



মুজিববর্ষের অঙ্গীকার  
নদীরাখবোপরিষ্কার

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

Minutes of Pre-Bid Meeting  
Contract Package # BRWTP-G2

## Clarification No. 1 of the Bidding Documents

**Ref of Bid document issued:** 18.11.0000.181.14.192.21.292 dated 05 May 2021.

**Venue:** Conference Room, BSC Tower (Level-21), Plot # 2 & 3, RAJUK Avenue, Motijheel C/A, Dhaka-1000, Bangladesh.

**Date of Pre-Bid Meeting:** 07 June 2021, Time: 11:00 Hrs (Local time)

**Address:**

**From Bidders:** As per list provided with names of Representatives (enclosed as Annex-1)

**From the Purchaser (BIWTA):**

1. Mahmud Hasan Salim, Project Director (Director Planning), BRWTP-1 Project, BIWTA, Dhaka.
2. A.H. Md. Farhad Uzzaman, Addl. Chief Engineer, BIWTA and DPD, BRWTP-1 Project.
3. Engr. MM Islam, Project Coordinator, BRWTP-1 Project, BIWTA
4. Md. Ayub Ali, Addl. Chief Engineer (Marine), BIWTA and PIU Member, BRWTP-1 Project.
5. Md. Monzurul Haque, Deputy Director, BIWTA and PIU Member, BRWTP-1 Project.
6. Md. Muniruzzaman, Executive Engineer, BIWTA and PIU Member, BRWTP-1 Project.
7. Md. Ali Akbar Patwary, National Procurement Consultant, BRWTP-1 Project, BIWTA.

**Chairperson of the Meeting:** Mahmud Hasan Salim, Project Director (Director Planning), BRWTP-1 Project, BIWTA, Dhaka.

At the outset of the meeting, the Chairperson welcomed the participants from the Bidders. After self-introduction session he requested the Bidder's representatives to raise questions to have clarifications on the bidding documents issued from the Office of the Project Director. On the basis of issues discussed and queries raised prior and during the meeting from the bidder's representatives were answered/ clarified as follows:

<i>Topic</i>	<i>Ref. of Bid Document (section/ Clause/ Page)</i>	<i>Questions/ Queries</i>	<i>Answers/ Clarification</i>
01.	<b>Item No: 01 Technical Specification of Differential Global Positioning System Receiver DGPS Beacon Receiver SN- 1.3, Page: 94</b>	Please remove Beacon receiver. Beacon is having only a particular brand. Please mention L1,L2,L5  Please keep it, DGPS Receiver.	The term beacon receiver as in DGPS BEACON RECEIVER is a generic word and does not imply a specific brand. The DGPSBeacon Receiverrequired should be suppliedwith 10HzsFreq, A43 Antenna or equivalent (mFreq,mGNSS,Beacon,L-Band) Add activation for Beacon, SBAS, RTK Eclipse, Atlas-Basic,Activation(Lifetimeof Receiver)
02.	Display SN- 1.3, Page: 94	LED for satellite tracking, battery status, Bluetooth connectivity,	The display should be LCD/LED as per Manufacturerstandard to make easy make easy for monitoring and Configuring.
03.	Frequency Beacon Frequency: 283.5 - 325 KHz Beacon LNA Gain: 30 dB SN- 1.3, Page: 94	Frequency Please remove Beacon frequency. Beacon is having a particular brand.	The beacon frequency is that required by the purchaser and cannot be changed.
04.	<b>Item No. 02 Technical Specification of Handheld Global Positioning System (GPS) receiver SN- 2.3, Page: 95</b>	Please remove brand and model name. Brand and Model specified a particular brand which restricts a free and fair tender. Please follow the general specification.  Brand: Internationally reputed brand to be mentioned by the bidders. Model: To be mentioned by the bidders. Country of Origin: Japan, USA, UK, Switzerland, Germany and EU.  For generalize please insert below specification: <ul style="list-style-type: none"> <li>Channels:Minimum 120 channel Receivers for Tracking L1,L2 frequency from GPS, GLONASSand possible to upgrade for L2 frequency and other</li> </ul>	Where any brand or model has been specified, a substantial equivalent brand or model may be supplied by bidders.  Data provided are international standard. No need to change.

		<p>satellite constellation in future.</p> <ul style="list-style-type: none"> <li>• L1 Measurements (GPS): Carrier phase full wave length C/A Narrow code</li> <li>• L1 Measurements (GLONASS): Carrier Phase Full Wavelength C/A Narrow Code</li> <li>• Receiver Technology: Low elevation tracking, low noise and inbuilt multipath mitigation.</li> <li>• LED status indicators: For Power, tracking, Bluetooth</li> <li>• Display: Should have minimum 4.5-inch color Display with 850*480 pixels Display and should be color with a very good visibility in broad daylight.</li> <li>• Operating System: Should be Win Mobile 6.5 or Higher, or Android</li> <li>• Processor &amp; Memory: Should have 1.5 GHz Dual Core Processor, or better 1 GB RAM or better, minimum 4 GB Internal external memory with provision to expand the internal memory up to 32GB.</li> </ul>	
05.	<p>Item No. 03  <b>Technical Specification of Reflectorless Total Station.</b>  SN- 3.3, Page: 96</p>	<p>Please remove brand and model name.  Brand and Model specified a particular brand which restricts a free and fair tender. Please follow the general specification.</p> <p><b>Brand:</b> Internationally reputed brand to be specified by the bidders.  <b>Model:</b> To be mentioned by the bidders.  <b>Country of Origin:</b> Japan, USA, UK, Switzerland, Germany, Singapore and EU.</p> <p>For generalize please insert</p>	<p>Where any brand or model has been specified, a substantial equivalent brand or model may be supplied by bidders.</p> <p>Data provided are international standard. No need to change.</p>

		<p>below specification:</p> <ul style="list-style-type: none"> <li>• Angular Accuracy: 2” (TwoSeconds)</li> <li>• Compensator Range: 24” or more</li> <li>• Distance Measurement with prism: Min. 3,500m</li> <li>• Distance Measurement without prism: Min. 500m</li> <li>• Distance accuracy with Prism: 1mm+1.5ppm</li> <li>• Drive systems: Endless drive.</li> <li>• Storage: 2GB internal memory and 8GB flash memory supported.</li> <li>• Display: Both side similar displays with alphanumeric keyboard.</li> <li>• Battery Backup: Min. 15 hours.</li> <li>• Following accessories to be supplied with of instruments and all of accessories to be similar brand-</li> <li>• Heavy duty wooden tripod- 01 No.</li> <li>• Single prism with prism pole-01 No.</li> <li>• Battery-02 Sets.</li> <li>• USB pen drive for data downloading-01 No.</li> <li>• Hard carrying case-01 No.</li> </ul>	
06.	<p>Item No. 04          Technical Specification of RTK GPS.          SN- 4.2, Page: 96</p>	<p>Please remove brand and model name.          Brand and Model specified a particular brand which restricts a free and fair tender. <b>Model: S321+GNSS smart antenna is obsoleted model.</b>Please follow the general specification.</p> <p>Brand: Internationally reputed brand to be mentioned by the bidders.          Model: To be mentioned by the bidders.          Country of Origin: Japan, USA,</p>	<p>Where any brand or model has been specified, a substantial equivalent brand or model may be supplied by bidders.</p> <p>Data provided are international standard. No need to change.</p>

		<p>UK, Switzerland, Germany, Singapore and EU.</p> <p><b>Please insert RTK GPS Specification:</b></p> <ul style="list-style-type: none"> <li>• Static DGPS Position accuracy: Min. 3 mm + 0.1 ppm;</li> <li>• Static RTKDGPS Position accuracy: 10 mm + 1 ppm;</li> <li>• No of Channels: 500 channels or more;</li> <li>• Satellite Signal tracking: System must have facility to track GPS L1,L2, L2C, L5: GLONASS L1, L2: and future upgradable to track Beidou, Galileo E1, E5a, E5b, Alt-BOC, &amp;QZSS;</li> <li>• Internal-Removable memory: 8 GB or more</li> <li>• Communication device: Integrated 3.5G or better cellular network capability &amp; Bluetooth, provision for attaching external radio for RTK survey in future;</li> <li>• Data recording: Facility for recording GNSS data within sensor in OEM or directly in Rinex format;</li> <li>• Controller Specification:</li> <li>• Operating System: Windows embeded handheld/Windows CE or equivalent;</li> <li>• Processor &amp; Ram: 800 MHz or better &amp; at least 1 GB of RAM;</li> <li>• Display: 5” Large VGA, Graphic color touch screen TFT display capable to show points lines polygons in user defined colors and style.</li> <li>• Following accessories to be supplied with of instruments and all of accessories to be similar brand-</li> <li>• RTK GPS receiver (01 base</li> </ul>	
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		<p>and 01 Rover)-02 Nos.</p> <ul style="list-style-type: none"> <li>• Data controller including field software and accessories -01 no.</li> <li>• Heavy duty wooden Tripod-02 Nos.</li> <li>• Rover Pole with accessories-01 No.</li> <li>• Perpetual data processing license software-01 Lic.</li> </ul>	
07.	<p>Item No. 04  Technical Specification of Digital Leveling Machine.  SN- 5.3, Page: 96</p>	<p>Please remove brand and model name.  Brand and Model specified a particular brand which restricts a free and fair tender.</p> <p>Brand: Internationally reputed brand to be mentioned by the bidders.  Model: To be mentioned by the bidders.  Country of Origin: Japan, USA, UK, Switzerland, Germany, Singapore and EU.  Please follow the general specification.  For generalize please insert below specification:  <b>Please insert Digital Level Specification:</b></p> <ul style="list-style-type: none"> <li>• Height Accuracy in 1KM Double Run</li> <li>• Using fiberglass Barcoded Staff: 0.7mm or better</li> <li>• Using standard bar code staff: 1.0mm or better</li> <li>• Measurement range to bar coded staff: Min. 100m</li> <li>• Measuring modes: Single and tracking.</li> <li>• Measuring time: 3 sec.</li> <li>• Compensator: Magnet damped pendulum, Range: 210°</li> <li>• Data storage: Min. 2,000 points.</li> <li>• Dust and water protection: IP55</li> </ul>	<p>Where any brand or model has been specified, a substantial equivalent brand or model may be supplied by bidders.</p> <p>Data provided in the tender are of international standard. No need to change.</p>

		<ul style="list-style-type: none"> <li>• Following accessories to be supplied with of instruments and all of accessories to be similar brand-</li> <li>• Wooden tripod-01 No.</li> <li>• Fiberglass bar code staff (Min. 3m) – 01 no.</li> </ul>	
08.	SN- 6.3, Page: 97	<p>Please remove brand and model name. Brand and Model specified a particular brand which restricts a free and fair tender.</p> <p>Brand: Internationally reputed brand to be mentioned by the bidders. Model: To be mentioned by the bidders. Country of Origin: Japan, USA, UK, Switzerland, Germany, Singapore and EU. Please follow the general specification.</p>	Where any brand or model has been specified, a substantial equivalent brand or model may be supplied by bidders.
09.	Part 1, Section III, Clause 3.1 (A) (ii) (b) (iii)	As per reference section the product need to be duly accredited any internationally accepted third party. (such as SocieteGeneralede Surveillance-SDS/Bureau VERITAS or equivalent). These products do not generally have accreditation certificate by mentioned third party. So are requested remove this clause.	This clause shall remain unchanged.
10.	Part 1, Section III, Clause 3.1 (A) (ii) (b) (iv)	<p>The following changes are required:</p> <p>(ii) Copy of valid ISO-9001 certificates of manufacturer/bidder. (iii) This is not a common practice of having accreditation certificate of manufacturer 's product. So please remove this clause. (iv) Export license is not</p>	The tender clause shall remain unchanged.

		required for this related item. So please remove this clause.	
<b>11.</b>	Part-2, Technical Specification of Lot-01: Item No. 01: Swathe Multi-Beam Echo Sounders	Please modify the following paragraph as below:  Rigging Arrangement: The transducers shall be hull mounted. The supplier engineer has to calibrate and fix the positions of transducer and the motion sensors on the purchaser's survey vessel.	<b>The clause is hereby modified as follows:</b>  <b>Rigging Arrangement:</b> The transducers shall be hull mounted. The purchaser or his agent shall fit these under the Supervision of Bidder's Hydrographer.
<b>11.a.</b>		Dynamic accuracy required from MRU (deg.) Roll: 0.01°, Pitch: 0.01°, Heading: 0.01°; Heave: 5cm. Heading sensor accuracy: Dynamic Accuracy $\geq 0.5^\circ$ Why two different Heading Accuracy? Do you require Gyro Compass based MRU or Separate Gyrocompass?	This clause shall change to read as follows:: MRU/INS Type-30 to give Roll: 0.01°, Pitch: 0.01°, Heading: 0.01°; Heave: 5cm/5%, True Heave 2cm/2%.  Heading Sensor Accuracy: 0.01° by INS Type 30.
<b>12.</b>	Part-2, List of Goods and Delivery Schedule. Lot-1, Line Item No: 07.	Data storage, protection and recovery system.  Manufacturers of this equipment and system do not supply directly to end user. There are available distributor/reseller of this system who can provide the complete system and installation support. So, requirement of manufacturer's authorization certificate should be removed.	A Manufacturer Authorization for data storage, protection and recovery systems is not required.
<b>13.</b>	Part 3, Section IX, Clause GCC 16.1	You are requested to modify the following paragraph as below:  <b>A. Payment for Goods supplied from abroad:</b> i. On shipment 80% ii. On delivery 10% iii. On commissioning 10% iv. 2 years' warranty period will be	<u>GCC 16.1 amended a under:</u> A.(i) (ii) (iii) shall remain unchanged. A.(iv) shall be replaced as follows: On Final Acceptance of Goods:remaining 10%(Ten percent) of the Contract Price of the Goods after commissioned and put into operation and final

		covered by PG (10% of contract value) submitted before the contract agreement.	acceptance by the Purchaser shall be paid through bank transfer to the Supplier's bank account within 45 (forty-five) days upon submission of claim. 2(two) years warranty period will be covered by PG (10% of contract value) submitted before the contract agreement.
14.	Part 1, Section III, Clause 3.1 (A) (ii) (b) (iii)	Please remove this clause since this is not relevant.	Please refer to SI No. 10 above.
15.	Part 1, Section III, Clause 3.1 (A) (ii) (b) (iv)	(ii) Copy of valid ISO-9001 certificates of manufacturer/bidder. (iii) This is not a common practice of having accreditation certificate of manufacturer's product. So please remove this clause. (iv) Export license is not required for this related item. So please remove this clause.	Please refer to SI No. 10 above.
16.	Part-2, Technical Specification of Lot-01: Item No. 01: Swathe Multi-Beam Echo Sounders	<b>Rigging Arrangement:</b> Do you want a hull mount system? Or you want over the side mount system (Portable)? Why two different Heading Accuracy?	Please refer to SI No. 11 and 11.a. above.
17.	Part-2, List of Goods and Delivery Schedule. Lot-1, Line Item No: 07.	Manufacturers of this equipment and system do not supply directly to end user. There are available distributor/reseller of this system who can provide the complete system and installation support. So, requirement of manufacturer's authorization certificate should be removed.	Please refer to SI No. 12 above.
18.	Part 3, Section IX, Clause GCC 16.1	19. On shipment 80% ii. On delivery 10% iii. On commissioning 10% iv. 2 years warranty period will be covered by PG (10% of contract value) submitted before the contract agreement.	Please refer to SI No. 13 above.

19.	Section II. Bid Data Sheet (BDS) -BDS Clause no ITB 4.1 – Page No:30	<p><b><u>Our submission for Clarification:</u></b></p> <p>1. ITB 4.1 explains that Joint Venture (JV) under an existing agreement or with intent to enter into such an agreement supported by a letter of intent. It is not clear to us for this bid that after JV formation by members need to submit the bid with JV formed documents (JV in non-judicial stamp) or a letter of intent for the formation of JV with signature by all JV members will be sufficient for the bid submission.</p> <p>2. To meet the qualification criteria no proportion of each JV members are mentioned here. Rather each JV member has to qualify individually for each qualification criteria for this bid. We believe that such strict criteria will squeeze the opportunity for more participants.</p> <p>Our submission/proposal is to relax the criteria and allow proportion by each JV member to qualify 100% qualification of the total qualification criteria. Minimum proportion of any member in the JV should be mentioned.</p>	<p>1. Joint Venture (JV) as a Bidder must fulfill the requirements stated in ITB 4.1 of the Bidding Documents supported by documents.</p> <p>2. Qualification Criteria are provided in Section III of the Bidding Documents.</p>
20.	Section II. Bid Data Sheet (BDS) –BDS Clause no ITB 14.8 (b) (i) and © (v) –Page No:32	<p><b><u>Our submission for Clarification:</u></b></p> <p>1. Can the bidder quote the price offer in BDT in Section IV, Price Schedule: Goods Manufactured Outside the Purchaser’s Country, to be</p>	<p>1. Yes</p>

		<p>Imported?</p> <p>2. How the payment will be made for Section IV, Price Schedule: Goods Manufactured Outside the Purchaser's Country, to be Imported?</p> <p>Who will open the Letter of Credit (L/C)? To Bidder or to Manufacturer (if manufacturer is not bidder)?</p> <p>3. Bidder / Supplier has to pay all duties, taxes &amp; others under Customs Duty Structure in Bangladesh which will be reimbursed.</p> <p>Will this reimbursable paid amount under Customs Duty Structure consider for price evaluation to determine the lowest bidder?</p>	<p>2. Payment will be made as stated in GCC 16.1 under Section IX. Special Conditions of Contract.</p> <p>L/C will be opened by the Purchaser as stated in GCC 13.1 under Section IX. Special Conditions of Contract.</p> <p>3. In accordance with the trade terms as prescribed by Incoterms 2010.</p> <p>Bids will be evaluated as stated in Section III of the Bidding Documents.</p>
21.	Section II. Bid Data Sheet (BDS) -BDS Clause no ITB 17.2 (b) – Page No:33	If bidder is a Bangladeshi Company then how this clause under <b><i>“Noted” (in the Clause: After sales service)</i></b> will be addressed?	If the bidder is a Bangladeshi company, then the Bangladeshi company will follow the same guideline for after sales service with their on hydrographer and storage availability.
22.	Section II. Bid Data Sheet (BDS) – BDS Clause no ITB 34.2 (a) – Page No:35	<p><b><u>Our submission for Clarification:</u></b></p> <p>Why the question comes here that <b><i><u>An item not listed in the Price Schedule shall be assumed to be not included in the Bid, and provided that the Bid is substantially responsive, the average price of the item quoted by substantially responsive Bidders will be added to the Bid price and the equivalent total cost of the Bid so determined will be used for price comparison.</u></i></b></p>	Because such occasions may arise.

		Please clarify.	
23.	<p>Section III. Evaluation and Qualification Criteria SL No 3.1, A (I) – Financial Capability Para No: A-(b), (c) – Page No:39</p>	<p><b><u>Our submission for Clarification:</u></b></p> <p><b>1. It is our understanding that if bidder is from Purchaser’s country then Manufacturer need not to qualify this specific Clause: b:</b></p> <p>Lot-1: BRWTP-G-2-01 US\$ US\$ 6,000,000 (US Dollar Six million) or equivalent Lot-2: BRWTP-G-2-02: US\$ 550,000 (US Dollar Five hundred fifty thousand) or equivalent Lot-3: BRWTP-G-2-03: US\$ 875,000(US Dollar Eight hundred seventy- five thousand) or equivalent.</p> <p><b>2. It is our understanding that if bidder is from Purchaser’s country then bidder need to qualify this specific Clause: b:</b></p> <p>Lot-1: BRWTP-G-2-01 US\$ US\$ 6,000,000 (US Dollar Six million) or equivalent Lot-2: BRWTP-G-2-02: US\$ 550,000 (US Dollar Five hundred fifty thousand) or equivalent Lot-3: BRWTP-G-2-03: US\$ 875,000(US Dollar Eight hundred seventy- five thousand) or equivalent.</p> <p><b>The required amount for LOT-1 to be qualified by a bidder from Puncher’s Country (not manufacturer) that has been mentioned here are very much exaggerated. It will restrict local bidders’ participation in the bid. We propose the annual turnover to be <u>US\$ 1,500,000 (US\$ One Point Five Million).</u>Moreover,</b></p>	<p>The tender qualification requirement shall remained unchanged</p>

		<p>for Joint Venture (JV), the total amount to be required for qualification for this clause should be cumulative amount as per proportion of the partners of Joint Venture (JV). <u>We also propose the total experience of qualification clause should be of Manufacturer.</u></p>	
24.	<p>Section III. Evaluation and Qualification Criteria SL No 3.1, A (II) – Experience and Technical Capacity, Para No: (ii) – Page No:40</p>	<p><b><u>Our submission for Clarification:</u></b></p> <p>(25) We are requesting to include Automatic Water level Measuring Instrument by local <b><u>bidders /manufacturer</u></b> as follows:</p> <p>(ii) The <b>Bidder/manufacturer</b> shall have experience of supplying technically sophisticated <b><u>Hydrographic survey, Hydrological Monitoring and / or navigational equipment</u></b> (such as multi-beam or digital Hydrographic echo-sounders, sonars, sub-bottom profilers, acoustic Doppler current profilers, remotely operated hydrographic survey boats, <b><u>Automatic Water Level Measuring Instrument</u></b>, DGPS receivers, RTKGPS receivers, refractor less total stations etc.)and providing related services(such as installation, configuration, adjustment, commissioning and maintenance), <b><u>under 04 (Four) contracts</u></b>with the minimum values stated below within the last five (5) years (i.e. years counting backward from the date of IFBpublication):</p> <p><b>Lot-1: BRWTP-G-2-01: <u>US\$ 1,300,000 (US Dollar One</u></b></p>	<p>The tender statement shall remain unchanged</p>

		<b>Point Three Million</b> or equivalent	
25.	Section VII. Schedule of Requirement - Technical Specification; Lot - 01, Item No: 01 (SMBES) Page No: 85 SL no: 1.3 Clause: Technical Specifications / Features Para: Minimum beam width	<p><b><u>Request for Amendment as follows:</u></b></p> <p>Our findings and knowledge from the market that the required specification in technical specification may limit other brands to comply and thus can reduce participation by other bidders. Thus request to extend the range as follows which will surely increase more participants:</p> <p>a. Along Track: <math>0.5 \pm 1.0 \pm</math>  b. Across Track: <math>0.5 \pm 1.0 \pm</math></p>	<p>Specifications for Along and Cross Track ranges are hereby amended as follows:</p> <p>a. Along Track: <math>0.5^{\circ}</math>-<math>1.0^{\circ}</math> (400 kHz- 200 kHz)  b. Across Track: <math>0.5^{\circ}</math>-<math>1.0^{\circ}</math> ((400kHz- 200kHz))</p>
		<p><b><u>Request for Clarification:</u></b></p> <p>The type of rigging arrangement depends on the shape of the existing vessels. The purchaser must specify which vessel are to be fitted with the MBES so that we could study the ideal rigging arrangement (such as Hull mounted, Centre type retractable or Pole/side mounted) and quote accordingly.</p>	For rigging arrangement, refer to serial no. 11
26.	Section VII. Schedule of Requirement – Technical Specification; Lot – 01, Item No: 02 (Side Scan sonar) Page No: 87 SL no: 2.2 Clause: Technical Specifications / Features	<p><b><u>Request for Amendment as follows:</u></b></p> <p>As per our observation a specific parameter may restrict the number of participation and thus request to provide a range as follows:  <math>0.20 \pm (\text{deg})</math> to <math>0.23 \pm (\text{deg})</math></p>	The specification for Horizontal beam-width range is hereby changed as follows: $0.20^{\circ}$ to $0.30^{\circ}$
		<p><b><u>Request for Amendment as follows:</u></b></p> <p>As per our observation a specific parameter may</p>	The specification for the Vertical beam-width range is hereby changed as follows: $40^{\circ}$ - $50^{\circ}$

		restrict the number of participation and thus request to provide a range as follows: 40±(deg) to 45±(deg)	
		<b><u>Request for Amendment as follows:</u></b> As per our observation a specific parameter may restrict the number of participation and thus request to provide a range as follows: 1.2 cm (sss) to 1.25 cm (sss)	Te specification for Across track resolution is hereby changed as follows: 1.2cm to 1.4 cm
		<b><u>Request for Amendment as follows:</u></b> As per our observation a specific parameter may restrict the number of participation and thus request to provide a range as follows: <b>Up to 25 kg</b>	The specifications for Weight is hereby changed as follows: Weight in water up to 14 kg Weight in air up to 25 kg  Type/capacity/feature: Portable power winch CM 2 winch or equivalent manufacturer standard can be quoted.
27.	Section VII. Schedule of Requirement - Technical Specification; Lot - 01, Item No: 03 (Sub-Bottom Profiler) Page No: 88 SL no: 3.3 Clause: Technical Specifications / Features	<b><u>Request for Amendment as follows:</u></b> As per our observation a specific parameter may restrict the number of participation and thus request to provide a range as follows:  Source Level: from 196dB to 250dB ²3dB re 1 µPa@1m	For 20 m depth of sediment and buried object, the type of sub-bottom profiler will be digital chirp/ parametric type.  Source level: up to 196dB-246dB ±3dB re 1 µPa@1m.
28.	Section VII. Schedule of Requirement – Technical Specification; Lot – 01, <b>Item No: 04 (DHES)</b> Page No: 90 SL no: 4.2 Clause: Technical Specifications / Features	<b><u>Request for Amendment as follows:</u></b> 2cm +0.1% of depth @200kHz 10cm +0.1% of depth @33kHz 15cm +0.1% of depth @12kHz	The agile operating frequency 10 kHz to 250 kHz using one or two channel for depth range 0.2 m to 1000 m with accuracy 1cm ±0.1% of depth@200kHz 10cm ±0.1% of depth@33kHz 18cm ±0.1% of depth@12kHz
		<b><u>Request for Amendment as follows:</u></b>	For real-time data display, a 15.6 inch laptop of i5 10 <sup>th</sup> gen can be

		LCD display / <b>user laptop</b> enables to show depth in both high and low frequencies.	provided if integrated display is not available.
29.	Section VII. Schedule of Requirement- Technical Specification; Lot-01, <b>Item No: 05 (ADCP)</b> SL no: 5.2 Clause: Common Features Para: Transducer, Page No:91	<p><b><u>Request for Amendment as follows:</u></b></p> <p><b><u>Transducer:Flat Phased Array</u></b> designed to a reduced in size, weight and flow disturbance.</p> <p><b><u>Clarification:</u></b> <i>“Phased Array” is simply the engineering term for “flat” which is more specific than the generic adjective “flat.” It is used when discussing transducers.</i></p>	The tender clause shall remain unchanged.
		<p><b><u>Request for Amendment as follows:</u></b></p> <p><b><u>Versatile:</u></b> Capable to deliver by a single instrument high quality <b><u>velocity</u></b> data in environment ranging from 0.4m to 60m deep river. Shall provide interwoven independent and short range measurement <b><u>bins</u></b>with discharge computation in critical surface layer.</p> <p><b><u>Clarification:</u></b> <i>“Velocity” data is needed to a depth of 60m because it can be confused with “discharge” data. Velocity is a measured parameter by the transducers with the Doppler shift. Discharge, in contrast, is a calculated parameter which takes velocity and multiplies it by water depth and station width. Software is capable of extrapolating velocity data past 60m, to the depth sensor limit of 100m or 120m (or whatever depth sensor is used). In this way, because of software, the “discharge data”</i></p>	<p>The environmental range is changed to read as follows:</p> <p>From a 0.4 m river depth to 40m riverdepth</p> <p>Profile (Water Velocity) to be followed. No changes are required.</p>

		<i>can have a different depth range, and this is confusing. Therefore, request to make clear what is meant by “data” when mentioning 0.4 to 60m range.</i>	
		<p><b><u>Request for Amendment as follows:</u></b></p> <p><b>Environment:</b> Operation: -50 to <b>45</b> C and Storage: -20 to 50 C.</p>	<p>The specification is hereby changed to read as follows:</p> <p>Sensors (standard): Temp: -5<sup>0</sup> to 45<sup>0</sup>C Tilt: ±90<sup>0</sup> Compass:0-360<sup>0</sup></p>
		<p><b><u>Request for Amendment as follows:</u></b></p> <p><b>Vertical Beam:</b> Range: 0.2m to <b>120m</b> ((<sup>2</sup>1.5), Resolution: 1mm</p> <p><b><u>Clarification:</u></b> <i>Simply a case that extra range is available if needed when the water is deep, OR, when there is a lot of sediment in the water. Since high sediment conditions can reduce normal acoustic beam range, it can help to ensure a measurement is possible, even if we are not concerned that the water will reach 120m depth.</i></p>	<p>The vertical beam range is changed to read as follows:</p> <p>Vertical Beam: Depth range: 0.3m to 100m (at FW), Accuracy ±1% Resolution 1mm</p>
30.	Section VII. Schedule of Requirement – Technical Specification; Lot – 01, <b>Item No: 06 (ROHSDB)</b> Page No: 92 SL no: Clause: Technical Specifications / Features	<p><b><u>Request for Amendment as follows:</u></b></p> <p>Our findings and knowledge from the market that the required specification in technical specification may limit other brands to comply and thus can reduce participation by other bidders. Thus request to extend the range as follows which will surely increase more participants:</p> <p><b>15-20kg</b></p>	The tender clause shall remain unchanged.
30.a		<b><u>Request for Amendment as follows:</u></b>	The requirement for endurance shall be changed to read:

		Standard is approximately 12hours@2kn, 8hours@3kn. Endurance can be doubled with an additional replaceable battery pack.  Thus request to amend the hours and accept battery pack to meet the required endurance.	8 hours @ 2knots survey speed on a single charge of battery.
31.	ITB 11.1. (BDS-P31)	For foreign bidder,only the company registration document to be submitted in English.	Company registration document namely Certificate of incorporation to be submitted.
32.	ITB 17.2(a). (BDS) P33	Manufacturer's/Dealer's/System Integrator's authorization along with the relevant pages of Dealership/Contract/MOU with Manufacturer for Lot-1, Lot-2 & Lot-3.	Manufacturer/Manufacturer's Dealer authorization for Lot-01, Lot-02 and Lot-03. In case of dealer authorization- the relevant pages of Dealership/Contract/MOU to be submitted.
33.	ITB 19.1 (BDS- P33)	No Amendment is needed. Please Clarify.	Bid securing declaration to be submitted in bidder's letterhead.
34.	ITB 20.2 (BDS-P34)	No Amendment is needed. Please Clarify.	In case the bid is signed by the owner/ president, then no Power of Attorney (POA) is required.
35.	<b>Section III</b> 3.1.(A)(I)(b) & (c), (II) (a)	"Manufacturer" to be deleted.	The word "manufacturer" to be deleted.
36.	3.1.(A) (II)(b)	Amendment is required: ISO 9001 or equivalent standard quality/ Class certificate to be submitted.	(ii) (Page 41) ISO 9001 or equivalent standard Quality/ Class certificate to be submitted.
37.	b (iii)	To be deleted completely.	(iii) Referred to serial no. 09.
38.	b (iv) (below para) P-41	Serial No. (iii) to be deleted.	Refer to serial no. 10
39.	(b) last para (iv) P-41	Serial No. (iv) to be deleted.	Refer to serial no. 10
40.	(III) (b) P-41	Starting from (b), the complete page to be deleted.	Remain as per tender.
41.	B (Page-42)	The bidder must be a System Integrator (WITH Proven Experience) to give one stop service and quality.	Refer to serial no.32
42.	<b>Section IX SCC</b> GCC 13.1	All CIP terms are to be read CFR/CPT as per Incoterm 2010 (ICC).	All CIP terms in the entire tender document to be read CFR/CPT as per Incoterm 2010 (ICC).
43.	GCC 13.1 (vi)	Please Clarify.	Subject to engagement of PSI agent.

44.	GCC16.1.A(iv) P-135	Please delete clause A (iv) and replace with B (iv).	Refer to serial no. 13
45.	GCC 24.1	The Insurance coverage shall be borne by purchaser.	In all cases, the Insurance charges shall be borne by the purchaser (BRWTP).
<b>Part-2: Technical Specification</b>			
46.	<b>Item 01.</b> <b>S-MBES</b> Art. 1.1 P-84	Using the Shipyard, BIWTA will make the Well and Vertically Retractable System for each ship for mounting of the Transducers. Request to delete” Bar-Check”.	Refer to serial no. 11. All MBESTranducer to be hull-mounted. The word “Bar-Check” is deleted.
47.	1.3	At least 7 times of water depth or up to 165° OR to write Swath Coverage (Up to 10-165°Equi Angle 10-150°Equi Distance	At least 7 times of water depth or up to 165° OR Swath Coverage (Up to 10-165°Equi Angle 10-150°Equi Distance
48.	1.3	a. Along Track:0.5± - 1.0± (400kHz- 200kHz) b. Across Track: 1.0± -2.0± ((400kHz- 200kHz)	Refer to serial no. 25
49.	1.3	Mandatory for Roll.	Mandatory for Roll only.
50.	1.3	Scope of the Shipyard whether to go for SeaChestsystems or Retractable system. The Systems Integrator to provide design and super vision support only.	Refer to serial no. 09: Hull-mounted application for single head Tranducer with SWATH angle up to 165° as per IHOSP44, special order survey.
51.	<b>Item 03</b> 3.3	Digital Crip/Parametric type SBP.	Refer to serial no. 27
52.	<b>Item 06.</b>	Seafloor is the World Leading Manufacturer of Drone Boat (USB).	
53.	a. Boat length: Not more than 2 m. f. Hull Type: Catamaran	Monohull.	As per Bidding document
54.	g. Hull Material: Aluminum	HDPE/Aluminum.	
55.	j. Endurance : 20 Hours at 2 knots	8 hours at 2knots	Technical specifications- propulsion: (j) Endurance: 8 hours @2 Knots

			of survey speed at one charge of battery. Refer to serial no. 30
56.	n. Payload Sensors:Multibeam Echo Sounder/Sonar	Please mention: MBES and INS, SBES, DGPS receiver, RTK GPS etc. to be mentioned for providing the mountings. None of the above equipment are to be included.	Navigation and Payload: The boat will be considered to carry MBES, INS-30 and RTK GPS but those are not included in the drone boat. So navigation sensor to be designed considering all the above payloads.
57.	u. Maximum Speed(knot) : 5.5	Top Speed: 4-5 knots Typical Survey speed: 2-3 Knots.	Top Speed: 4-5 knots Typical Survey speed: 2 Knots.
58.	v. Max Remote operating range(m) : 2000	Operating range 800-1000m	Operating range 800-1000m for 8 hours operation @ 2 knots.
59.	Section II. Bid Data Sheet (BDS) -BDS Clause no ITB 17.2 (b) – Page No:33	<b><u>Our submission for Clarification:</u></b>  If bidder is a Bangladeshi Company, then how this clause under “ <b>Noted</b> ” will be addressed?	Refer to serial no.21
60.	Section III. Evaluation and Qualification Criteria SL No 3.1, A (I) – Financial Capability Para No: A-(b), (c) – Page No. 39	<b><u>Our submission for Clarification:</u></b>  <b>(b)</b>  <b>The required turnover required from the Bidder (when the bidder is not a manufacturer) for LOT-1 in order for the bidder to qualify is excessively high.This requirement would only allow foreign bidders to qualify thus leaving out capable local bidders with locally present after sales support services from qualification. Since in Bangladesh, Hydrographic equipment of the kind required in Lot-1 are only procured by different offices of Bangladesh Government in small quantities periodically, such turnover could never be achieved by local hydrographic equipment dealers. Therefore, we earnestly request that the Average Annual Turnover be reduced to USD 1.2 Million US Dollars to enable fair participation by the local agents/dealers of renowned hydrographic equipment manufacturers.</b>  <b>(c)</b>  <b>For Joint Ventures (JV), requiring each member to demonstrate</b>	Remain as per tender.

		<p><b>Average Annual turnover as stated in Clause (b) would miss the point of doing a Joint Venture altogether. If each of the JV partners could financially qualify individually, there would be no point of doing any JV at all. Therefore, we suggest that the Average Annual Turnover for the JV should be treated as a cumulative Annual Average Turnover of each partners of to the JV.</b></p>	
61.	<p>Section III. Evaluation and Qualification Criteria SL No 3.1, A (II) - Experience and Technical Capacity, Para No: (ii) – Page No. 40</p>	<p><b><u>Our submission for Clarification:</u></b> In order to ensure fair participation by local agents/ dealers of hydrographic equipment manufacturers we earnestly request this clause to be amended as follows:</p> <p>(iii) The Bidder shall have experience of supplying technically sophisticated Hydrographic survey, Hydrological Monitoring and / or navigational equipment (such as multi-beam or digital Hydrographic echo-sounders, sonars, sub-bottom profilers, acoustic Doppler current profilers, remotely operated hydrographic survey boats, Automatic Water Level Measuring Instrument, DGPS receivers, RTKGPS receivers, refractor less total stations etc.)and providing related services(such as installation, configuration, adjustment, commissioning and maintenance), under <b>06 contracts</b>with the minimum values stated below within the last five (3) years (i.e. years counting backward from the date of IFBpublication):</p> <p><b>Lot-1: BRWTP-G-2-01: US\$ 1,100,000 (US Dollar One Point OneMillion)</b>or equivalent</p>	Remain as per tender.
	<b>Lot ref No. BRWTP-G-2-01</b>		
62.	<b>Item No.1 Swathe MultibeamEchosounder</b>		
	<b>a. Minimum beam width</b>	<p>a. Along Track: 1° b. Across Track: 1°</p>	Refer to serial no. 25
	<b>b. Rigging Arrangement:</b>	The type of rigging arrangement depends on the shape of the existing vessels. The customer must specify	Refer to serial no. 11

		which vessel are to be fitted with the MBES so that we could study the ideal rigging arrangement (such as Hull mounted, Centre type retractable or Pole/side mounted) and quote accordingly.	
63.	<b>Item No.2 Side Scan Sonar</b>		
	<b>a.Horizontal beam width</b>	1.5°(deg)	Refer to serial no. 26
	<b>b. Across Track Resolution :</b>	2cm	Refer to serial no. 26
64.	<b>Item No.4 Digital Hydrographic Echo-Sounder (DHES) - Single Frequency:</b>		
	<b>a. Sound Velocity</b>	1400 to 1700 m/s. This is the standard sound velocity at sea and fresh water.	Remain as per tender.
	<b>b. Draft Adjustment:</b>	1 to 5m, adjustable at 1cm steps	Remain as per tender.
	<b>c. Environmental Condition</b>	Relative humidity: 5 to 95% relative non-condensing	Environmental condition: Operating temperature as per tender. Relative Humidity 95% non-condensing. Ingress protection: IP67 Standards: IEC 60945/ EN 60068, EN 60529, CE.
65.	<b>Item No.5 Digital Hydrographic Echo-Sounder (DHES) - Single Frequency:</b>		
	<b>a. payload</b>	The payload depends on the weight of the hydrographic survey system to be loaded onto the survey drone. Based on the maximum acceptable dimensions of the vessel, the hydrographic drone should be limited to a maximum of 20kg payload.  Therefore the payload should be revised to a minimum of 20kgs.	Remain as per tender.
	<b>b. Endurance:</b>	Higher endurance would mean a larger battery to installed which would reduce the usable payload of the drone. Endurance could be simply extended with an additional user replaceable battery pack. Please clarify if offer of user-swappable battery pack is	Refer to serial no. 30.a

		<p>technically acceptable, since it would keep the performance of the system unchanged.</p> <p>Therefore, we suggest the inclusion of the following phrase:</p> <p>20 Hours at 2 knots (supported by user-replaceable battery pack)</p>	
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