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TECHNICAL SPECIFICATION OF: SEA WATER HYDROPHORE PUMP WITH MOTOR

1. **Name of the Equipment** Sea Water Hydrophore Pump with Motor.
2. **Purpose:** It will be used onboard naval ships to supply sea water from sea to Domestic Sea Water Hydrophore System and to maintain certain pressure.
3. **Quantity:** 02 (Two) in No.
4. **Estimated Price.** Not Known.
5. **Manufacturer.** To be mentioned.
6. **Year of Manufacture.** 2021 or Later.
7. **Country of Origin.** UK, USA, Canda, Australia, Japan, Germany.
8. **Manufacturing Country.** UK, USA, Canda, Australia, Japan, Germany.
9. **Port of Shipment.** To be mentioned.
10. **Qualification of Bidders.** Only the genuine manufacturers or their authorised dealer (principal) can submit quotation through their authorised agent in Bangladesh. In case of dealer (principal), manufacturer's certificate of authorisation has to be submitted with the offer.
11. **Ambient Condition.** The pumps will have to operate in a highly corrosive marine environment whose particulars are as follows:

a.	Air temperature	5°C - 55°C
b.	Sea water temperature	5°C - 38°C
c.	Relative Humidity	Upto 95% (non-condensing)
d.	Water condition	Salty, muddy and oily

12. **Scope of Supply.** The scope of supply is to include the followings:
 - a. Main items (02 x Sea Water Hydrophore Pump with Motor) complete with all items necessary for immediate operation without the requirement of any other items (standard fittings/attachments, accessories, etc).
 - b. Spare parts
 - c. Documents (operation and maintenance manual, spare parts catalogue, certificates etc, as applicable).
 - d. Installation, Test/Trial, Acceptance and Quality Assurance Certificate.
 - e. Warranty and Guarantee.

13. **Technical Specification**

a	Type	Horizontal type self-priming centrifugal pump
b	Model	To be mentioned
c	Capacity	03 m ³ /hrs (Minimum) At 35 Mtr Total head

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d.	Material of pump Component	Brass/ Stainless steel
e.	Dimension	L= 635 mm (Max), B= 254mm (Max), H- 254mm (Max)
f.	Weight	To be mentioned.
g.	Speed	1800 rpm
h.	Power Supply (if applicable)	440V, 50/60Hz, 3Phase, 2KW
j.	Pipe Lines	Length: 10 Mtr Copper Pipe, Dia: 1.5 Inch.
k.	Any other particulars	Starter with necessary equipment.

14. **Cables (if required):** Cable: 20 mtr, 80 Amps.

15. **Pressure Switch:** 01 bar to 10 bar.

16. **Standard Accessories.** Standard accessories must include all items and accessories, which are essential to operate the pumps, whether those are mentioned in this specification or not. A list of such items / accessories indicating item wise price must be included in the quotation. It must include required cables, switch, breakers etc for installation of starter/controller (price included in the Total Price).

- a. Mountings.
- b. Connectors as required.
- c. Pressure gauge.
- d. Non-return valve (Brass) – 02 in no.
- e. Ball valve (SS) – 04 in no.
- f. Pipe Lines (Copper) - Length: 10 Mtr, Dia: 1.5 inches, Elbow and Socket as required.

17. **Tools.** 01 (one) set of standard tools for maintenance of each items is to be provided indicating item wise price. Quantity and size of these tools are to be mentioned in the quotation.

18. **Spare Parts.** A list of recommended spare parts for the Sea Water Hydrophore Pump including the following is to be provided with the quotation indicating item wise price:

S No	Description	Qty
a.	Mechanical Seal	04
b.	Bearing	02
c.	Shaft	01
d.	Impeller	01

19. **Documents.** 02 (two) sets of following documents in English language is to be supplied with each:

- a. Instruction manual including technical specification, installation, operation & maintenance.
- b. Spare parts catalogue and its components.
- c. Factory test certificate/performance certificate.

20. **Installation, Test, Trial and Acceptance.** The buyer will carry out the installation as per the drawing provided by the supplier. After installation test and trial for the Sea Water Hydrophore Pump with Motor will be carried by the buyer in presence of the supplier's representative. After satisfactory test and trial an acceptance certificate will be signed jointly by the supplier's representative and the representative of buyer.

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21. **Warranty.** Warranty for trouble free operation is to be given by the principal/manufacture for a period at least 1(One) year from the date of acceptance by the buyer. During the warranty period, if the item remains non-operational for any action pending by the supplier, the warranty period will be extended for the same period. The warranty covers all parts and labor (including service engineer's cost) throughout the warranty period.

22. **Guarantee.** The manufacturer shall guarantee to supply necessary spare parts for at least 01 (One) year with reasonable price.

23. **Shipment.**

a. The supplier will arrange shipment of all items by sea port/ air port to Chattagram/ Dhaka Bangladesh.

b. All items are to be delivered in sea-worthy packing to ensure safe transportation by sea/ air.

c. All packages are to have packing notes showing their contents in details and all packages shall be marked with the name and address of the consignee and gross weight.

d. The supplier will arrange transportation of all supplied items from Chattagram/ Dhaka to NSD/ NSSD.

24. **Delivery.** The items are to be delivered within 02 (Two) months from the date of signing the contract to the following consignee:

The Commanding Officer
Naval Stores Depot Chittagong
New Mooring, Chittagong, Bangladesh

Or

Officer In charge
Naval Sub Stores Depot, Dhaka

25. **Compliance Statement.** A compliance statement fulfilling all the requirement of the tender is to be submitted for evaluation of the quotations. Stating mere 'Yes' or 'No' will not suffice and detailed description/information as required is to be given. An incomplete compliance statement may attribute to cancellation of the offer. If any clause of this specification does not commensurate with offered the deviation has to be spelt out clearly.

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