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15 Poush 1431

30 December 2024

06.06.0000.221.Re-Eval (R/P B).24(P-2&3)

**RE-EVALUATION OF FLOATING BRIDGE (RIBBON/PONTOON BRIDGE)**

References:

- A. Directorate General Defence Purchase letter number 06.06.0000.221.Re-Eval(R/PB).24(P-2&3) dated 03 November 2024.  
B. Army Headquarters, Engineer in Chiefs Branch, Engineer Directorate letter number 23.01.901.055.02.192.03.22.12.24 dated 22 December 2024 (Not to all).

1. It is to inform you that Bangladesh Army is planning to procure **Floating Bridge (Ribbon/Pontoon Bridge)** in FY 2024-2025. Bangladesh Army needs to standardize more models for the equipment. Therefore, interested firms are requested to provide necessary offers, brochures, catalogues, technical/ training/operational/maintenance manuals and budgetary offers etcetera (each in duplicate) for the standardization of the said equipment. The detailed information/documents have to be sent directly to **Army Headquarters, Engineer in Chief's Branch, Engineer Directorate, mail: engrdte@army.mil.bd** as soon as possible with an intimation to this Directorate General please. Please note that, the offered models should be compatible with technical specification attached as Annex A to this letter. Short fall of any information will disqualify the offer. Also, kindly be requested to provide enlistment certificate of DGDP along with the technical offer.

2. **For Board of Officer, C/O: Army Headquarters, Engineer in Chief's Branch, Engineer Directorate Only:** Price can be disclosed during the tender process only.

3. Your co-operation will be highly appreciated.

MD ZAHIDUL KABIR  
Major  
For Director General

Enclosure:

1. Technical Specification of Floating Bridge (Ribbon/Pontoon Bridge)-05 (Five) pages Only.

Distribution:

External:

Action:

(All Concerned Firm/Supplier)

Information:

Army Headquarters, General Staff Branch, Weapon, Equipment and Statistics Directorate

Army Headquarters, Engineer in Chief's Branch, Engineer Directorate

Army Headquarters, Master General of Ordnance Branch, Ordnance Directorate

Internal:

Action:

IT Section - **(For flashing on DGDP web site).**

Notice Board

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ANX A TO  
 AHQ, E IN C'S BR, ENGR DTE LTR NO.  
 23.01.901.055.02.192.01.19.09.24  
 DT: 19 SEP 2024

**TECHNICAL SPECIFICATION OF FLOATING BRIDGE**

| Ser | Description  | Required Technical Specification                                     | Rmks |
|-----|--|--|------|
| (a) | (b)  | (c)  | (d)  |
| 1.  | Name of the Equipment  | Pontoon/Floating Bridge  |      |
| 2.  | Name and Complete Address of Local Agent                       | To be mentioned  |      |
| 3.  | Name and Complete Address of Manufacturer                      | To be mentioned  |      |
| 4.  | Name and Complete Address of Principal                         | To be mentioned  |      |
| 5.  | Type of Bridge   | To be mentioned  |      |
| 6.  | Make & Model   | To be mentioned  |      |
| 7.  | Country of Origin  |  |      |
| 8.  | Country of Assembly  | Gp A and B Countries   |      |
| 9.  | Country of Manufacturer  |  |      |
| 10. | Year of Production   | Not before the Year of Contract                                      |      |
| 11. | <b>Floating Bridge</b>   |  |      |
|     | a. Type of floating Bridge (t)                                 | To be mentioned  |      |
|     | b. <b>Interior Bays</b>  |  |      |
|     | (1) Length   |  |      |
|     | (2) Width  |  |      |
|     | (3) Self Weight  | To be mentioned  |      |
|     | (4) Maximum Load Carrying Capacity                             |  |      |
|     | (5) Method of Cruising of the Bay in Water                     | Preferably have self-cruising capability                             |      |
|     | (6) Cruising Speed of the Bay in Water                         | To be mentioned  |      |
|     | c. <b>Ramp Bays</b>  |  |      |
|     | (1) Length   | To be mentioned  |      |
|     | (2) Width  |  |      |
|     | (3) Self Weight  |  |      |
|     | (4) Maximum Load Carrying Capacity                             | To be mentioned  |      |
|     | (5) Method of Cruising of the Ramp Bay in Water                | Preferably have self-cruising capability                             |      |
|     | (6) Cruising Speed of the Ramp Bay in Water                    | To be mentioned  |      |
|     | d. <b>Maximum Wheel Load (t)</b>                               |  |      |
|     | (1) For Single Lane  | To be mentioned  |      |
|     | (2) For Double Lane:   | To be mentioned  |      |
|     | e. Minimum Tracked Load (t)                                    | For Single Lane : Minimum MLC 20<br>For Double Lane: Minimum MLC 50  |      |
|     | f. Axle Load (t)   | To be mentioned  |      |
|     | g. Roadway width   | For Single Lane : Minimum 3.2 m<br>For Double Lane: Min 6.5 m        |      |
|     | h. Maximum length of bridge (according to load classification) | For Single Lane: To be mentioned<br>For Double Lane: To be mentioned |      |
|     | j. Maximum width of the bridge                                 |  |      |
|     | k. Personnel required for erection (as per type of bridge)     |  |      |
|     | l. Time required for rection (as per type of bridge) in min    |  |      |
|     | m. Allowable current velocity                                  | Minimum 2.25 m/s   |      |
|     | n. Allowable slope of the bank                                 | To be mentioned  |      |
|     | p. Draft (with maximum load)                                   | Maximum 1.0m   |      |

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| Ser | Description  | Required Technical Specification   | Rmks |
|-----|--|--|------|
|     | q. Total Number of Bays required for 100m Pontoon/floating Bridge (according to load classification and as per type of Bridge) | For Single Lane: To be mentioned<br>For Double Lane: To be mentioned   |      |
|     | (1) Total Number of Interior Bays are Required for Bridging  |  |      |
|     | (2) Total Number of Ramp Bays are Required for Landing   |  |      |
|     | (3) Total Number of Additional Ramp Bays are Required for Complete 100m Bridge Set   |  |      |
|     | (4) Total Number of Truck/ Vehicle/ Transporter Require  |  |      |
|     | r. Anchor System of the Pontoon/Floating Bridge  | Details to be mentioned  |      |
| 12. | <b>Raft Assembly</b>   |  |      |
|     | a. Carrying capacity (t)   |  |      |
|     | (1) Minimum  | Minimum MLC 50   |      |
|     | (2) Maximum  | To be mentioned  |      |
|     | b. Type of Raft can be Assembled from 100m Floating Bridge length (As per prescribed carrying capacity)                        | To be mentioned  |      |
|     | c. <b>No of Bays Required for Raft</b> (According to the type of Raft as per Length and Minimum MLC 50)                        |  |      |
|     | (1) Interior Bay   |  |      |
|     | (2) Ramp Bay   | To be mentioned  |      |
|     | d. Number of Ramp Bays Required for Operating Two Rafts at a time from 100m Set  | To be mentioned  |      |
|     | e. <b>Personnel required for assembling</b> (as per type)  |  |      |
|     | (1) Men  |  |      |
|     | (2) Pilot  | To be mentioned  |      |
|     | f. Anchor System of the Raft   | Details to be mentioned  |      |
|     | g. Time required (as per type) in min  | Details to be mentioned  |      |
| 13. | <b>Out Board Motor (OBM)</b>   |  |      |
|     | a. Make & Model  | To be mentioned  |      |
|     | b. Country of Origin,  |  |      |
|     | c. Country of Manufacture  | Gp A and B Countries   |      |
|     | d. Country of Assembly   |  |      |
|     | e. Engine Rated Horse Power with Rpm   |  |      |
|     | f. Bore and Stroke   | To be mentioned  |      |
|     | g. Displacement (cc)   | To be mentioned  |      |
|     | h. Type of Fuel  |  |      |
|     | j. Number of OBM provide per Interior & Ramp Bay   | To be mentioned  |      |
|     | k. Starting  |  |      |
|     | l. Engine Test bench Report  | During Pre-shipment Inspection Engine Test Bench Report (for each model) which was prepared by manufacturer during production of engine at factory premises must be produced and submitted to the PSI team (duly signed and stamped by the manufacturer). Other engines (mentioning engine number) of the same model must be certified confirming the engine Test Bench Report by the manufacturer (duly signed and stamped) |      |
| 14. | <b>Motor Boat (When Applicable)</b>  |  |      |
|     | a. Make & Model  | To be mentioned  |      |
|     | b. Country of Origin,  |  |      |
|     | c. Country of Manufacturer   | Gp A and B Countries   |      |
|     | d. Country of Assembly   |  |      |
|     | e. Number of Motor Boat  | To be mentioned  |      |
|     | f. Capacity of Boat  |  |      |
|     | g. <b>Dimension</b>  |  |      |
|     | (1) Length   |  |      |
|     | (2) Width  | To be mentioned  |      |
|     | (3) Height   |  |      |

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| Ser | Description  | Required Technical Specification  | Rmks |
|-----|--|---|------|
|     | h. No of motor boat vehicle/<br>transporter                  | To be mentioned   |      |
|     | j. Loading and unloading of boat<br>from vehicle/Transporter | Details to be mentioned   |      |
|     | k. Draught   |   |      |
|     | l. Cruising range  | To be mentioned   |      |
|     | m. Material of Boat  |   |      |
|     | <b>n. Engine</b>   |   |      |
|     | (1) Make & Model   | To be mentioned   |      |
|     | (2) Country of origin, manufacture<br>and assembly           | Gp A and B Countries  |      |
|     | (3) No of cylinder   |   |      |
|     | (4) Displacement   |   |      |
|     | (5) Max Torque with rpm                                      | To be mentioned   |      |
|     | (6) Max hp with RPM  |   |      |
|     | (7) Cooling system   | Liquid cooled   |      |
|     | (8) Dore & stroke  |   |      |
|     | (9) Starting   | To be mentioned   |      |
|     | (10) Fuel system   |   |      |
|     | (11) Engine Test bench Report                                | During Pre-shipment Inspection Engine Test Bench Report (for each model) which was prepared by manufacturer during production of engine at factory premises must be produced and submitted to the PSI team (duly signed and stamped by the manufacturer). Other engines (mentioning engine number) of the same model must be certified confirming the engine Test Bench Report by the manufacturer (duly signed and stamped). |      |
| 15. | <b>Truck</b>   |   |      |
|     | a. Make and Model  | To be mentioned   |      |
|     | b. Country of Origin   |   |      |
|     | c. Country of Assembly                                       | Gp A and B Countries  |      |
|     | d. Country of Manufacturer                                   |   |      |
|     | e. Year of Production  | Not before the year of contract   |      |
|     | f. Drive   | Right Hand Drive (RHID)   |      |
|     | <b>g. Overall Dimension</b>                                  |   |      |
|     | (1) Length   |   |      |
|     | (2) Width  |   |      |
|     | (3) Height   |   |      |
|     | h. Wheel Base  |   |      |
|     | j. Wheel Tread (Front & Rear)                                | To be mentioned   |      |
|     | k. Configuration   |   |      |
|     | l. Gross vehicle weight                                      |   |      |
|     | m. Kerb weight of Truck                                      |   |      |
|     | n. Pay Load of Truck   |   |      |
|     | <b>p. Axle</b>   |   |      |
|     | (1) No of Axle   | To be mentioned   |      |
|     | (2) Type and capacity of<br>axles                            |   |      |
|     | q. Gradiability with full load                               | Minimum 15°   |      |
|     | r. Fording depth   | Minimum 600 mm  |      |
|     | s. Ground Clearance  | Minimum 275 mm  |      |
|     | t. Turning radius  | Maximum 13m   |      |
|     | u. Angle of approach   | Minimum 15°   |      |
|     | v. Angle of departure  | Minimum 15°   |      |
|     | <b>w. Engine</b>   |   |      |
|     | (1) Make and Model   |   |      |
|     | (2) Type   | To be mentioned   |      |
|     | (3) Country of Origin  |   |      |
|     | (4) Country of<br>manufacturer                               | Gp A and B Countries  |      |
|     | (5) Country of Assembly                                      |   |      |
|     | (6) Year of Production                                       | Not before the year of contract   |      |

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| Seq  | Description                              | Required Technical Specification  | Rmks |
|------|--|---|------|
| (7)  | Horse Power with rpm                     | Minimum 250 Horse Power @ rpm to be mentioned   |      |
| (8)  | Torque with rpm                          |   |      |
| (9)  | No of cylinder                           | To be mentioned   |      |
| (10) | Bore and stroke                          |   |      |
| (11) | Cooling system                           | Water Cooled  |      |
| (12) | Type of Fuel                             | Diesel  |      |
| (13) | Displacement                             |   |      |
| (14) | Fuel consumption                         | To be mentioned   |      |
| (15) | Engine test bench Report                 | During Pre shipment inspection Engine Test Bench Report (for each model) which was prepared by manufacturer during production of engine at factory premises must be produced and submitted to the PSI team (duly signed and stamped by the manufacturer). Other engines (mentioning engine number) of the same model must be certified (confirming the engine Test Bench Report by the manufacturer (duly signed and stamped) |      |
| x.   | Fuel tank capacity                       | Minimum 200 liters  |      |
| y.   | Suspension of Truck                      | To be mentioned   |      |
| z.   | <b>Transmission</b>                      |   |      |
| (1)  | Type                                     | To be mentioned   |      |
| (2)  | Country of Origin                        |   |      |
| (3)  | Country of manufacturer                  | Gp A and B Countries  |      |
| (4)  | Country of Assembly                      |   |      |
| (5)  | No of gear                               | To be mentioned   |      |
| (6)  | Gear ratio                               |   |      |
| aa.  | <b>Wheel &amp; Tyre</b>                  |   |      |
| (1)  | Number of Tyre                           | To be mentioned   |      |
| (2)  | Size of Tyre                             |   |      |
| (3)  | No of Spare Tyre                         | Should be as per the ratio of total no of Tyres   |      |
| (4)  | Tyre Brand                               | Bridgestone/Dunlop/Goodyear/ Yokohama/Toyo/Uniroyal/ Continental/ Michelin/Poldar/Firestone/Armstrong/ AMTEL / Pirelli/ Hankook/ Kumho  |      |
| (5)  | Tyre Country of Origin                   | USA, Japan, EU Countries, Russia, Brazil, Indonesia, Malaysia, Philippines, Singapore, Thailand and South Korea   |      |
| (6)  | Tyre type/pattern design                 | Non-directional, Ground Grip/Cross country (ND, GG/CC)  |      |
| (7)  | Rim size                                 | To be mentioned   |      |
| bb.  | <b>Brake System</b>                      |   |      |
| (1)  | Service brake                            |   |      |
| (2)  | Auxiliary brake                          | Details to be mentioned   |      |
| (3)  | Parking brake                            |   |      |
| cc.  | Steering                                 | Power Steering  |      |
| dd.  | <b>Electric System</b>                   |   |      |
| (1)  | Voltage                                  | 24 Volt   |      |
| (2)  | Battery (Volt & AH)                      | Volt & AH to be mentioned   |      |
| (3)  | Alternator (Volt & Amp)                  | Volt & Amp to be mentioned  |      |
| (4)  | Starter (Volt & Kw)                      | Volt & Kw to be mentioned   |      |
| ee.  | Cabin                                    | To be mentioned   |      |
| ff.  | Lighting System                          | All lights & gauges include head light, Tail, Work, Blackout light & Backup light include hour meter and other related lights & gauges require to make the equipment fully operation  |      |
| gg.  | <b>Blackout Light</b>                    |   |      |
| (1)  | 2x blackout head light                   |   |      |
| (2)  | Blackout indicator light at front & rear | To be provided  |      |
| (3)  | Blackout stop light                      |   |      |
| (4)  | Blackout Convoy light                    |   |      |
| hh.  | <b>Protection System</b>                 |   |      |
| 1.   | <b>Self-Recovery Winch Machine</b>       |   |      |
| (a)  | Type of self-recovery                    | To be included  |      |
| (b)  | Control mechanism                        |   |      |

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| Ser | Description  | Required Technical Specification   | Remarks |
|-----|--|--|---------|
|     | (c) Maximum operational length   |  |         |
|     | 2. Auto Fire Extinguishing and Suppression System  |  |         |
| 16. | Colour   | As per user reqr   |         |
| 17. | <b>Ambien Condition</b>  |  |         |
|     | a. Air temperature   | -5° C to +55° C  |         |
|     | b. River water temperature   | -5° C to +35° C  |         |
| 19. | Salinity (TDS)/Cathodic Protection of the Floating Bridge  | Arrangement to be Provided to withstand the salinity.  |         |
| 17. | All Equipment and Component of Main Vehicle, Floating (Ribbon/ Pontoon) Bridge, Truck, Out Boat Motor/Motor Boat and Raft                                | a. Will be brand new<br>b. Will be manufactured Maximum 01 year of contract.<br>c. Manufacturers have to provide guarantee certificate |         |
| 20. | <b>Floating Bridge (Ribbon/Pontoon Bridge) Accessories, Spares and Tools</b>   |  |         |
|     | a. Pontoon/Floating Bridge spares, tools and accessories   |  |         |
|     | b. Truck spares, tools and accessories   |  |         |
|     | c. Out Boat Motor/Motor Boat spares, tools and accessories   | List to be provided  |         |
|     | d. Raft spares, tools and accessories  |  |         |
| 21. | <b>Pontoon/Floating Bridge (Tools Box)</b>   |  |         |
|     | a. Pontoon/Floating Bridge tools box   |  |         |
|     | b. Truck tools box   | Integral and all essential tools to be fitted  |         |
|     | c. Out Boat Motor/Motor Boat tools box   |  |         |
|     | d. Raft tools box  |  |         |
| 22. | <b>Miscellaneous (Misc)</b>  |  |         |
|     | a. Pontoon/Floating Bridge onboard fitted items  |  |         |
|     | b. Truck onboard fitted items  | Details list of all onboard default fitted items to be mentioned   |         |
|     | c. Out Boat Motor/Motor Boat onboard fitted items  |  |         |
|     | d. Raft onboard fitted items   |  |         |
|     | e. Loading and unloading of the Ramp bay and interior bay from vehicle   | Details to be mentioned  |         |
| 23. | All components should be able to withstand minimum 98% humidity or above typical to Bangladesh weather   | Manufacturers have to provide guarantee cert   |         |
| 24. | All components i.e. panel boards, gauges, instruments etc marking and display reading should be in English language (To be confirmed by the manufacture) | Manufacturers have to provide guarantee cert   |         |
| 25. | After sell service support/spare parts   | Min 15 years, Manufacturers have to provide guarantee cert   |         |
| 26. | Model validity   | Min 10 years   |         |
| 27. | ISO Certificate of Similar Rating  | ISO Certificate to be provided by the Manufacturer   |         |
| 28. | List of fast and slow moving spares  | To be provided with the offer  |         |
| 29. | Tool list for different level of maintenance   | To be provided with manufacturer's recommended tool list and detail maintenance schedule at different level                            |         |
| 30. | Authorize cert of principal in favor of local agent  | To be provided   |         |
| 31. | Authorize cert of manufacturer in favor of principal   |  |         |
| 32. | <b>Publications: For publication book type in English to be provided</b>   |  |         |
|     | a. Owners/Operators manual and CD/DVD  | As per requirement of EME Dte  |         |
|     | b. Workshop/Repair manual and CD/DVD   |  |         |
|     | c. 100% updated master spare parts catalogue and CD/DVD  |  |         |
|     | d. Complete and updated master spare parts price list catalogue and CD/DVD   |  |         |