TECHNICAL SPECIFICATION OF PORTABLE MARINE FIRE PUMP

1. **Name of the Equipment**. Portable Marine Fire Pump (Capacity: 100 m^3/hr)

2. **Purpose**. The item will be used for base fire fighting. Source of water will be from river (connected to sea) where the water salinity is high.

3. **Quantity**. 05 (Five) in number complete sets.

4. **Manufacturer, Principal Supplier & Local Agent**. Name and full address to be mentioned.

a.	Manufacturer	To be mentioned
b.	Principle Supplier	To be mentioned
c.	Local Agent	To be mentioned

5. **Year of Manufacture**. 2026.

6. **Country of Origin**. USA, UK, EU Countries, Norway, Switzerland, Canada, Japan, South Korea, New Zealand & Australia

7. **Manufacturing Country**. USA, UK, EU Countries, Norway, Switzerland, Canada, Japan, South Korea, New Zealand & Australia

8. **Certificate/Document of Authentication.** Following certificate(s)/ document(s) must be provided with the offer/quotation:

   a. One certificate/document by the manufacturer in favour of the Local agent (in case of manufacturer is the principal Supplier).

   b. Two certificates/documents, one by the manufacturer to Principal Supplier and another by the Principal Supplier to Local agent (in case of Principal Supplier is not the manufacturer/distributor).

9. **Standard**. The offered equipment shall be designed, manufactured, tested, and certified in accordance with the applicable international standards of the country of manufacture (EN 14466, NFPA 1900 or Class Certificate or equivalent as applicable). The bidder shall submit valid documentary evidence of the standard to which the quoted Portable Marine Fire Pump complies with.

10. **Ambient Condition.** The pump will be used in the corrosive environment having the following particulars:

a.	Air temperature	05°C to 50°C
b.	Relative Humidity	Up to 95% (non-condensing)
c.	Sea water temperature	05°C to 35°C
d.	Water condition	35000 ppm, Salinity and Sandy

11. **Scope of Supply**. The scope of supply includes the followings:

   a. Main items (05 x Portable Marine Fire Pump) complete with all items necessary for immediate operation without the requirement of any other items (standard fittings/attachments, accessories, etc as per paragraphs 12 to 15).

   b. Optional Items (as per paragraph 16).

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c. Tools (as per paragraph 17).

d. Spare parts (as per paragraph 18) (as selected by BN).

e. Documents and Certificates (as per paragraphs 19 and 20).

f. Test, Trial and acceptance and Training (as per paragraphs 21 and 22).

g. Warranty (as per paragraph 23).

h. Any other issue relevant (if any).

12. **Technical Specification**

a. **General.**

Ser	Parameter	Description
(1)	Brand	To be mentioned
(2)	Model	To be mentioned
(3)	Country of origin and manufacture	To be mentioned
(4)	Overall Dimension (LXWXH) Approx.	To be mentioned
(5)	Overall Weight (Pump with engine)	Max. 150 kg ±10% (light weight preferable)
(6)	Lifting Hook	To be mentioned

b. **Pump**

Ser	Parameter	Description
(1)	Type	Centrifugal, Self Priming
(2)	Manufacturer	To be mentioned
(3)	Capacity (l/m)	100 ton/hr
(4)	Max. Suction Lift	Not less than 6m
(5)	Max. Discharge Head	Not less than 120 m
(6)	Suction and Discharge Port	1 x suction port: 4"-6" /102 -152 mm 2 x discharge port: 2"-2.5"/ 50 -63 mm
(7)	Drive	Engine Driven
(8)	Impeller Material	Bronz/SS/Aluminum alloy steel
(9)	Pump Casing	Bronz/SS/Aluminum alloy steel
(10)	Shaft Material	Stainless Steel/ Forged Steel
(11)	Primer Performance	The pump primer shall be capable of pulling a vacuum through 20 ft. of hard suction hose with lifts to 10 ft. per requirements of NFPA 1901.
(12)	Suction and Discharge Hose Dia	As per suction and discharge port
(13)	Discharge Hose Type	Rubber/fiber/nylon
(14)	Suction Hose Type	Hard plastic/ rubber type
(15)	Qty of Hose	(a) Hard Suction Hose 3x10ft for each pump (b) Discharge Hose 2x50 ft for each pump (c) Pistol grip hard line Nozzle 1x for each pump (d) Strainer for suction hose, 1 x for each (e) Non return valve brass-1x for each pump

c. **Engine**

Ser	Parameter	Description
(1)	Brand	To be mentioned
(2)	Model	To be mentioned
(3)	Country of Manufacturer	As per para 6
(4)	Power Output (HP)	To be mentioned
(5)	Engine Type	4 Stroke Petrol/Diesel (To be mentioned)
(6)	Maximum RPM	To be mentioned
(7)	Displacement (cc)	To be mentioned
(8)	Throttle System	Electric
(9)	Fuel Tank Capacity S Type	To be mentioned (Shall have enough capacity to run the pump for at least 1 hr at full load)
(10)	Fuel Type	To be mentioned
(11)	Initial Ignition and Starting System	To be mentioned
(12)	Battery charging System	Alternator
(13)	Cooling System	Air cooled
(14)	Safety	a. Loss of prime shutdown b. Heat exchanger thermal protection circuit
(15)	Frame	To be mentioned

d. **Portable Fire Monitor:**

Ser	Parameter	Description
(1)	Brand	To be mentioned
(2)	Model	To be mentioned
(3)	Country of Manufacturer	As per para 6
(4)	Overall Weight	To be mentioned
(5)	Max. Flow Capacity	To be mentioned
(6)	Max. Operating Pressure	To be mentioned
(7)	Base Size	To be mentioned
(8)	Stream Reach	To be mentioned
(9)	Feature	Self Stabilizing, Open Close Valve
(10)	Certification	NEPA 1964 / EN-1567 or equivalent
(11)	Both Inlet and Outlet Dia	To be compatible with the pump
(12)	Feature	a. Should be compatible with the supplied pump and can be operated by using both water and foam nozzles b. Should be self stabilizing c. Should have leg support system d. Should have handle for carrying

e. **Fire Monitor Nozzle:**

Ser	Parameter	Description
(1)	Brand	To be mentioned
(2)	Model	To be mentioned
(3)	Country of Manufacturer	As per para 6
(4)	Overall Weight	To be mentioned
(5)	Max. Flow Capacity	To be mentioned

Ser	Parameter	Description
(6)	Max. Operating Pressure	To be mentioned
(7)	Feature	a. The nozzle will allow the operator to change flow and flush without shutting down the monitor. b. Rapid attack adjustable nozzle should be compatible with the monitor offered
(8)	Certification	NEPA 1960 or equivalent

f. **Control**. The pump shall be fitted with a pressure gauge, light, temperature gauge, battery voltage meter, oil pressure gauge, fuel level gauge and any other gauges or instructions necessary for the safe operation of the pump.

g. **Mounting**. The prime mover and the pump shall be mounted on a single base frame with resilient mountings. The complete unit should be easily portable with wheel (04 in no) support.

13. **Reach of Fires Streams**. Fire stream will each minimum 50 m from nozzle using the offered water monitor & smooth bore stacked tip nozzle combination.

14. **Penalty for Failing to Meet Reach Requirement**. If any pump fails to meet the reach requirement mentioned in para 11, then penalty shall be imposed as below.

Ser	Reach Deficiency	Penalty counted in % of total contract value for reach deficiency
a.	1 meter	2%
b.	2 meters	4%
c.	3 meters	6%
d.	4 meters	8%
e.	5 meters	10%

Note: In case of Reach Deficiency above 5 meters, the pump shall be deemed as unacceptable.

15. **Standard Accessories and Attachments**. Standard accessories must include all items and accessories which are essential to operate each Portable Marine Fire Pump, whether mentioned in the specification or not. The price of standard accessories is to be included in the FOB value. However, an itemized price list of standard accessories is to be provided with the offer for reference value only

16. **Optional Items.** The quotation should include a list of optional items (if any) required to operate each Portable Marine Fire Pump. BN shall have option to choose from the list of optional items partially or completely. However, these prices will not be included for financial evaluation of the offer.

17. **Tools**. 1 (one) set of standard tools for maintenance of each Portable Marine Fire Pump is to be provided. The price of standard accessories is to be included in the FOB value. However, an itemised price list of standard tools is to be provided with the offer for reference value only.

18. **Spare Parts.** A recommended list of spare parts required for the Portable Marine Fire Pump for 05 years running is to be provided with the quotation indicating itemised price. BN shall have option to choose from the list of spares partially or completely. However, these prices will not be included for financial evaluation of offer. The list must include the following:

S. No	Description	Deno	Qty
a.	Air Filter	No	10
b.	Fuel Filter	No	10
c.	Mechanical seal (for pump)	No	10

19. **Documents**. 01 (One) set of following documents in English language is to be supplied with each pump:

a. Instruction Manual Including Technical Specification, Installation, Operation and Maintenance.
b. Spare Parts Catalogue and its Components.
c. Factory Test Certificate/Performance Certificate.

20. **Quality Assurance Certificate.** Quality assurance certificate in respect of the associated equipment in regards to its manufacturing and performance is to be provided at the time of delivery of the items.

21. **Test, trial and Acceptance.** Test and trial for the Portable Marine Fire Pump will be carried out 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.

22. **Training**. A 03 (three) days on-site training plan has to be offered for 08 (eight) operators covering component level repair and maintenance training of the Portable Marine Fire Pump. The cost of airfare, accommodation, food and other expenses for the training engineer/ engineers are to be borne by the manufacturer/ supplier.

23. **Warranty.** Warranty for trouble free operation is to be given by the principal/ manufacture for a period at least 12 months from the date of acceptance by the buyer. During the warranty period, if the equipment 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.

24. **Shipment.**

a. The supplier will arrange the shipment of all items by any sea/ airport of Bangladesh.

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

c. All packages must have detailed packing notes showing their contents, and they must be marked with the consignee's name, address, and gross weight.

d. The supplier will arrange transportation of all supplied items from sea/ airport to the NSD Chattogram.

e. **Port of Shipment**. Any port of the manufacturing country.

25. **Delivery.**

a. The items are to be delivered within **9 (Nine) months** from the date of signing the contract to the following consignee:

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

b. **Place of Delivery**. NSD Chattogram.

c. The supplier will carry the items from Chittagong Port to NSD Chattogram at the cost and risk of the supplier.

26. **Validity of Offer**. The offer should remain valid till **30 June 2027** from the date of tender opening.

27. **Currency**. Foreign Currency.

28. **Terms of Payment**. L/C for the full purchase amount will be opened in favour of the principal supplier under the following payment terms:

a. 80% of the total LC value will be paid on delivery of the items described under the scope of supply and on production of necessary shipping documents.

b. The remaining 20% of the LC value will be paid upon producing an 'Acceptance Certificate' after satisfactory test and trial jointly carried out by the buyer's and supplier's representatives.

29. **Condition for Acceptance of Quotation**. Quotation has to have supporting documents (booklets, leaflet, catalogue, brochure etc) having detailed particulars of the offered Portable Marine Fire Pump. If detailed information regarding specifications, maker's books and catalogues, spare parts, accessories, scope of supply, authentication certificate etc are not provided, the quotation will not be accepted.

30. **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 the offered Portable Marine Fire Pump, the deviation has to be spelt out clearly.

09/11/26
MD ABU SUFIAN
Lt Commander BN
Staff Officer (Repair)
Directorate of Naval Engineering
Naval Headquarters
Banani, Dhaka-1213
Member/ Secy
Date:

10.11.26
MEHRAB HASSAN
Lt Commander BN
Staff Officer (NS-2)
Naval Headquarters
Banani, Dhaka-1213
DNS (Rep)
Member
Date:

09/11/26
MD TARIFUL ISLAM
Lt Cdr BN
Staff Officer (Plans-II)
Naval Headquarters
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Member
Date:

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MD SHAHRIAR ALAM
Captain BN
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A KM BODRUL QADIR
Captain BN
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Member
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S M MANIRUZZAMAN
Commodore BN
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MD. SHAHIDULLAH AL FARUQ
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DNE
President
Date: