



Bid Number: GEM/2020/B/691096
Dated: 29-06-2020

Bid Document

Bid Details	
Bid End Date/Time	20-07-2020 17:00:00
Bid Opening Date/Time	2020-07-20 17:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	65 (Days)
Ministry/State Name	Ministry Of Defence
Department Name	Department Of Defence Production
Organisation Name	Indian Ordnance Factories
Office Name	*****
Total Quantity	1
Item Category	Milling Machine
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Document required from seller	OEM Authorization Certificate,OEM Annual Turnover *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Bid to RA enabled	No
Inspection Required	No

EMD Detail

Advisory Bank	State Bank of India
EMD Percentage(%)	2.00
EMD Amount	50958

ePBG Detail

Advisory Bank	State Bank of India
ePBG Percentage(%)	5.00
Duration of ePBG required (Months).	12

(a). EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy.

(b). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

Beneficiary:

GENERAL MANAGER, ORDNANCE FACTORY MEDAK, YEDDUMAILARAM

Ordnance Factory Medak, Department of Defence Production, Indian Ordnance Factories, Ministry of Defence

(General Manager)

Splitting

Bid splitting not applied.

Milling Machine (1 pieces)

Technical Specifications

[* As per GeM Category Specification](#)

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
Standards	Confirmity to specification IS 6893 part 2 for Horizontal /Universal Knee Type Milling Machine	Yes	Yes
	Confirmity to specification IS 6893 part 6 for Vertical spindle Knee Type Milling Machine	Yes	Yes
	Milling Arbor as per IS 8614 latest	Yes	*
	Mechanical Guarding as per IS 9474 latest	Yes	*
	Geometrical and Practical Accuracy as per IS 2200 latest	Yes	*
	Geometrical Accuracy test for inspection of the machine	Yes	*

	conforming to IS: 2201 - 1973		
	Machine standard As per IS: 210-1993	Yes	*
Performance Parameters	Type of Milling	Horizontal Milling	Horizontal Milling
	Mechanism	Manually Operated	*
	Nature of Operation	Heavy Duty	Heavy Duty
	Table Total Area (Length x Width) (mm x mm)	2050 x 355	2050 x 355
	Table Clamping Area (Length x Width) , mm x mm	-	*
	Width of T slots in mm	16	*
	Number of T Slots	3	*
	Centre Distance between T slots in mm	80	*
	Table Transverse	Manual & Automatic	*
	Longitudinal Table Transverse in mm	1200	*
	Cross Table Transverse in mm	320	*
	Vertical Transverse in mm	425	*
	Swivel of Milling Head to either side in vertical plane for vertical milling in degree (for others put NA)	-	*
	Swivel of Table to either side of horizontal plane in Degree (for universal /Put NA for Horizontal and Vertical Milling Machine)	-	*
	Maximum Safe Load on table in KG	600	*
	Number of Spindle Speed	18	*
	Spindle Speed range in rev/min	-	*
	Spindle Front Bearing Diameter in mm	95.263	*
	Type and Size of Spindle Nose	-	*
	Vertical Movement of	-	*

Quill in mm(put NA for Horizontal Milling Machine and Universal Milling Machine)		
Vertical Quill Diameter in mm(For light duty diameter must be greater than 85 mm, for medium and heavy duty milling ≥ 170 mm)	0	*
Number of Feeds available	24	*
Feed range for Longitudinal in mm/min	-	*
Feed range for Transverse in mm/min	-	*
Feed range for Vertical in mm/min	-	*
Rapid Transverse Feed range for Longitudinal & Cross in mm/min	-	*
Rapid Transverse Feed range for vertical in mm/min	-	*
Max Feed Force in KN	44.11	*
Maximum Torque on Spindle in Nm	1814	*
Required Floor Space in mm x mm	-	*
ISO Compliance for Milling Machine	ISO 50 for Heavy Duty Milling Machine	*
Size of Milling Arbor	As per ISO 50 for Heavy Duty Milling Machine	*
Power Supply (V, Ph , Hz)	-	*
Spindle Motor Power in Kw	7.5	*
Spindle Motor RPM	1500	*
Feed Motor power in KW	3	*
Feed Motor RPM	3000	*
Coolant Pump Motor in kw	0.11	*
Coolant Pump Motor in RPM	1200	*

Noise level Emitted by Machine as per IS 10988 latest in dB	80	*
Interlocking through switches for Medium Duty and Heavy Duty (For Light Duty Put NA)	Yes	*
Shear Pin or mechanical over load coupling for feed drive For medium duty and Heavy Duty , For Light Duty Put NA	Yes	*
Flexible Motor Coupling against shock loading For medium duty and Heavy Duty , For Light Duty Put NA	Yes	*
Thermal Safety Over Load Relay	Yes	*
Interlocking of spindle & feed Drive For medium duty and Heavy Duty , For Light Duty Put NA	Yes	*
Control circuit switching off during Voltage drop	Yes	*
Single phase preventor	Yes	*
Possitive clamping of all guideways thru clamping pads	Yes	*
Stremlined construction,rigged and vibration free	Yes	*
Power operated Feeds and Rapid traverse in all axis	Yes	*
Independent main drive and feed drive	Yes	*
Instantaneous braking of spindle and all Axis feed drive for medium duty and heavy duty, for light duty put NA	Yes	*
Inch push button for speed & feed dirves	Yes	*
Two nut arrangeent with Climb Milling attachment for Longitudinal drive for	Yes	*

	medium duty and heavy duty, for light duty put NA		
	Feed & Rapid drive thru Electromagnetic clutch for Medium Duty and Heavy duty Milling Machine	Yes	*
	Separate plunger pump for spindle & feed drive lubrication for Medium Duty and Heavy Duty Milling Machine	Yes	*
	Automatic Lubrication to all slide	Yes	*
	Selection of Each Axis drive thru mechanical lever operated for Medium Duty and Heavy Duty Milling Machine	Yes	*
	Programable control in Longitudinal axis	No	*
	Thermal Stability of bearing over excess temperature above 40 degree cel	Yes	*
	Electric equipment	Yes	*
	Annual Maintenance Contract Rate included for machine	No	*
	Period of AMC in years if yes	0	0
	Warranty in years	1	1
	Foundation Turnkey Charges included	No	No
	Erection And Commisioning Charges Included In Offered Prices Without Foundation	Yes	Yes
Dimensional & Material parameters	Size of the machine (L x W x H) (mm x mm x mm)	-	*
	Weight of the machine in kg	3600	*
	Machine casting of Column/Knee/Saddle /Table confirms to Cact	Yes	*

	Iron Grade FG-260 & Hardness 180-230 BHN		
	Main Spindle of C2R grade forged Steel and hardened 58-62 HRC	Yes	*
	Drive gears of Alloy steel material specification 15 Ni 7 Cr 4 M02	Yes	*
	Pre-loaded Standard make High precision class P3 set of taper roller bearings for main spindle	Yes	*
	Dynamically balanced Spindle and other parts rotating with peripheral speed of more than 3m/sec	Yes	*
	Lead screw -Ground profile	Yes	*
	Colour of Milling Machine as per IS 5-1978 latest	-	*
Standard Accessories	Draw Bolt with draw nut	Yes	*
	Elevating crank handle	Yes	*
	Two arbor support bearing bracket for horizontal & Universal milling (put NA for Vertical Milling Machine)	Yes	*
	Over arm brace for vertical / horizontal & Universal milling	Yes	*
	Machine Lamp	Yes	*
	Service Tool kit for operation & maintenance	Yes	*
	Operation & Maintenance Manual	Yes	*
	Foundation bolts & levelling plate	Yes	*
	Machine vice with swivel base 200mm	Yes	*
	Self Centering vice 10-80 mm	Yes	*

Optional Accessories	Stub Milling Arbor dia 16,22,27,32 & 40 mm	Yes	*
	Collet Holder with set of conical collets size 5,6,8,10,12 & 20 mm	Yes	*
	End mill holders dia 5,6,8,10,16 & 20 mm	Yes	*
	Reduction sleeve type B size MT1,MT2,MT3 & MT4	Yes	*
	Milling Arbor for horizontal & Universal milling size dia 22x500 & dia 27x500 mm (NA for Vertical Milling)	Yes	*
	3 Axis DRO	No	*
	Slotting attachment	No	*
	Angle plate & sine plate	No	*
	Universal dividing head 135mm with tailstock, supporting block, 3 jaw self centering chuck dia 160mm & train of gears for Universal Milling Machine only for rest Put NA	Na	*
	Universal dividing head 135mm with tailstock, supporting block, 3 jaw self centering chuck dia 160mm for Universal put NA	Na	*
	Vertical Milling head	No	*
	Cross plate minimum size 350 x 260 mm	No	*
	Hand operated round table minimum dia 400 mm	No	*
	Set of spares for normal running	Yes	*
	Parking bracket	No	*
	Single lever hand operated vertical indexing head 12 notches 3 jaw chuck, 160 mm dia	No	*

Reports	Avilability of test reports from Govt lab or any NABL /ILAC approved lab to prove conformity to the specification	Yes	*
	Test Report No	-	*
	Test Report Date	-	*
	Name and Complete address of Lab	-	*
	Copy of test report to be submitted to buyer on demand at the time of supplies	Yes	*

* Specifications highlighted in bold are the Golden Parameters.

* Bidders may note that In respect of non-golden Parameters, the specifications 'Values' chosen by Buyer will generally be preferred over 'Bid requirement (allowed Values) by the Buyer.

Additional Specification Documents

Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	*****	*****MEDAK	1	90

Bid Specific Additional Terms and Conditions

1. Scope of supply (Bid price to include all cost components) : Supply Installation Testing and Commissioning of Goods

[This Bid is also governed by the General Terms and Conditions](#)

---Thank You---