

TENDER SPECIFICATION OF FUEL CENTRIFUGE FOR BNT HALDA & PASSUR

1. **Name of the Equipment.** Fuel Centrifuge.
2. **Purpose.** The Fuel Centrifuge is to be used both for the separation of fuel-water mixtures (fuel purification) and clarification of water-free fuel, which will be used on board ship to supply fuel from storage tank to RU tank for operation of main engines and diesel generators etc.
3. **Quantity.** 02 (Two).
4. **Manufacturer, Principal Supplier & Local Agent.** Names and full addresses are to be mentioned in the following table.

Ser	Description	Remarks
1.	Brand/Manufacturer	To be mentioned
2.	Principal Supplier	To be mentioned
3.	Local Agent	To be mentioned

5. **Year of Manufacture.** 2025 or later. The item should be brand new and original.
6. **Country of Origin.** USA, UK, EU Countries, Canada, Japan, Australia, South Korea, Turkey and New Zealand.
7. **Manufacturing Country.** Same as the Country of Origin.
8. **Certificate/Document of Authentication.** The local agent must provide the following original certificate(s)/ document(s) with the offer/quotation of items as regard to the gentility of the source and item(s) to establish a chain of links from the source to supply:
 - a. One certificate/ document from the manufacturer in favour of the supplier (in the case of the manufacturer as the direct source).
 - b. Two certificates/ documents, one from the manufacturer to the authorised agent and the other from the authorised agent to the supplier (in case the authorised agent is the immediate source).
 - c. Three certificates/ documents, first one by the manufacturer to the authorised agent, second one by the authorised agent to the sub-agent and third one by the sub-agent to the supplier (in case of the sub-agent as immediate source). If the supplier cannot obtain the first certificate (by the manufacturer to an authorised agent), then relevant documents to prove the agency-ship of its claimed agent of the recognised manufacturer need to be produced.
9. **Standard.** The Fuel Centrifuge is to be designed and constructed fulfilling the requirement of International standard. The standard to which the quoted Fuel Centrifuge with Accessories complies with is to be specified (class certificate, ISO etc).

10. **Ambient Condition.**

Ser	Description	Remarks
1.	Air temperature	+05°C to +45°C
2.	Relative Humidity	Up to 95% (non-condensing)
3.	Location	At sea

11. **Scope of Supply.** The scope of supply is to include the followings:

- a. 02 x Fuel Centrifuge with accessories with all items necessary for immediate operation without requiring any other items (attachments, accessories, consumables, etc) (as per paragraphs 12 to 14).
- b. Optional items (as per paragraph 15).
- c. Spare parts (as per paragraph 16).
- d. Special tools (as per paragraph 17).
- e. Documents and certificates (as per paragraph 18 and 19).
- f. FAT (Factory Acceptance Test) (as per paragraph 20).
- g. Installation, Test, Trial & Acceptance and Training (as per paragraph 21, 22 and 23).
- h. Warranty and Guarantee (as per paragraphs 24 and 25).
- j. Any other issue relevant (if any).

12. **Technical Specification.**

Ser	Description	
a.	Type	Centrifugal Marine
b.	Model	To be mentioned
c.	Brand	To be mentioned
d.	Capacity	2000 ltr/hr
e.	Bowl speed	To be mentioned
f.	Feed temperature range	To be mentioned
g.	Inlet pressure	To be mentioned
h.	Motor power supply	415V AC, 50Hz, Three phases. The unit should have the tolerance of $\pm 10\%$ voltage fluctuation
j.	Control power supply	230/415V, AC, 50Hz, single phase
k.	Motor power	Up to 4.0 kW at 50Hz
l.	Motor speed	3000 rpm at 50Hz
m.	Material of the components	Suitable for marine use (Stainless Steel, brass, bronze etc)
n.	Overall dimension (LxBxH)	Not more than (760 mm x 401 mm x 759 mm)
p.	Weight	Not more than 150 kg (Separator complete)
q.	Safety	Safety alarm

13. **Cables.** Standard Cable for connection of the machine is to be provided.

14. **Standard Accessories.** Standard accessories must include all items and accessories essential for operating the Fuel Centrifuge, whether mentioned in the specification or not. The price of standard accessories is to be included in the FOB value. However, an itemised price list of standard accessories is to be provided with the offer for reference value only.

15. **Optional Items.** The quotation should include a list of optional items (if any) required to operate Fuel Centrifuge. When evaluating the comparative prices of the suppliers, only the prices of selected items by BN will be added to the total price.

16. **Spare parts.** A recommended list of spare parts required for maintaining the Fuel Centrifuge is to be submitted with the quotation indicating the itemized price. That price will be added to the total price while evaluating the comparative price of the suppliers.

Ser	Item Name	Deno	Qty
1.	Separation pump	No	02
2.	Bowl disc	Set	01
3.	Gravity disc various size	No	10
4.	Gravity disc seal	No	10
5.	Hood cover seal	No	10
6.	Magnetic conductor	No	02
7.	Circuit breaker	No	02
8.	Rotary switch	No	02

17. **Special Tools.** 02 (Two) set of special tools (if required) for maintenance of the Fuel Centrifuge are to be provided, indicating the itemised price. The quantity and size of these tools are to be mentioned in the quotation. The price will be added to the total cost while evaluating the comparative price of the suppliers.

18. **Documents.** 2 (two) Sets of the following documents in the English language are to be supplied with Fuel Centrifuge (free of cost):

- The Instruction Manual Including Technical Specifications, Installation, Operation, and Maintenance (up to workshop level).
- Spare Parts Catalogue.
- Factory test certificate/performance certificate.
- Electrical diagram, fault finding flow chart etc.

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

20. **Factory Acceptance Test (FAT).**

a. Factory Acceptance Test (FAT) will be carried out by 2 (two) BN officers for 3 (three) days (Excluding the journey period) at the buyer's expense. The supplier should inform the buyer about the date, schedule, and procedure of FAT at least 8 (eight) weeks prior to the commencement of the said FAT. After inspection, a joint inspection report will be prepared and signed by both the seller and buyer's representatives.

b. On return from the country of supplier, the BN officers will submit a report to DNE. DNE, through DTS, will, in turn, forward the final decision along with the FAT report within 2 (two) weeks, based on which DGDP will render clearance for the shipment of stores to the supplier concerned. The supplier will not ship any item of the contract without clearance from the DGDP.

c. All types of movement/ transportation (air, sea, road, rail) of the BN officer within the manufacturer/ supplier's country, reception, and arrangement for entry into the country/ concerned area for the FAT are to be borne by the supplier.

21. **Installation.** The items will be installed on board BNT HALDA & BNT PASSUR by the supplier. However, the supplier will provide technical supervision to install the Fuel Centrifuge. All necessary installation materials are to be supplied with the complete set without additional cost. Hot work facility and the man power for hot work will be provided by BN only.

22. **Test, Trial, and Acceptance.** The buyer will conduct test and trial of the items at Chattogram in the presence of the supplier's representative. After satisfactory test and trial, an acceptance certificate will be signed jointly by the supplier's and buyer's representatives.

23. **Training.** The supplier's/manufacture's installation engineer will provide operation and maintenance training in Bangladesh to the operators for 5 (five) days after the Fuel Centrifuge is commissioned. The bidder will quote the cost of training separately in their financial offer. The supplier will bear the cost of the trainers' air ticket, internal transportation, accommodation, food, medical support, etc.

24. **Warranty.** The principal/manufacture will provide a warranty for trouble-free operation for at least one year from the date of acceptance by the buyer. If the Fuel Centrifuge remains non-operational during the warranty period due to any action pending by the supplier, the warranty will be extended for the same period. The warranty covers all parts and labour (including the cost of the service engineer) throughout the warranty period.

25. **Guarantee.** The manufacturer will guarantee the supply of the spare parts for at least 5 (five) years at a reasonable price. The annual increase in the price of spares should not be more than 5% of the price list provided with the quotation.

26. **Shipment.**

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

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

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

d. The supplier will arrange transportation of all supplied items from Chittagong port to the NSD Chattogram.

e. **Port of Shipment.** Any port of the manufacturing country. In case of shipment through any port of the manufacturer's authorised dealer, the relevant manufacturer's certificate is to be provided as proof of the genuineness of the offered item.

27. **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, NSD 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.

28. **Validity of Offer.** The offer should remain valid till **180 days** from the date of tender opening.

29. **Currency.** Foreign Currency.

30. **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.

31. **Condition for Acceptance of Quotation.** Quotation has to have supporting documents (booklets, leaflet, catalogue, brochure etc) having detail particulars of the offered Fuel Centrifuge. If detail 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.

32. **Compliance Statement.** A compliance statement fulfilling all the requirement of the tender is to be submitted with the offer for evaluation of the quotations. Merely stating 'Yes' or 'No' will not suffice, rather detailed description/information as required are to be provided. An incomplete compliance statement may contribute to the cancellation of the offer. If any clause of this specification is not commensurate with the offered Fuel Centrifuge, the deviation has to be spelt out clearly.

A handwritten signature or mark, possibly a stylized 'N' or a checkmark, enclosed within a faint circular stamp.

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