



Estd. – 2009
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PARALA MAHARAJA ENGINEERING COLLEGE

(A constituent college of Biju Patnaik University of Technology, Odisha, Rourkela)

SITALAPALLI: BERHAMPUR: DIST.: -GANJAM: PIN – 761003

Corrigendum Notice

For

BID REFERENCE NO: TEQIP-III/OD/pmec/11

It is hereby notified that there are a few minor changes in the technical specifications please follow the specification as stated below:-

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Procurement Co-ordinator TEQIP Cell

/ Workshop Superintendent

PMEC BAM

-sd-

HOD Production Engineering

PMEC BAM

ALL GEARED CONVENTIONAL LATHE ESSENTIAL SPECIFICATION

CAPACITY	
Height of Centers	Not less than 175 mm
Swing over bed	Not less than 350 mm
Swing over cross slide	Not less than 200 mm
Distance between center	Not less than 500 mm
Bed Width	Not less than 240 mm
MAIN SPINDLE	
Type & Size spindle nose	A/2 Camlocck-4
Taper bore in Centre Sleeve	MT-3
Spindle Bore	40 mm
TAIL STOCK	
Taper bore in spindle sleeve	MT-3
Spindle Travel	Not less than 140 mm
CARRIAGE	
Cross slide travel	Not less than 200 mm
Top Slide Travel	Not less than 100 mm
Tool Shank Section	Not less than 20x20 mm
SPEEDS	
No. of Speeds	Not less than 8
Range	71-1800 or better
FEEDS	
No of feeds	24 or better
Range: Longitudinal/rev	0.045-0.63 or better
Transverse/rev	0.015-0.375 or better
THREAD/NO. RANGE	
Metric	0.5 – 7.5
Inch	56-4 TPI
D. P.	8-120 DP or better
ELECTRICALS	
Main Motor	2.2 Kw - 4Kw
Coolant Pump	Above 15 lit

HORIZONTAL SURFACE GRINDING MACHINE

Sl. No	SPECIFICATION	REQUIREMENT
TABLE		
1	Working Area	Not less than 460x200MM
2	Longitudinal Table travel automatic Hydraulically operated	Not less than 540mm
3	Cross feed table travel	Not less than 260 mm
4	Distance spindle center to table	Not less than 475 mm
WHEEL HEAD		
5	Spindle Speed	2850 RPM or Better
6	Wheel Dimension	180 x 13 x 31.75 or Better
FEEDS :-		
7	Vertical Feed Manually	0.01 mm or Better
8	Longitudinal Speed	25 mm/min
9	Cross Feed on Hand Wheel	4 mm /Rev
MOTORS :-		
10	Spindle Motor	1.5kw or better
11	Coolant Motor	0.95kw or better
12.	Parallelism	0.008 mm per entire working area
13	Flatness	0.02 mm on entire working area
14	Spindle run out	0.005 mm or better
15	Roughness value	0.02 to 0.08 microns
16	Elevation least count	0.001
STANDARD ACCESSORIES REQUIRED		
<ol style="list-style-type: none"> 1. Precision static wheel balancing unit with mandrel 2. Micro feed on vertical mechanism 3. Micro feed on cross mechanism 4. Coolant system with magnetic separator 5. Lighting equipment with low volt transformer 6. Precision vice 100mm opening 		

UNIVERSAL MILLING MACHINE

TECHNICAL SPECIFICATIONS

Type	Knee type with all three feed auto
Working Table	Not less than 1300 mm X 275 mm
Table T Slots (No./Width/Distance)	Not less than 3 nos. X 14 mm X 60 mm
Table Swivel	±45°
Spindle Nose	ISO-40
Spindle Speed Range	50 to 950 RPM (8 steps)
Longitudinal traverse	Not less than 650 mm
Cross Traverse	Not less than 230 mm
Vertical traverse	Not less than 350 mm
No. of feed	Not less than 12
Longitudinal feed range	16 to 400 mm / min
Cross feed range	16 to 400 mm / min
Vertical feed range	4 to 100 mm/min
Rapid traverse	Not less than 1000 mm/ min
Main motor	3 HP/950 RPM
Feed motor	2 HP / 950 RPM
Coolant Motor	0.1 HP/2800 RPM
Approx. Weight	2000 kg

STANDARD ACCESSORIES

Complete electricals (Motor, Starter, Fittings, control panel)	Coolant Systems
Long Arbour 25.4 mm	Lubrication Pump
Chip Tray	Vertical Milling Attachment
Machine Lamp	Service tool kit
Milling cutters (face cutter, side & Shoulder, End Mill) 1 each	Milling Vice with Swivel Base 125 mm
Operational Manual Book	Set of Foundation Bolts

ADDITIONAL ACCESSORIES

Self-Centering Vice 100 mm	Rotary Table 250 mm
115 mm Dividing head with tailstock	Slotting attachment
100 mm true chuck for dividing head	Collet chuck ISO-40
Set of collets (10 nos) 4 to 25 mm	Stub Arbour ISO-40

