

TENDER SPECIFICATION FOR PORTABLE VALVE SEAT ANGLE CUTTING MACHINE

1. **Name of the Equipment.** Portable Valve Seat Angle Cutting Machine (Range Seat Diameter: 50-230 mm, Angle: 0-50 Degree).

2. **Purpose.** The machine is to be used for valve seat angle cutting in order to restore the surface & angle of worn valve seats of an engine cylinder head.

3. **Quantity.** 01 (One) in number complete set.

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

1.	Manufacturer/ Brand,	To be mentioned
2.	Principal Supplier	To be mentioned
3.	Local Supplier	To be mentioned

5. **Year of Manufacturing.** 2024 or later.

6. **Country of Origin.** USA, UK, EU Countries, Canada, Australia, Japan, South Korea, Turkiye (Turkey) and New Zealand.

7. **Manufacturing Country.** USA, UK, EU Countries, Canada, Australia, Japan, South Korea, Turkiye (Turkey) and New Zealand.

8. **Certificate/Document of Authentication.** The local supplier must provide following certificate(s)/ document(s) with the offer/quotation as regard to the genuineness of source and item(s) in order to establish chain of links from the original source to supply:

a. One certificate/document by the manufacturer in favour of the supplier (in case of manufacturer as direct source).

b. Two certificates/documents, one by the manufacturer to authorized agent and other by the authorized agent to supplier (in case of authorized agent as immediate source).

c. Three certificates/documents, first one by the manufacturer to authorized agent, second one by authorized agent to sub-agent and third one by sub-agent to supplier (in case sub-agent as immediate source). If the supplier is unable to obtain the first certificate (by manufacturer to authorized agent), then it has to produce relevant document to prove agency-ship of its claimed agent of the recognized manufacturer.

9. **Standard.** The Portable Valve Seat Angle Cutting Machine is to be designed and constructed fulfilling the requirement of international standard. The standard to which the quoted Portable Valve Seat Angle Cutting Machine complies with is to be specified (ISO or similar).

10. **Operating Environment of Machine.** The environment under which the machine will be operated and their performances will be measured is as under:

1.	Air temperature	+05°C to +45°C.
2.	Relative humidity	Up to 95% (non-condensing)
3.	Location	Close to the sea



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

- a. Main item (01 x Portable Valve Seat Angle Cutting Machine) complete with all items necessary for immediate operation without the requirement of any other items (attachments, accessories, consumables, etc) (as per paragraph 12 and 13).
- b. Optional items (as per paragraph 14) (as selected by BN).
- c. Special tools (as per paragraph 15).
- d. Document and certificates (as per paragraph 16 and 17).
- e. Test, trial & acceptance and Training (as per paragraph 18 and 19).
- f. Warranty (as per paragraph 20).
- g. Any other issue relevant (if any).

12. **Technical Specification.**

Ser	Description	
1.	Type	Portable
2.	Model	To be mentioned
3.	Maker	To be mentioned
4.	Range (seat diameter)	50-230 mm
5.	Valve Stem Diameter	6-50 mm
6.	Length of Cut	30-35 mm
7.	Angle	0-50°
8.	Weight Base Machine	To be mentioned
9.	Weight Spindle Complete	To be mentioned
10.	Power Requirement	To be mentioned
11.	Electric Power Supply	220V, 50 HZ, Single Phase. (The motor will have the tolerance of $\pm 10\%$ voltage fluctuation)
12.	Dimension	To be mentioned
	Height	
	Spindle	
	Width	
13.	Cables	Standard cable with 3 pin plug (Euro type) to be provided with the machine

13. **Standard Accessories.** Standard accessories must include all items and accessories, which are essential to operate the machine, whether those are mentioned in this specification or not. A list of such items/accessories to be mentioned with the quotation. The accessories should be supplied free of cost.

14. **Optional Items.** A list of optional items which may be required for the machine is to be provided with the quotation indicating item wise price. The price will not be added to the total price while evaluating the comparative price of the bidders.

15. **Special Tools.** 01 (One) set of special tools (if required) for carrying out maintenance of the machine is to be supplied free of additional cost.



16. **Documents.** 02 (Two) sets of following documents in English language are to be supplied free of cost:

- a. Instruction manual including technical specification, installation, operation and maintenance.
- b. Workshop level repair manual.
- c. Electrical diagram, fault finding flow chart etc.
- d. Spare parts catalogue.
- e. Factory test certificate/performance certificate.

17. **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.

18. **Test, Trial and Acceptance.** The buyer will carry out test and trial of the Portable Valve Seat Angle Cutting Machine in presence of supplier's representative. After satisfactory test, trial and necessary training, an acceptance certificate will be signed jointly by the supplier's representative and the representative of buyer.

19. **Training.** The manufacturer's/supplier's installation engineer will provide operation and maintenance training in Bangladesh to 05 (Five) operators for 02 (Two) days after test, trial and commissioning of the Portable Valve Seat Angle Cutting Machine. Cost of training is to be borne by the supplier.

20. **Warranty.** Warranty for trouble free operation is to be given by the manufactures for a period of at least 01 (One) year from the date of acceptance by the buyer. During the warranty period, if the machine 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 labour (Including OEM or authorized service engineer's cost) throughout the warranty period.

21. **Shipment.**

- a. The supplier will arrange shipment of all items to any sea/air port of Bangladesh.
- b. All items are to be delivered in sea/air worthy packing to ensure safe transit by sea/air.
- c. 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.
- d. The supplier will arrange transportation of all supplied items from respective sea/air port to NSD Chattogram.
- e. **Port of Shipment.** Any port of manufacturing country. In case of shipment through any port of manufacturer's authorized dealer, relevant manufacturer's certificate is to be provided as a proof of genuineness of the offered item.

22. **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
Naval Stores Depot Chattogram
New Mooring, Chattogram, Bangladesh

- b. **Place of delivery.** NSD Chattogram.



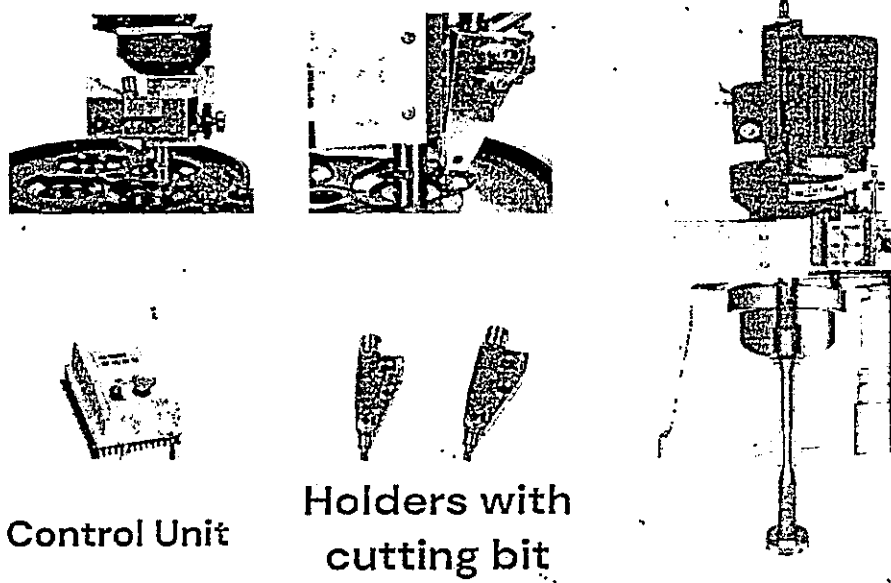
23. **Validity of Offer.** The offer should remain valid till 06 (Six) months from the date of tender opening.
24. **Currency.** Local Currency.
25. **Terms of Payment.** 100% of Total Contract Price (TCP) will be paid in local currency as per existing rules after satisfactory test/ trial and acceptance by BN.
26. **Condition for Acceptance of Quotation.** Quotation has to have supporting documents (booklets, leaflet, catalogue, brochure etc) having detailed particulars of the offered machine. 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.
27. **Compliance Statement.** A compliance statement fulfilling all the requirement of the tender is to be submitted for evaluation of the quotations. Merely stating 'Yes' or 'No' will not suffice, rather detail description/information as required is to be provided. An incomplete compliance statement may attribute to cancellation of the offer. If any clause of this specification does not commensurate with offered Portable Valve Seat Angle Cutting Machine, the deviation has to be spelt out clearly.

Enclosure:

1. Figure of sample Portable Valve Seat Angle Cutting Machine - 01 (One) page.



SAMPLE PORTABLE VALVE SEAT ANGLE CUTTING MACHINE



Control Unit

Holders with cutting bit

Fig: Portable Valve Seat Angle Cutting Machine
(Not as reference, for general idea only)

