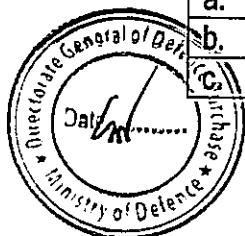


TENDER SPECIFICATION OF CATERPILLAR ENGINE ANALYZER (HARDWARE AND SOFTWARE)

1. **Name of the Equipment.** Caterpillar Engine Analyzer (Hardware and Software).
2. **Purpose.** Caterpillar Engine Analyzer (Caterpillar Electronic Technician Software) will be used for advanced diagnostics, troubleshooting, calibration, configuration, and programming of Caterpillar marine engines and electronic control systems installed onboard Bangladesh Navy ships. It should enable communication with Engine ECMs to identify, troubleshoot, calibrate, and monitor engine parameters in accordance with Caterpillar manufacturer standards. Besides, the software will enable to perform restricted injector trim calibration, injector replacement programming, ECM configuration, and advanced service tests.
3. **Quantity.** 02 (Two) in number complete sets.
4. **Manufacturer, Principal Supplier & Local Supplier.** Name and full address to be mentioned.

a.	Manufacturer	To be mentioned
b.	Principle Supplier	To be mentioned
c.	Local Supplier	To be mentioned
5. **Year of Manufacture.** 2026 or later. The item should be brand new and original.
6. **Country of Origin.** USA, UK, EU Countries, Japan, Canada and Australia.
7. **Country of Manufactures.** Same as the Country of Origin.
8. **Certificate/Document of Authentication.** The local agent must provide following certificate(s)/document(s) with the offer/quotation as regard to the genuineness of source and item(s) to establish chain of links from the original source to supply:
 - a. One certificate/document by the manufacturer in favour of the Local agent (in case of manufacturer as direct source).
 - 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 as immediate source).
 - c. Three certificates/documents, first one by the manufacturer to authorized agent, second one by authorized agent to Principal Supplier and third one by Principal Supplier to Local agent (in case Principal Supplier as immediate source).
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/CE, ANSI/ASME, BS/BS EN/UKCA, JIS, CSA, or AS/NZS or equivalent as applicable). The bidder shall submit valid documentary evidence of the standard to which the quoted caterpillar engine analyzer complies with.
10. **Ambient Condition.** The offered equipment and accessories are to be designed to operate in the moist and humid tropical environment of Bangladesh. The ambient conditions are as follows:

a.	Air Temperature	Min 10°C to max 50°C
b.	Relative humidity	Up to 98% (Noncondensing)
c.	Location	Close to sea area



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

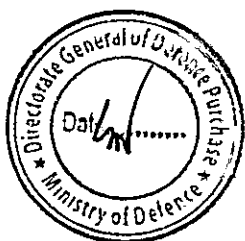
- Main item (02 x Caterpillar Engine Analyzer (Hardware and Software) complete sets with all items necessary for immediate operation without the requirement of any other items (attachments, features, spare parts, manuals and accessories) (as per paragraphs 12 and 13).
- Documents and Certificate (as per paragraph 14 and 15)
- Software Installation, Test, Trial and Acceptance and Training (as per paragraph 16 and 17).
- Warranty and Guarantee (as per paragraphs 18 and 19).

12. **Technical Specification.**a. **Caterpillar Electronic Technician Software.**

a.	Type	Caterpillar Engine Analyzer
b.	Software Name	Caterpillar Electronic Technician
c.	Model	To be mentioned
d.	Maker	To be mentioned
e.	Version	Latest
f.	Language	English
g.	OS	Windows 11 Pro
h.	Other	a. Hardware configuration should remain valid for at least 10 years. b. Subscription fee of the software for 5 years to update the software regularly is to be included in FOB value. c. Suppliers will provide after-sales services in case of software malfunctioning.
i.	Caterpillar Engine and Prime Mover held in BN	Model: 3512B, 3512BTA/ELC, 3512C, C18 ACERT, 3406E, C9, C7.1, C32, C9.3, C4.4, 3516C, 3412E

b. **Laptop.**

a.	Brand	HP or Dell
b.	Screen size	Min 14"
c.	Memory (RAM)	Minimum 12 GB
d.	Storage	512 GB SSD or More
e.	Processor	Intel Core I i7 (12 th Generation) or equivalent
f.	Processor base frequency	2.80 GHz or more
g.	Port	USB 3.0 Port/HDMI 2.1
h.	Connector	Ethernet RJ45 connector



c. **Communication Adapter-III.**

a.	Data Links	J1708 American Trucking Association (ATA), CAT Data Link (CDL) and J1939-11 high speed data link
b.	Operation Voltage	9-32 VDC
c.	Operation Temperature	5 °C to 50 °C
d.	Carrier box size	To be mentioned
e.	Weight	To be mentioned
f.	Connectors	Machine data cable with 9- and 14- pin diagnostic connectors
g.	Other	RP1210A Compliant

13. **Standard Accessories.** Standard accessories and assemblies must include all items and accessories essential for operating each Caterpillar Engine Analyzer (Hardware and Software), whether mentioned in the specification or not. The price of standard accessories are to be included in FOB value. However, an itemwise price list of standard accessories is to be provided with the offer for reference value only.

14. **Documents.** 03 (Three) sets of following documents in English language are to be supplied with the Caterpillar Engine Analyzer (Hardware and Software):

- Instruction manual for installation, operation maintenance and workshop manual (if any).
- Circuit diagram (if any).
- Factory test certificate/ performance certificate.
- Software CD.

15. **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.

16. **Software Installation, Test, Trial and Acceptance.**

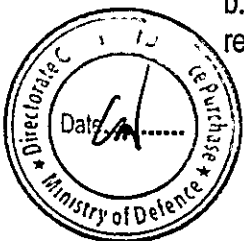
a. Supplier's representative will carry out software installation, test and trial of the items at the purchaser's premises in Chattogram and Mongla in presence of the purchaser's representative and handover the items in fully operational condition to the purchaser.

b. Minimum 03 engines of different model (01 for each model) are to be tested for fault diagnosis by each of the analyzer. After satisfactory test / trial and training an acceptance certificate will be signed jointly by the supplier's representative and the representative of buyer.

17. **Training.**

a. A training session of minimum 03 (Three) working days shall have to be provided for 05 (Five) BN personnel after the tests/trials and commissioning of the each analyzer. The training will have to be conducted by a sufficiently qualified and experienced OEM authorized technician both in Chattogram and Mongla Costs incurred for the trainer will be borne by the Supplier.

b. Training must include operation, watch keeping, periodic inspections, routine maintenance and repairs including replacement and calibrations/tuning/setting to work (STW) of the Equipment.



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18. **Warranty.** Warranty for trouble free operation is to be given by the principal/ manufacturer for a period of at least 12 months from the date of acceptance by the buyer. During the warranty period, if the item/equipment remains non-operational/defective 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 engineers cost) throughout the warranty period.

19. **Guarantee.** The Principal/ Manufacturer will guarantee to supply the spares for at least 05 years with reasonable price. Yearly increase of price of spares should not be more than 5% of the price list for spares to be supplied with the quotation.

20. **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.

21. **Delivery.**

- a. The items are to be delivered within **06 (Six) 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 to NSD Chattogram at the cost and risk of the supplier.

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

23. **Currency.** Foreign Currency.

24. **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.



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25. **Condition for Acceptance of Quotation.** Quotation shall have supporting documents (booklets, leaflet, catalogue, brochure etc) having detailed particulars of the offered Caterpillar Engine Analyzer (Hardware and Software). If detailed information regarding specifications, maker's books and catalogue about the same model of the Caterpillar Engine Analyzer (Hardware and Software) quoted, spare parts, accessories, scope of supply, etc are not provided, the quotation will not be accepted.

26. **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 Caterpillar Engine Analyzer (Hardware and Software), the deviation has to be spelt out clearly.



