

GeM Government e Marketplace

Bid Document

Did Document			
Bid Details			
Bid End Date/Time 25-12-2018 15:00:00			
Bid Validity	90 (Days)		
Ministry/State Name	Ministry Of Human Resource Development		
Department Name	Department Of Higher Education		
Organisation Name	Indian Institute Of Technology (iit)		
Office Name	Ropar		
Total Quantity	1		
Item Category	Milling Machine		
MSE Exemption For Years Of Experience And Turnover	Yes		

Milling Machine (1)

Technical Specifications

* As per GeM Category Specification

Specification	Specification Name	Values	Allowed Values
Standards	Confirmity to specification IS 6893 part 2 for Horizontal /Universal Knee Type Milling Machine	Yes	Yes, Na
	Confirmity to specification IS 6893 part 6 for Vertical spindle Knee Type Milling Machine	Na	Yes, Na
	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	Yes	*

	the machine conforming to IS: 2201 - 1973		
	Machine standard As per IS: 210-1993	Yes	*
Performance Parameters	Type of Milling	Universal Milling	Horizontal Milling, Vertical Milling, Universal Milling
	Mechanism	Manually Operated	*
	Nature of Operation	Medium Duty	Light Duty, Medium Duty, Heavy Duty
	Table Total Area (Length x Width) (mm x mm)	1520 x 310	1070 x 230, 1200 x 300, 1350 x 310, 1520 x 310, 1600 x 325, 2050 x 355, 2060 x 300
	Table Clamping Area (Length x Width) , mm x mm	1350 X 310	*
	Width of T slots in mm	16	*
	Number of T Slots	3	*
	Centre Distance between T slots in mm	65	*
	Table Transverse	Manual & Automatic	*
	Longitudenal Table Transverse in mm	800	*
	Cross Table Transverse in mm	265	*
	Vertical Transverse in mm	400	*
	Swivel of Milling Head to either side in vertical plane for vertical milling in degree (for others put NA)	NA	*
	Swivel of Table to either side of horizontal plane in Degree (for universal /Put NA for Horizontal and Vertical Milling Machine)	45	*
	Maximum Safe Load on table in KG	250	*
	Number of Spindle Speed	18	*
	Spindle Speed range in rev/min	35.5 -1800	*
	Spindle Front Bearing	85.725	*

Diameter in mm		
Type and Size of Spindle Nose	TYPE ISO AND SIZE 40	*
Vertical Movement of Quill in mm(put NA for Horizontal Milling Machine and Universal Milling Machine)	NA	*
Vertical Quill Diameter in mm(For light duty dimater must be greater than 85 mm, for medium and heavy duty milling >=170 mm)	85	*
Number of Feeds available	18	*
Feed range for Longitudinal in mm/min	16 - 800	*
Feed range for Transverse in mm/min	16 - 800	*
Feed range for Vertical in mm/min	4 - 200	*
Rapid Transverse Feed range for Longitudinal & Cross in mm/min	1 TO 3200	*
Rapid Transverse Feed range for vertical in mm/min	1 TO 800	*
Max Feed Force in KN	20	*
Maximum Torque on Spindle in Nm	1324	*
Required Floor Space in mm x mm	2550 X 3130 X 2010	*
ISO Compliance for Milling Machine	ISO 40 for Medium Duty Milling Machine	*
Size of Milling Arbor	As per ISO 40 for Medium Duty Milling Machine	*
Power Supply (V, Ph , Hz)	415V , 3 PHASE , 50Hz	*
Spindle Motor Power in Kw	5.5	*
Spindle Motor RPM	1500	*
Feed Motor power in KW	1.5	*
Feed Motor RPM	1500	*

Coolant Pump Motor in kw	0.12	*
Coolant Pump Motor in RPM	2800	*
Noise level Emitted by Machine as per IS 10988 latest in dB	85	*
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 swiching 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	Yes	*

	speed & feed dirves		
	Two nut arrangeent with Climb Milling attachment for Longitudinal drive for medium duty and heavy duty, for light duty put NA	Yes	*
	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, 1, 2, 3, 4, 5
	Warranty in years	1	1, 2, 3, 4, 5
	Foundation Turnkey Charges included	No	Yes, No
	Erection And Commisioning Charges Included In Offered Prices Without Foundation	Yes	Yes, No
Dimensional & Material parameters	Size of the machine (L x W x H) (mm x mm x mm)	2550 X 3130 X 2010	*

Weight of the machine in kg	2500	*
Machine casting of Column/Knee/Saddle /Table confirms to Cact Iron Grade FG-260 & Hardness 180-230 BHN	Yes	*
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	APPLE GREEN	*
Draw Bolt with draw nut	Yes	*
Elevating crank handle	Yes	*
Two arbor support bearing bracket for horizonta& 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	*
	in kg Machine casting of Column/Knee/Saddle /Table confirms to Cact Iron Grade FG-260 & Hardness 180-230 BHN Main Spindle of C2R grade forged Steel and hardened 58-62 HRC Drive gears of Alloy steel material specification 15 Ni 7 Cr 4 M02 Pre-loaded Standard make High precision class P3 set of taper roller bearings for main spindle Dynamically balanced Spindle and other parts rotating with peripheral speed of more than 3m/sec Lead screw -Ground profile Colour of Milling Machine as per IS 5-1978 latest Draw Bolt with draw nut Elevating crank handle Two arbor support bearing bracket for horizonta Universal milling (put NA for Vertical Milling Machine) Over arm brace for vertical / horizontal & Universal milling Machine Lamp Service Tool kit for operation & maintenance Operation & Maintenance Manual Foundation bolts &	in kg Machine casting of Column/Knee/Saddle / Table confirms to Cact Iron Grade FG-260 & Hardness 180-230 BHN Main Spindle of C2R grade forged Steel and hardened 58-62 HRC Drive gears of Alloy steel material specification 15 Ni 7 Cr 4 M02 Pre-loaded Standard make High precision class P3 set of taper roller bearings for main spindle Dynamically balanced Spindle and other parts rotating with peripheral speed of more than 3m/sec Lead screw -Ground profile Colour of Milling Machine as per IS 5-1978 latest Draw Bolt with draw nut Elevating crank handle Two arbor support bearing bracket for horizonta& Universal milling (put NA for Vertical Milling Machine) Over arm brace for vertical / horizontal & Universal milling Machine Lamp Service Tool kit for operation & Maintenance Operation & Maintenance Operation & Maintenance Manual Foundation bolts & Yes

	Machine vice with swivel base 200mm	Yes	*
	Self Centering vce 10-80 mm	Yes	*
	Stub Milling Arbor dia 16,22,27,32 & 40 mm	Yes	*
	Collet Holder with set of conical collets size5,6,8,10,12 &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 horizonta& Universal milling size dia 22x500&,dia 27x500mm(NA for Vertical Milling)	Yes	*
Optional Accessories	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	Yes	*
	Universal dividing head 135mm with tailstock, supporting block,3 jaw self centering chuck dia 160mm for Universal put NA	Na	*
	Vertical Milling head	Yes	*
	Cross plate minimum size 350 x260 mm	No	*
	Hand operated round table minimum dia 400 mm	No	*
	Set of spares for normal running	Yes	*
	Parking bracket	Yes	*

	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	HMT MTP/NPCIL/FN/001	*
	Test Report Date	29-12-2016	*
	Name and Complete address of Lab	NPCIL RAWATBHATA, KOTA ,RAJASTHAN	*
	Copy of test report to be submitted to buyer on demand at the time of supplies	Yes	*

^{*} Bold specifications are the golden parameters.

Consignees and Quantity

S.No.	Consignee	Address	Quantity	Delivery Days
1		140001,Room No. 104 , Indian Institute of Technology Ropar, Nangal Road,Rupnangar	1	15

EMD Detail

l n	la:
Required	I NO
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ePBG Detail

Required	No

Splitting

Bid splitting not applied.

Buyer Specific Additional Terms and Conditions

1. Scope of supply (Bid price to include all cost components): Supply Installation Testing Commissioning of Goods and Training of operators and providing Statutory Clearances required (if any)

This Bid is also governed by the General Terms and Conditions

---Thank You---