

MANUAL PRECISION UNIVERSAL LATHE MACHINE

Sl. No	Nomenclature & Specification		A/U	Qty
(a)	(b)		(c)	(d)
Manual Precision Universal Lathe machine with all standard and additional accessories as per specification below:			Nos	04
1.	Brand	To be mentioned		
2.	Model	To be mentioned		
3.	Specification of the Machine :			
	(a) Working Area :			
	i. Height of center	195~205 mm		
	ii. Swing over bed	380~400 mm		
	iii. Distance between Centers	1000~1200 mm		
	(b) Carriage :			
	i. Cross slide travel	210~250 mm		
	ii. Compound rest travel	110~140 mm		
	iii. Compound rest swivel	± 45° (Min)		
	iv. Tools post type	to be mentioned		
	v. Tool holding capacity	Minimum 2 tools at a time		
	(c) Main Spindle :			
	i. Spindle bore	50~52 mm		
	ii. Standard chuck type & Size	To be mentioned		
	iii. Spindle Speed	14~3000 Revolution per minute		
	iv. No of selectable speed	Infinitely variable		
	(d) Tail Stock :			
	i. Quill Stroke	120~140mm		
	ii. Quill inner taper	MT3~MT5 (MT4 Preferable)		
	iii. Transverse taper	To be mentioned		
	(e) Threading :			
	i. Metric thread pitch range	0.2~18 mm (Steps to be mentioned)		
	ii. Imperial thread range	2~72 TPI (Steps to be mentioned)		
	f) Digital Read Out:			
	i. OS	ACU – RITE / X. Pos / EMCO/Equivalent.		
	ii. Display	TFT/LCD (Array of seven segment display not acceptable)		
	iii. Accuracy	Minimum 5µm		
	iv. Axis	3 Axes (Z ₀ , Z ₁ , X)		
	v. Constant cutting speed	CCS feature must be included in the DRO.		
	vi. Operating language	English		
	vii. Taper	Taper calculator/ Turning function for accurate compound slide adjustment must be included in the DRO.		

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	(g) Safety:															
	i. Fixed splash guard	The machine must have fixed splash guard covering full working length.														
	ii. Chip / Coolant guard	The machine must have sliding chip guard, supported by fixed splash guard independent from carriage.														
	iii. Chips	Machine must have sloped chip tray/ chips drawer for easy removal of chips.														
	iv. Lead screw shield	Lead screw must have full working length covering for shielding from dust/ falling chips.														
	(h) Power :															
	i. Drive motor	To be mentioned														
	ii. Input	380~440 V, 3 Phase, 50 Hz														
	(j) Machine Weight:															
	(k) Machine size:															
	4. Country of origin		Group -A Country													
	5. Country of Assembly/ Manufacture & Port of Shipment		Group -A Country													
	6. Conditions :															
	a. All standard attachment along with accessories must be supplied with the machine. Price of the Items must be mentioned separately.															
	b. Additionally Insert Base Holder for Turning tool left hand & right hand, threading tool 55° & 60°, Parting tool 2mm & 3mm, Boring tool & inserts for respective holders must be offered with price and Part number.															
	c. Any optional item recommended by the manufacturer that is compatible with the respective machine must be offered with price & Part number. All optional items with price must be mentioned in the financial offer which will be certified by the manufacturer of the machine (not by the local agent).															
	d. List of spare parts required for five (05) years operation must be offered with price in the financial offer.															
	e. Machine installation, trial run and operational with maintenance training (electrical & mechanical) is to be provided by the machine manufacturer at BOF site, The duration of training should be at least 10 working days after machine installation, Following information must be given as below:															
	a)	<table border="1"> <thead> <tr> <th data-bbox="376 1491 598 1525">Training</th> <th data-bbox="598 1491 952 1525">Details</th> <th data-bbox="952 1491 1254 1525">Supplier's opinion</th> </tr> </thead> <tbody> <tr> <td data-bbox="376 1525 598 1581">Local Training</td> <td data-bbox="598 1525 952 1581">Trainer Type (Local/Foreign)</td> <td data-bbox="952 1525 1254 1581"></td> </tr> <tr> <td></td> <td data-bbox="598 1581 952 1615">Number of Trainer</td> <td data-bbox="952 1581 1254 1615"></td> </tr> <tr> <td></td> <td data-bbox="598 1615 952 1648">Training Schedule</td> <td data-bbox="952 1615 1254 1648"></td> </tr> </tbody> </table>	Training	Details	Supplier's opinion	Local Training	Trainer Type (Local/Foreign)			Number of Trainer			Training Schedule			
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	f. Machine body/base should be made of cast iron.															
	g. All electric components including digital read out (DRO) and safety modules must be manufactured by group-A countries.															
	h. 1 x Operator/Programming Manual in English must be supplied with the machine.															
	j. 1 x Maintenance/Repair manual in English must be supplied with the machine.															
	k. All necessary software (if required) to handle & maintain the machine must be supplied along with the machine.															
	l. Minimum warranty for 01 (one) year after acceptance should be provided by the manufacturer.															

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	m. Bidder should submit original Leaflet/ Brochure (endorsed by manufacturer) with the offer.		
	n. The service support with spares for minimum 10 years to be provided by the manufacturer.		
	p. Auto Lubricating & LED Lighting system should be provided with the machine.		

Terms & Conditions

Supplier must mention their compliance on the following mentioned points :

1. A principal/manufacturer can submit **only one offer through one local agent** for any individual item. Offers through multiple local agents by same principle/manufacturer 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/manufacturer 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 01(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 vale (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.**