

**TENDER SCHEDULE NO:- R/6**

Bill of Quantities/ Schedule of Requirements for TRADE : "ELECTRICIAN "

Shortfall of Machinery

DELEVERY POINTS:- B.P.C. ITC, P.O. Krishnagar, Dist. Nadia, PIN :- 741101

SI.No.	Description of Item with Specification	QtyRequired	UNIT	RATE (Rs)	TOTAL AMOUNT (Rs)	
					In figures	In words
1	MG Set Consisting of Squirrel Case Induction Motor 7HP 400V, 50 cycles with directly coupled DC shunt generator 5 KW 250V with built in panel board laboratory type MG Set should be mounted on a base plate. The Panel Board Consist of : 3-Phase Cir Circuit Breakers Star Delta Starter (Contact type & points) Shuck Field Regulator DC Circuit Breaker Suitable voltmeter on AC & DC side Suitable line ammeters on AC & DC side Field Circuit ammeter Indicating lamps on both the sides (AC & DC) Accessories: • Tachometer for Speed Measurement. • The circuit diagram will be supplied with the Motor. • Instruction Manual	1Set	set			
2	Motor Series DC , 220 volt , 0.5 to 2 HP , coupled with mechanical load.	1No.	each			
3	DC Shunt Motor 3HP 250V with 3 point starter and speed regulator Laboratory type Motor should be mounted on a base plate. The Panel Board Consist of : • 3 Point DC Starter. • Speed Regulator. • Suitable Analog Voltmeter. • Suitable Analog Ammeter. Accessories: • Tachometer for Speed Measurement. • The circuit diagram will be supplied with the Motor. • Instruction Manual	1No.	each			
4	DC Compound 3HP 250V with 4 Point Starter and Laboratory type Motor should be mounted on a base plate. The Panel Board Consist of : • 4 Point DC Starter. • Field Regulator • Suitable Analog Voltmeter. • Suitable Analog Ammeter.	1No.	each			

	Accessories: • Tachometer for Speed Measurement. • The circuit diagram will be supplied with the Motor. • Instruction Manual				
5	Motor AC Single Phase 230volt 50 cycles ¼ HP with starter / switch	1No.	each		
6	<p>diagram will be supplied with the Motor. • Instruction Manual</p> <p>DC Shunt Motor 3HP 250V with 3 point starter and speed regulator Laboratory type Motor should be mounted on a base plate.</p> <p>The Panel Board Consist of :</p> <ul style="list-style-type: none"> <li>• 3 Point DC Starter.</li> <li>• Speed Regulator.</li> <li>• Suitable Analog Voltmeter.</li> <li>• Suitable Analog Ammeter.</li> </ul> <p>Accessories: • Tachometer for Speed Measurement. • The circuit diagram will be supplied with the Motor. • Instruction Manual</p>	1No.	each		
7	<p>Oscilloscope</p> <p>Dual Trace /Double beam 20 MHz</p> <p>Vertical Deflection System</p> <p>Deflection Factor Range: 5mV per Division to 10V per Division in a 1 - 2 - 5 sequence of 11 steps</p> <p>Accuracy: (+) 3% Approx.</p> <p>Variable Control Range: Continuously variable and uncalibrated between step setting. Increases deflection factor by at least 2.5 to 1</p> <p>Bandwidth (-3 db): 20 MHz or more</p> <p>Rise Time: 17.5 nS or less</p> <p>AC Coupled Cut Off Frequency: 10 Hz or less</p> <p>Common Mode Rejection Ratio: At least 10 to 1 at 20 MHz</p> <p>Input Characteristics Direct Input Via 10 : 1 probe</p> <p>Resistance 1 M.Ohms + 2% 10 M.Ohms + 5%</p> <p>Capacitance 30 pF + 5 pF 20 pF + 5 pF</p> <p>Max. Safe Input Voltage (DC or AC Coupled) 400 V ( DC + AC ) Peak</p> <p>Channel Isolation: Greater than 100 : 1 at 10 MHz</p> <p>Visual Delay Time: 40 ns or more</p> <p>Invert Mode: In Channel 2 only</p> <p>Trigger System</p> <p>Trigger Sensitivity (For Auto &amp; Norm. Mode)</p> <p>Internal Signal: 0.1 Div</p> <p>External Signal: 0.2 V p-p</p> <p>TV Field Mode (Composite Sync.)</p>	1No.	each		

Internal: 2 Div  
External: 0.3 Div  
Horizontal Deflection System  
Sweep Rate: 0.2s per Div to 0.1 Micro Sec per Div in a 1 - 2 - 5  
sequence of 20 steps. Magnification extends Max. Usable  
sweep speed to 20ns per Div.  
Accuracy: ( + ) 3 % Approx.  
Variable Control: > or = 2.5 : 1  
Sweep Linearity: ( + ) 10 %  
X-Y Operation  
Deflector Factor: 0.2V/div ~0.5V/div  
Frequency Bandwidth (-3dB): DC:0~1MHz; AC: 10Hz ~ 1MHz  
Calibration Signal  
Deflection Factor: 5mV per Division to 10V per Division in a 1 - 2 - 5  
sequence of 11 steps  
Accuracy: (+) 3% Approx.  
Bandwidth: DC to at least 1 MHz  
Phase Difference Between X and Y Axis Amplifiers: < 'OR' = 3° from  
DC to 50 kHz  
Z Modulation  
Sensitivity: 5V cause noticeable modulation positive going input  
decreases intensity  
Usable Frequency Range: DC - 1 MHz  
Max. Safe Input Voltage: 50 V (DC + AC)pk  
Input Resistance: 10 K.Ohms  
Trace Rotation: Possible  
Probe Adjustment Signal Output  
Voltage into 1M.Ohms load: 0.5V + 2%  
Repetition Rate: 1 KHz + 2%  
Wave Form: Square Wave  
Cathode Ray Tube  
Display Area: 8 Div x 10 Div ( 1 Div = 1 cm )  
Nominal Accelerating Voltage: 2 KV  
Power Requirement  
Line Voltage Range: 220V + 10%  
Line Frequency: 50 Hz + 2 Hz  
Max. Power Consumption: 40W  
Mechanical Characteristics

	Weight: 7.2kg Dimensions: 320mm (L) x 124mm (W) x 380mm (D)					
8	Oil Testing Kit Confirms to IS 6792, IEC 156 Tests insulating oils to IS, IEC, ASTM, etc. Test voltage to 0 – 60 kV. One piece construction with safety interlock Test voltage can be held at any level up to maximum kV meter continues to indicate 'bdv' even after breakdown Light weight, portable, rugged and reliable Specifications Input : 240 V ±10%, AC, 1Phase, 50/60Hz. Display : Analog models: 96mm square Accuracy : ±4% of full scale deflection/range Shut down sensitivity in HV circuit : 20mA approx. Rate of rise of voltage : Motorized sets only: 2kV/second approx. (±20% max.) Dimension : 50x55x48	1No.	each			

We agree to supply the above goods in accordance with the technical specification as per terms and conditions specified in Tender Notice.

We also confirm that the normal commercial Warrantee/Gurantee of 12 months shall apply to all the offered goods.

We also confirm that we have taken steps to ensure that no person acting for us or on our behalf will engage in corrupt, fraudulent, collusive, coercive or obstructive practice.

We agree to make necessary arrangements for Inspection and Testing of all the above items at places within Kolkata Metropolitan area before dispatch to the consignee.

Signature of Supplier