

TENDER- 1/2017-18

BRANCH: MECHANICAL ENGG PRODUCTION

NAME OF LAB: MOS LAB

PACKAGE-14 A

S.No	Equipment Description	QUANTITY/UNIT REQUIRED	BID RATES OF EQUIPMENT PER UNIT(Rs.)	APPLICABLE RELEVANT TAXES PER UNIT(Rs.)	TOTAL COST OF EQUIPMENT PER UNIT(Rs.)
1	<p>Computerised Universal Testing Machine:-</p> <p>1- Measuring Capacity - 200 KN (20 T) 2- Measuring range - 0 to 200 KN 3- Least Count (approx) - 0.01 KN 4 - Load Range in KN with accuracy of measurement $\pm 1\%$, range 04 to 200 KN 5- Resolution of piston movement - 0.01 mm 6 -Maximum Clearance for Tensile Test - 50 to 700 mm 7 - Maximum Clearance for compressive Test - 0 to 700 mm 8 - Clearance between column - 500 mm 9 - Piston Stroke - 200 mm 10- Straining/ piston speed at no load - 0 to 150 mm/min. 11 - Power supply - 3 Phase, 415 volt, 50 Hz. AC Supply. 12 - Total HP approximate - 3 HP .</p> <p>Tensile Test Jaws :- Maximum width of flat 50 mm. , for flat specimen thickness 0-10mm and flat specimen 10 to 20 mm., for round specimen dia 20-30 mm and round specimen dia 10-20 mm.</p> <p>For Transvers Test :- Adjustable roller support of width - 160 mm. Dia of rollers - 30 mm. , maximum adjustable clearance 500 mm, punch tops of radius 6mm and 12 mm.</p> <p>For Compression Test:-Pair of compression plates-120 mm dia.</p> <p>a)Control Modes :- Machine to be equipped for following modes. 1- Standard mode control 2- Potentiometric control 3 - Load rate control 4 - Elongation rate control 5- Load hold control 6 - Strain rate control Also auto start, potentiometric start & initial valve open start options to be available for test start to take care of slippage & different specimen types.</p> <p>b) Software Control : Windows based software should have graph comparison. Point tracing, statistical evaluation with water fall diagram. Mean deviation, frequency distribution, skew diagram, histogram, maximum value, minimum value, mean must be there.</p> <p>c) Electronic Extensometer : Gauge length : 50mm & 25 mm, elongation of 0-2 mm, resolution 0.001 mm, Diameter of specimen to be used with extensometer is 1-20 mm, Thickness of specimen measured by extensometer is 20 mm. Maximum width of specimen is 20 mm. INCLUSIVE of PC, Printer, UPS</p>	29			
2	<p>Metallurgical microscope:- Main features Illumination system - Tungsten, Blub holder - pin type, Transformer min. 6V Samp., Optics feature -- Objective - M 4X, M10X, M20X & M40X,100X, Eyepiece - 5X & 10X paired, Magnification range 20x to 1000X</p>	27			





FULL SIGNATURE OF BIDDER WITH SEAL