

TENDER SPECIFICATION OF ECHO SOUNDER JMC F-3000W – READY STOCK (NSD, CTG)

1. **Name of the Equipment.** Echo Sounder JMC F-3000W.
2. **Purpose.** The Echo Sounder will be kept in BN stock as ready use item to replace existing JMC F-3000W (if needed).
3. **Quantity** : 01 (One).
4. **Type** : Marine type.
5. **Brand** : JMC.
6. **Model** : F-3000W. However, upgraded version (if available) may be offered.
7. **Manufacturing Country** : Japan.
8. **Country of Origin** : Japan.
9. **Original Equipment Manufacturer(OEM)** : Name & Full address with e-mail of OEM is to be mentioned.
10. **Supplier/ Principle/ Bidder** : Name & Full Address is to be mentioned.
11. **Local Agent** : Name & Full Address is to be mentioned.
12. **Year of Manufacturing** : 2021 or later.
13. **Classification/Standard.** The offered items/ equipment under the scope of supply are to fulfill to the requirement of IEEE/IEC/IMO and other internationally recognized standards. The applicable classification standard(s) of offered items are to be mentioned and should be well supported by the certificates/ OEM brochures.
14. **Qualification of Bidder.** Manufacturer of JMC F-3000W Echo Sounder or their authorized distributor/ agent can submit quotations through their authorized local agent enlisted in NSSD. In case of offer from authorized distributor/ agent, one additional certificate is to be submitted with the offer stating that the warranty and after sales support will be provided under the full responsibility of OEM. Authorization certificates and all relevant certificates from OEM are to be submitted with the offer.
15. **Scope of Supply.** The scope of supply (but not limited to) is mentioned below:
 - a. 01 x Complete Echo Sounder which consists of transducer with 30 meter cable, Main Unit with display and all other items necessary for immediate operation (as per paragraph 16 to 18).
 - b. 01 x Digital Remote Display (as per paragraph 18c).
 - c. Documentation and Certificats (as per paragraph 23 and 31).
16. **Environmental Condition.**
 - a. Ambient Operating Temperature : 0° C to + 55° C.
 - b. Storage Temperature : To be mentioned.
 - c. Relative Humidity : Up to 95 % (Non condensing).
17. **System Composition.** The offered Echo Sounder should include following (but not limited to):
 - a. 01 x Transducer with 30 Meter Cable.
 - b. 01 x Main Unit with Display.
 - c. 01 x Digital Remote Display.



18. Technical Specification.a. Transducer with 30 meter Cable.

| Ser | Description | Remarks |
|-----|-----------------------|---------------|
| 1. | Type | Hull Mounted |
| 2. | Brand | JMC |
| 3. | Model | RS570-50/200T |
| 4. | Year of Manufacturing | 2021 or later |
| 5. | Cable | 30 meter |

b. Main Unit with Display.

| Ser | Description | Remarks |
|-----|-----------------------|-----------------------------------|
| 1. | Type | To be mentioned |
| 2. | Brand | JMC |
| 3. | Model | F-3000W |
| 4. | Year of Manufacturing | 2021 or later |
| 5. | Dimension | To be mentioned |
| 6. | Weight | To be mentioned |
| 7. | Power Supply | To be mentioned |
| 8. | Display Size | 10.4" or larger (To be mentioned) |
| 9. | Other Major Features | Details to be mentioned |

c. Digital Remote Display.

| Ser | Description | Remarks |
|-----|-----------------------|--|
| 1. | Type | To be mentioned |
| 2. | Brand | JMC |
| 3. | Model | RD-300 or equivalent (To be mentioned) |
| 4. | Year of Manufacturing | 2021 or later |
| 5. | Dimension | To be mentioned |
| 6. | Weight | To be mentioned |
| 7. | Power Supply | To be mentioned |
| 8. | Display Size | 4.5" or larger (To be mentioned) |
| 9. | Other Major Features | Details to be mentioned |

d. General Features.

| Ser | Description | Remarks |
|-----|--------------------------|--|
| 1. | Measuring Depth | 5 to 1000 m |
| 2. | Depth Range Steps | 8 or more (To be mentioned) |
| 3. | Minimum Detectable Depth | 50cm or better (200 KHz) and 1m or better (50 KHz) (To be mentioned) |
| 4. | Frequencies | 50 and 200 KHz |
| 5. | Power Supply | To be mentioned |
| 6. | Power Consumption | To be mentioned |
| 7. | Insulation Resistance | To be mentioned |
| 8. | Output Signals | 2 x NMEA 0183, RS 422 / RS 232 (Details to be mentioned) |

e. Cables. The transducer cables should be of high quality, marine type, screened or protected with flexible conduit pipe.

19. Power Supply Available at Ship. The power supply available at ship is 400V $\pm 5\%$, 50/60Hz, 3 Phase and 220V $\pm 5\%$, 50/60Hz, single Phase. Any other power supply unit (if necessary) is to be provided by the Supplier.

20. Interface Control Documents (ICD). Bidder shall provide necessary ICD and interface protocol during delivery of offered Echo Sounder to BN.

21. **Storage Condition/ Requirement.** BN intend to procure the offered equipment as ready stock item for future use. In this regard, storage condition/ requirement (including environment condition) for storing at least 03 (Three) years is to be mentioned with the offer. Instructions for storing the item for more than 03 (Three) years is also to be mentioned.

22. **Standard Accessories.** Standard accessories which are essential to install and operate the Echo sounder, whether those are mentioned in the specification or not also to be supplied for its full functionality and operation. The price of standard accessories is to be included in the offer. However, item wise price list of such standard accessories is to be provided with the offer for reference or future procurement.

23. **Manuals/ Documents:** 02 (Two) sets of following documents and manuals in English are to be provided at free of cost at the time of delivery:

- a. Operating Manual.
- b. Technical Manual with Circuit Diagram (At least upto SRU/ module level).
- c. Maintenance Manual.
- d. Parts Catalogue with Parts Identification List (PIL).
- e. Installation Manual having Layout drawing of equipment, electrical interconnection diagram, cable diagram, diagram showing interface (mechanical and electrical) and data protocol.

24. **Installation, Supervision, Setting to Work (STW) and Commissioning**

- a. The offered equipment should be installed and commissioned by Purchaser with online assistance from Supplier.
- b. Special instructions or criteria for Installation and STW (if any) should be provided by the Supplier.
- c. The bidder at no additional cost will provide online assistance during installation, STW and commissioning within 01 (One) year of procurement.
- d. Cost for online assistance for installation and STW after 01 (One) year is to be quoted separately.
- e. Interfacing with ships fitted equipment (such as Gyro, GPS and Radar) will be done by purchaser under the supervision of Supplier's representative/ online assistance (if needed). The supplier should keep necessary provisions for such interfacing (both digital and analogue) in the offered Echo Sounder. Any hardware, software and accessories required for such interfacing will be provided by bidder without any additional cost.

25. **Test, Trial and Acceptance.** The offered Echo Sounder will be kept in BN stock as ready use item and it will be installed within 01 (One) year of delivery or whenever needed. The supplier's representative will ensure satisfactory tests, trial and functioning/ commissioning of the equipment at purchaser's premises. In this regard, method of test and trial need is to be mentioned/ suggested by supplier. Supplier's representative will also show operation and all functions of offered item during acceptance. On completion of satisfactory Test/ Trial, an acceptance certificate will be signed by purchaser/ user and supplier.

26. **Technical Support.** Technical support is to be provided to solve any maintenance and operational problem arising with the item during and after installation. An assurance by the bidder stating agreement in this respect is to be submitted with the offer.

27. **Delivery.**

- a. The supplied items are to be delivered within 03 (Three) months after signing the contract to the following consignee:

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

or Officer In Charge
Naval Stores Sub Depot Dhaka
Naval Unit Khilkhet
Namapara, Dhaka-1229, Bangladesh





- b. In case of CFR, the supplier will carry the items from Chittagong sea port /Air port (as applicable) to NSD Chittagong at the cost and risk of supplier.
- c. All items are to be delivered in seaworthy packing to ensure safe transit by sea.
- d. All packages are to have packing notes showing their contents in detail and all packages shall be marked with the name and address of the consignee and gross weight.
- e. **Port of Shipment.** To be mentioned. It should be from the country of manufacturer/ country of origin.
28. **Brochures/ Booklet.** 01 (One) set of original brochures/ booklets in English having details technical information about the quoted Echo Sounder is to be provided along with the quotation for evaluation/ assessment.
29. **Guarantee of Supply of Spares.** The supplier is to give guarantee of continued supply of spares for at least 05 (Five) years at a reasonable price.
30. **Warranty.**
- a. 12 (Twelve) months manufacturer's warranty for trouble free operation is to be provided for the item from the date of acceptance by the buyer. If any component of the supplied items becomes defective during the warranty period, the warranty shall be extended automatically for the period of the subject component remains defective.
- b. For warranty repair/ replacement, the supplier will collect the defective item from NSD, Chittagong/ NSSD, Dhaka (as applicable) and re-supply the same to collecting place after warranty repair or for replacement within 90 (Ninety) days from the date of defect at no cost to the purchaser.
31. **Certificates.** Following certificates and reports are to be provided in English for the offered Echo Sounder during delivery:
- a. Type approval certificates of classification society.
- b. Quality assurance certificates for the Echo Sounder and their associated equipment and instruments in regard to its manufacturer and performance is to be provided.
- c. Factory Test Certificates.
- d. Certificate of genuine product and brand new item.
- e. Guarantee and warranty certificates.
32. **Validity.** The offer shall remain valid till **30 June 2022.**
33. **Terms of Payment.** 100% Payment will be made in local currency after satisfactory acceptance by BN.
34. **Price and Other Cost.**
- a. Price of the each item of the total offer is to be shown separately (e.g. price of the main items, additional accessories, test/trial, online assistance, warranty/ guarantee etc) and then grand total of the foreign currency to be shown on the original offer submitted by the bidder. Moreover, if the item is imported against this tender, price to be quoted without import duties.
- b. The associated cost for compliance of Covid-19 protocol (e.g. RT PCR/Antigen Test, quarantine and other necessary arrangement) will be borne by respected parties as and when applicable.


35. **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 evidences with description/ information, brochures/ booklet, drawing and diagram 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 Echo Sounder, the deviation has to be spelt out clearly.



M TANVIR AHMAD
Lt Cdr BN
Member Secy
Date 31-10-21



MEHRAB HASSAN
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Banani, Dhaka-1213
DNS (Rep)
Member
Date 01/11/21


MD. ASIB RAIHAN
Lt Cdr BN
Staff Officer (Plans-II)
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DNP (Rep)
Member
Date 31-10-21


M RUHUL MINHAZ
Lt Cdr BN
Director of Naval Weapons
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Banani, Dhaka-1213
DNIT
Member
Date 02/11/2021


MD MOYEZUDDIN
Insti. Captain BN
Member
Date 22/11/2021
Naval Armament
Inspection and Supply
NHQ, Banani, Dhaka-1213


M MOHIDUL HASAN
Commodore BN
Director of Naval Engineering
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DNE
Member
Date 03/11/2021


M RUHUL MINHAZ
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DNW&EE
President
Date 01/11/2021