

DETAILS OF THE MACHINE

Sl. No	Specification	A/U	Qty
(a)	(b)	(c)	(d)
	Surface Grinding Machine with all standard and additional accessories as per specification below :	No	2
1.	Name of Machine : Surface Grinding Machine		
2.	Brand and Model : To be mentioned		
3.	Purpose : Machine must be capable of grinding materials of Carbon Tool Steel, Carbon Structural Steel, High Speed Steel and Tungsten Carbide etc.		
4.	Specification :		
	a. Table :		
	(1) Work surface (Minimum) : 200 x 400 mm		
	(2) Longitudinal travels : Minimum 500 mm		
	(3) Table to spindle center distance : Minimum 450 mm		
	b. Cross Feed :		
	(1) Hand wheel per graduation : Maximum 0.02 mm or less		
	(2) Auto Feed : To be mentioned		
	(3) Resolution : Maximum 0.02 mm or less		
	c. Wheel Head :		
	(1) Vertical Movement : Minimum 300 mm		
	(2) Size of grinding Wheel : International standard size (to be mentioned)		
	(3) Capacity between wheel and table : Minimum 300 mm		
	(4) Rotation speed of grinding wheel : Minimum 2500 rpm		
	(5) Vertical Feed on Hand wheel : Maximum 0.01 mm per graduation or less		
	(6) Vertical Feed (rapid) : Minimum 300 mm/min or more		
	d. Power supply : 380~400v, 3 phase, 50Hz (Power supply of BOF is not uninterrupted)		
	e. Machine weight : Minimum 1200 kg		
5.	Country of Origin : Group B		
6.	Country of Assembly : Group B		
7.	Port of Shipment : Group B		
8.	Country of Manufacturer of Main Components : Group B		
9.	Conditions :		
	a. Following accessories /tools for 2 (two) machine must be supplied with the machine :		
	(1) Aluminum oxide grinding wheel : Qty: 5 nos		
	(2) Diamond grinding wheel : Qty: 5 nos		
	(3) Wheel Dresser for Aluminum oxide grinding wheel : Qty: 20 nos		
	(4) Wheel Dresser for Diamond grinding wheel : Qty: 10 nos		
	(5) 3 Way tilting vice-50mm : Qty: 2 nos		
	(6) Grinding vice-80 mm : Qty: 2 nos		
	(7) Wheel flange (extra) : Qty: 2 nos		
	(8) Tool box : Qty: 2 set		
	All standard and special attachment and accessories must be mentioned in the offer and supplied along with the machine to manufacture different types of tools, fixtures, punch, carbide cutters, carbide dies and carbide tips with high precision finish as per sample drawing attached. Machine is to be capable of grinding materials of Carbon Tool Steel, Carbon Structural Steel, High Speed Steel and Tungsten Carbide etc.		
	b. All additional accessories and attachments must be supplied with the machine and are to be mentioned with price in the financial offer.		
	c. List of spare parts with price required for 5 (Five) years operation is to be submitted in the financial offer.		

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	d. All optional items with price must be mentioned in the financial offer which will be certified by the manufacturer of the machine not by local agent.			
	e. Machine installation, trial run and operational with maintenance training is to be provided by the certified engineers of machine manufacturer at BOF site (Mentioned at ser. f).			
	f. Installation Requirement at BOF.			
	(1) It is the responsibility of supplier to fully integrate and commission the machine at BOF's identified site/ room. Machine installation and commissioning is to be provided by the certified engineers of machine manufacturer from same country or at least from same group of countries at BOF site.			
	(2) BOF shall only provide utility service up to near proximity. All other related equipment, connections and fittings or any related things required for successful installation and running of the machine will be provided by the supplier.			
	(3) Supplier shall bring all necessary calibration standards and calibration equipment for ensuring the machines accuracy with valid traceability certificates at BOF site.			
	(4) After installation and commissioning of the machine, trial run and trial production followed by operational and maintenance training of BOF personnel by the certified engineers of machine manufacturer from same country or at least from same group of countries at BOF site to be provided. The training should cover complete operation, application, software usage (if required) in all aspects of measurement and data analysis, part programming for required samples, calibration, basic & preventive maintenance and troubleshooting etc. Following information must be given as below :			
	Ser	Items	Responsible (Supplier/BOF)	Duration
	(a)	(b)	(c)	(d)
	1.	Site Preparation	BOF and Supplier	To be mentioned by supplier
	2.	Installation & Commissioning	Supplier	To be mentioned by supplier
	3.	Trial Run	Supplier	To be mentioned by supplier
	4.	Trial Production	Supplier	To be mentioned by supplier
	5.	Local Functional Training	Supplier & Foreign Trainer	To be mentioned by supplier (Minimum 7 days)
		Repair & Maintenance Training	Supplier & Foreign Trainer	To be mentioned by supplier (Minimum 3 days)
	g. Post Installation Requirement at BOF:			
	(1) It is the responsibility of supplier to fully integrate, erect and commission the machine at BOF's identified site/ room. Machine installation and commissioning is to be provided by the Supplier at BOF site (within 60 days) after the machine is received by BOF.			
	(2) BOF will only provide utility service up to near proximity. All other related equipment, connections and fittings or any related things required for successful installation and running of the machine will be provided by the supplier.			
	(3) Supplier will bring all necessary calibration standards and calibration equipment for ensuring the machine accuracies with valid traceability certificates at BOF site.			
	(4) After installation and commissioning of the machine, trial Production and trial Run (minimum 5 working days excluding installation and commissioning period) by the Supplier's Technical Team at BOF site to be provided.			
	h. Software and License : If any software update, license key is required for the machine, supplier must provide this for machine's lifetime free of cost. Remote or system locking of the machine using software and password is not allowed. If done so, BOF will have the authority to reject the machine.			
	j. 2x Operation/programming manual in English (Hard and Soft copy) must be supplied with the machine			
	k. 2x Maintenance/repair manula (Hard and Soft copy) with mechanical spare parts list along with circuit diagram and troubleshooting with remedy in English must be supplied with the machine.			
	l. Standard Lubricating and Lighting system must be provided with the machine.			
	m. Warranty for 1 (one) year after acceptance should be provided by the manufacturer.			

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	n. Bidder should submit original leaflet/brochure with the offer.		
	p. The service support with spares for minimum 5 (Five) years to be provided by the manufacturer.		
	q. Country of manufacture and assembly should be mentioned in the offer.		
	r. Any other points related to do the required job should be mentioned in the offer.		
	s. Supplier must submit the copy of educational and experience certificate of foreign trainer (experienced on the above mentioned machines) along with the copy of passport and biodata prior to security clearance.		

General Terms & Conditions :

Supplier must mention their compliance on the following mentioned points :

1. A principal/manufacture can submit **only one offer through one local agent** for any individual item. Offers through multiple local agents by same principle/manufacture will be **treated as rejected**.
2. To ensure unhindered LC handling the principal must provide a certificate to confirm that their LC operating bank has RMA (Relationship Management Agreement) with the local Banks of Bangladesh.
3. Supplier must **clearly mention** (in the technical offer) that as principal/manufacture they poses necessary **export permit** from the concern ministry or any other authority of their country. They must also submit a certificate in this regards as per the attached specimen format at Annex F.
4. Before signing the contract, Performance Guarantee @ **10% of total LC value** is to be submitted by the Principal in favour of Commandant, Bangladesh Ordnance Factories, Gazipur Cantonment, Gazipur through any scheduled Bank located in Bangladesh (As per the format at Annex D).
5. A separate **certificate should be provided** by the principal **originally signed** (Computerized or digitally edited signature will not be accepted) stating that they are aware of the requirement of the PG and if the contract is awarded they will be bound to provide the PG as per the format at Annex E, otherwise administrative action will be taken against the principal and local agent
6. The stores should be supplied to BOF at **supplier's cost**.
7. On arrival of the stores at BOF, the supplier must complete installation, commissioning, trial run & trial production within **1(One)** month (from the date of entry at BOF). Otherwise, penalty will be **imposed** at the rate of **2%** but **not less than 1%** and will not exceed **10% of the total CFR/LC value** (As applicable).
8. If the supplier fails to deliver the stores within the stipulated period, the followings will be applicable:
 - a. Cancel the contract and/or
 - b. Decision at the discretion of BOF.
9. Inspectorate is the authority in all matters pertaining to Inspection. Any verdict by the inspectors regarding rejection, acceptance, and/or deviation of machine involving price reduction will be treated as final and will not be subject to arbitration.
10. The Supplier must submit the following **attested documents** with the schedule :
 - a. **Trade License**
 - b. **Tin Certificate**
 - c. **Up to date VAT Registration certificate.**