

TENDER SPECIFICATION SPECIFICATION OF ECHO SOUNDER

1. **Equipment Name.** Echo Sounder.
2. **Propose.** The equipment will be used on board CGS SHETGANG for measurement of water depth.
3. **Model.** To be mentioned.
4. **Quantity.** 01 (One) Sets.
5. **Country of Origin** : USA, Canada, EU Countries (country to be mentioned) Norway, Switzerland, Japan, Australia, South Korea and New Zealand.
6. **Year of Manufacture** : 2017 or later.
7. **Manufacturer** : Name and Full address with e-mail of manufacturer is to be mentioned.
8. **Technical Specification.**

a. **General**

1.	Transmit frequency	:	50 kHz, 200 kHz, or 50/200 kHz alternating transmit
2.	Output power	:	At least 1 kW.
3.	Beam width	:	50B-6b (50 kHz): 35* 200B.8B (200 kHz):6*
4.	Basic display range	:	It should be in meter, feet and fathom. (Small scale is preferable)
5.	Accuracy	:	±2.5% on any range
6.	Minimum Range	:	0.5 m (200 kHz), 2.0 m (50 kHz) or better.
7.	Maximum Range	:	To be mentioned.
8.	Draft	:	0 to 30 m in 0.1 m steps, default 0 m
9.	Pulse repetition rate (PRR)	:	To be mentioned.

b. **Display Unit**

1.	Graphical display	:	6.5-inch color TFT LCD, 320X234 pixels
2.	Alarm	:	Shallow water (default 20 m), (is preferable) Bottom lost, power drop or better.
3.	Logbook display	:	To be mentioned.

c. **Digital Depth indicator.**

1.	Display	:	To be mentioned.
2.	Depth indication	:	To be mentioned.

d. **Interface.**

1.	Serial input data	:	To be mentioned.
2.	Serial output data	:	To be mentioned.
3.	Serial I/O data	:	To be mentioned.
	Output	:	To be mentioned.
	Input	:	To be mentioned.

e. **Environmental Condition.**

1.	Temperature	:	-15°C to +55°C
2.	Relative humidity	:	93% at + 40°C
3.	Degree of protection		
	Display unit, Digital depth indicator	:	IPX5
	Distribution box, Matching box	:	IPX2

9. **Power Supply** : The system should be capable of operating with 12/24 DC. To be mentioned.

10. **Transducer Cable** :

- a. 50 meter transducer cable is to be supplied with each set.
- b. Standard cable length as per the manufacturer standard is to be mentioned.

11. **Weight and Dimension** : To be mentioned

12. **Environmental Condition**

- a. Temperature : 5⁰ C to 50⁰ C
- b. Humidity : Up to 95%
- c. Water Proofing : To be available for display.

13. **Standard Accessories**: Standard accessories must include every item and accessories, which are essential to install and operate the Echo Sounder, whether those are mentioned in the specification or not. A list of such items/accessories is to be provided with the quotation.

14. **Optional Accessories**: Optional accessories, if any, are to be separately quoted indicating item wise price.

12. **Spares**: Reasonable quantity of consumable spares are to be offered for 5 years operation. List is to be provided indicating item wise price.

16. **Installation Materials**: All installation materials like cable, socket, plug, transducer hull fittings, etc are to be included in the offer.

17. **Installation**: Installation will be carried out by the supplier and he is to provide necessary instructions and installation diagrams. Buyer will provide the facilities for installation.

18. **Test /Trial**: Test /Trial will be carried out in presence of supplier's representative.

19. **Documents**. One (01) sets of following documents in English are to be provided with Echo Sounder:

- a. Instruction, operation and maintenance manual of the engine and pump.
- b. Parts catalogue of the engine and pump.

20. **Catalogue / Brochure**: Catalogue/Brochure of quoted equipment is to be provided with the offer.

21. **Warranty**: Supplier should provide warranty of one year (minimum) during which any defect, if developed, is to be rectified at suppliers cost. If the equipment remains non operational due to defect in any unit/sub unit for a certain period during warranty period, the warranty period will be extended for that period.

22. **Port of shipment**: Same as country of origin (Relevant document is to be submitted during delivery of the items.

23. **Delivery**.

The items are to be delivered within 12 weeks from the date of signing the contract to the following address:

Director Engineering
Coast Guard Headquarters
Agargaon Administrative Area, Sher-E-Bangla Nagar
Dhaka-1207, Bangladesh

After the initial quality control by CI & QC the items will have to be delivered by the supplier to CGS SHETGANG.

24. **Terms of Payment**. After satisfactory test, trial and acceptance by CI & QC, payment will be made in local currency as per the existing rule.

25. **Validity of Offer**. The offer should remain valid for 120 days.

26. **Compliance Statement**. A compliance statement fulfilling all the requirement of the tender is to be submitted for evaluation of the quotations. An incomplete compliance statement may attribute to cancellation of the offer.