

**Rajagiri School of Engineering and Technology Kochi**  
**Dept. Of Mechanical Engineering**

**Notice inviting quotation**

Competitive quotations are invited for the supply of following Machines to our Advanced Machine Tool Lab. Items should be delivered at our lab. The quotation along with catalogs, specifications should reach the undersigned on or before 30/12/2013. The list of equipments with our required specification is given below. The warranty period, taxes, insurances and all other charges must be mentioned clearly in your quotation.

SI No.	Name of Machine	Qty.	Required Specification & Features		Remarks
1	Shaping machine	8	Capacity	18"	Sagar SM 18 or equivalent
			LENGTH OF RAM STROKE	457 mm	
			LENGTH OF RAM	990 mm	
			Working Surface of Table	400 x 275 mm	
			Max. Horizontal Table Travel	450 - 550 mm	
			Max. Vertical Table Travel	300 - 350 mm	
			Angular Movement of Table	60 degree	
			Max. Vertical travel of Tool Slide	140 - 160 mm	
			Max. Swivel of Tool Head	60 deg.	
			Range of Table Feeds/Stroke	0.22-0.90 mm	
2	Slotting machine	8	Max vertical stroke	175mm	Premac 7" Model PMF 250 or equivalent
			Max diameter of job to be clamped	450 - 500mm	
			Length of machine bed	500 - 600mm	
			width of machine bed	200 - 250mm	
			Total height of head	700 - 900mm	
			Max distance between table to head	250 - 550mm	
			Diameter of rotary table	250 - 450 mm	
			Longitudinal travel of rotary table	150 - 250mm	
			Transverse travel of rotary table	200 - 250 mm	
			No of Speed	2 - 4	
No of stroke per minute	50 - 200				
3	Universal Milling machine	1	Longitudinal movement	Automatic 450 - 850 mm, Manual 550 - 850 mm	BFW UF 2
			Transverse movement	Automatic 200 - 300 mm, Manual 250 - 300 mm	
			Vertical movement	Automatic 300 - 400 mm, Manual 300 - 450 mm	
			Speed range	40 - 2200 rpm	
			Milling spindle motor, Feed motor	5.5kw, 1.75 kw	
			Job clamping Area	1355 x 315 mm	
Table Overall size (L x W)	1,555 x 315 mm				
4	Vertical Milling Machine	1	Longitudinal movement	Automatic 550 - 830 mm, Manual 550 - 830 mm	BFW VF 2
			Transverse movement	Automatic 200 - 300 mm, Manual 250 - 400 mm	
			Vertical movement	Automatic 300 - 500 mm, Manual 300 - 420 mm	
			Speed range	40 - 2800 rpm	
			Vertical milling head swivelling to both	45 deg.	
			Table Overall size (L x W)	1355 x 315 mm	
Milling spindle motor, Feed motor	1,555 x 315 mm				
5	Surface grinding Machine	1	Max. Table Travel	225 X 350 mm	Bhurji, Praga or equivalent
			Magnet Chuck Suitable	200 X 450 mm	
			table	240 - 340 mm	
			Vertical Down Feed on Hand Wheel	0.01	
			Micro feed (Elevation)	0.002 /1 Div	
			Wheel Speed	2800 RPM	
			Wheel Dimension Grinding	178 x 31.75 x 12.70 mm	
Spindle Motor 3 Phase	1 HP				
6	Cylindrical grinding Machine	1	Max. dia. Of swing(mm)	127 mm	Bhurji, Praga or equivalent
			Max. distance bet. Centres(mm)	1000mm	
			Wheel dia. (mm)	350 mm	
			Grinding wheel width (mm)	40 mm	
			Grinding wheel bore (mm)	127 mm	
			R.P.M of wheel spindle (rpm)	1600 3000	
			Internal Grinding Attachment Spindle diameter (mm)	60mm	
			Min. & Max. diameter of hole grinding (mm)	16 to 60 mm	
7	Tool & Cutter grinder	1	Largest diameter of cutter that can be ground	203mm	Bhurji, Praga, ADDISON or equivalent
			Maximum admit between centres	330mm	
			can be ground	250mm	
			Grinding Spindle speeds with AC Drive	2800-5000RPM	
			Swing diameter on standard centres	203mm	
			Swing diameter on work head	200mm	
Working surface of table	550 X 105 mm				
8	TIG Welding Machine	1	300 Amps Ac/ Dc welding suitable for MS,SS and Aluminium	300 Amps	Adoor C HAMP TIG 300 AD or equivalent

**Principal**