAD (The Drone Boat is included with Auto Nav systems and mountings only for rigging fixing of MBES & RTK GPS): n. Payload Sensors: Multibeam Echo Sounder/Sonar	NAVIGATION AND PAYLOAD (The Drone Boat is included with Auto Nav systems and mountings only for rigging fixing of MBES & RTK GPS): n. Payload Sensors: Multibeam Echo Sounder/Sonar
	v. Max Remote operating range (m): 2000	v. Max Remote operating range (m): Minimum 2000 m
	TECHNICAL SPECIFICATIONS: PHYSICAL: g. Hull Material: Aluminium	TECHNICAL SPECIFICATIONS: PHYSICAL: g. Hull Material: Aluminium Alloy.


01/08/2021

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