

ସରକାରୀ ବହୁବୃତ୍ତି ଅନୁଷ୍ଠାନ
ମୟୂରଭଞ୍ଜ, ଟିକାରପଡ଼ା



GOVERNMENT POLYTECHNIC
MAYURBHANJ, TIKARPADA

Website: www.gpmayurbhanj.org.in

Email id: principalgpmayurbhanj@gmail.com

OFFICE OF THE PRINCIPAL, GOVERNMENT POLYTECHNIC, MAYURBHANJ-757049

No 2315 /GPM, Tikarpada, Date 13/10/24

QUOTATION CALL NOTICE

Quotations are hereby invited from authorised dealers/ suppliers/ vendors/firms having good track records for supply & Installation of Mechanical Lab Machinery/Equipments in the Government Polytechnic Mayurbhanj. Interested dealers/ suppliers/ vendors/ firms are requested to submit the quotation in a sealed cover as per the following Specifications in the address of the Principal Government Polytechnic Mayurbhanj through Speed Post/registered post/ by hand on or before dt.26.10.2026 by 1.00PM super scribing the envelope "Supply & Installation of Mechanical Lab Machinery/Equipments" and the quotations are to be opened on dt.26.10.2026 at 04.00 PM in the presence of the representatives of the intending bidders/suppliers. If they are so like. The following Specifications mentioned in separate Annexure-I.

Terms and Conditions

1. The rate should be inclusive of all taxes.
2. Rate should be quoted at F.O.R Destination Inclusive of all charges.
3. Furnishing GST Registration certificates/PAN.
4. Photo copy of the return towards payment of GST (Valid) of the Firm.
5. Period of delivery after placement of order specified.
6. The quotation should clearly mention the specifications offered in the notice.
7. On the sealed cover must be written "Quotation for Supply & Installation of Mechanical Lab Machinery/ Equipments" addressing to the Principal Government Polytechnic Mayurbhanj, Tikarpada, PIN-757049.
8. The Undersigned reserves all rights to accept or reject the quotation in full or part thereof without assigning any reason thereof. For Further details visit our institute website <https://gpmayurbhanj.org.in>

Memo No 2316 /dt. 13/10/24

Copy to the Notice Board of the institution/Institute Website/ Principal TTI Takatpur/ General Manager DIC Mayurbhanj/District Skill Development & Employment Officer, Mayurbhanj are requested to display the quotation in Notice Board for wide circulation.

Principal
Government Polytechnic,
Mayurbhanj

**Govt. Polytechnic Mayurbhanj
Tikarpada**

Principal
Government Polytechnic,
Mayurbhanj.

**Govt. Polytechnic Mayurbhanj
Tikarpada**

Annexure-I

SLNO	Equipment	Specification	Quantity	Amount
1	<u>Spring Testing Machine(Open& Closed)</u>	Specification Model/CapacityBSP-30 MaximumCapacity:5kg,10kg,20kg,30kg Maximum Cross Head Travel: 100mm Force Measuring Resolution: 0.1 kg TypeofConstruction:DoubleColumn	01	
2.	<u>ROCKWELL'S HARDNESSTESTING MACHINE</u>	TechnicalSpecifications: The Hardness Tester isdesignedtotestthehardness ofgeneralsteel,metalsandsomenon-metals to the Rockwell Hardness Test Method using A, B, C scale. ☐ Testmethod:Rockwellhardnesstest,Superficial ☐ hardnesstest Preliminary test ☐ force:29.42,98.07N(3,10kgf) ☐ Totaltestforce:15,30,45,60, ☐ 100,150kgf Duration time ☐ setting: TA,TB,TC ☐ Up-down system:Manual ☐ Distanceindenterforframe:1 65mm Hardness minimum value: 0.1HR Conversionfunction:HRA,HRB,HRC,HRD,HRE,HFG,HR15N,HR30N,HR45N,HR15T, HR15T, HR30T, HR45T, HV, HBS, HS, MPA. ☐ Dataoutput:RS-232C,SPC(on/off)selectatablelineachoutputtype Powersupply:ACinput-100-240v,50-60hz,1.2ADCoutput12v-3.5A	01	
3.	<u>Bomb Calorimeter</u> BombCalorimeter(forsolid&liquidfuels)&JunkersGasCalorimeter	A. BOMB CALORIMETER ☐ As per IP-12 & ASTM D 4809 IS 1448(P-6), IS 1350 complete with one stainless steel bomb 300cc. ☐ capacity with crucible (18/8),jacket with motorized stirrer, calorimeter vessel, briquette press, firing unit, pressure gauge with copper pipe fittings, 2 mtrs nichrome wire 40 swg & digital thermometer. B. BOYSGAS CALORIMETER(FORGASEOUS FUEL): Aim: TodeterminetheCalorificValueofGaseousFuel DomesticGas). Consists of : * DoublewalledS.Vesselthicklyinsulatedwithglasswool intheannularspace. * Doublepasscoppercoilandshellassemblythroughwhichtheburntfuelpasses through. * Thechimneythroughwhichtheburntfuelpasses fromtheburnerkeptbeneaththis. * The top of the shell is insulated with the thick wooden cover and provided with spouts through which the burnt fuel passes through. * The provision is made to circulate the water through the copper coil, and to measure the flow rate directly on the Rotameter. Supplied with Mini Gas Cylinder with Burner and Control Valve to burn the fuel. * RotameterisprovidedformeasurementofflowRateofGas. * Digital Temperature Indicator with temperature sensor provided to measure the temperature difference incirculatingwater,andtemperature differenceintheburntfuel. * The provision is madeto fix theGas burner on the scissor jack andto adjusttheheight to bring the flame close to the chimney portion.	01	

4.	<u>CONRADSON CARBON RESIDUE APPARATUS-FOUR TEST</u>	1.Name of equipment Conradson Carbon Residue Apparatus – Four Test, Electrically Heated 2. Application Determination of carbon residue in petroleum products and lubricating oils 3. Test standard ASTM D189-24 or applicable current edition 4.Test capacity Four samples simultaneously 5.Heating system Electrical heating, with four independent heating positions 6.Temperature control Separate energy regulator for each test position 7.Temperature indication Digital temperature indicator/controller, preferably for each position 8.Heating element High-temperature-resistant electrical heating element 9.Crucible arrangement Four complete test assemblies, each consisting of a sample crucible, Skidmore iron crucible and outer iron crucible 10.Porcelain/silica crucible Capacity 29–31 mL; rim diameter 46–49 mm 11.Skidmore iron crucible Capacity 65–82 mL; height 37–39 mm; with cover 12.Outer iron crucible Top outside diameter 78–82 mm; height 58–60 mm; with cover 13.Heating support Four suitable heat-resistant supports and refractory insulating blocks 14.Protective arrangement Metal hoods/covers and suitable thermal insulation for all four test positions 15.Electrical supply 230 V AC, 50 Hz, single phase, subject to manufacturer's rated load 16.Safety features Proper earthing, insulated electrical connections, over-temperature protection and individual heater control 17.Accessories Four complete crucible sets, supports, covers, glass beads, dry sand and operating manual 18.Installation Ready-to-use laboratory tabletop unit	01	
5.	<u>Cracks detection using (i) Visual inspection and ring test (ii) Die penetration test (iii) Magnetic particle test</u>	Cracks detection using (i) Visual inspection and ring test (ii) Die penetration test (iii) Magnetic particle test Salient Features Portable equipment for magnetic particle inspection Delivers AC for surface and HWDC for sub-surface flaw detection Articulating and double-jointed legs contour easily to any shape to assure good contact Handy and Light Weight, safe for Operators Strong and rugged constructions Built standard for continuous inspection Inspect weld joints also Lifting Capacity- 27Kgs, In DC & 5Kgs in AC mode A/D. AC / HWDC 220 V 50Hz Puffer Bulb for powders spray- 1 No. Pie Gauge/Field Indicator – 01 No. Yoke Carrying Case - 1 No. Operational Manual - 1 No Red Dry Powder for MPI- ½ Kg. 2. Visual inspection microscope with accessories for demonstration Base size : 380mm X 250mm Framediameter: 50mm Load table size: 180mm X 120mm 3. Die penetration test kit with accessories for demonstration cleaner, penetrant, and developer for complete testing. High Sensitivity: Effectively detects surface-breaking defects	01	

06	<u>Insulating Slab and metal rod thermal Conductivity Apparatus</u>	a. Determination of Thermal Conductivity of Metal (Aluminium). b. To study the temperature gradient along the length of the rod. CONSISTS OF : Aluminium rod 40mm dia. and 400mm length (approx.). Temperature controller with heater for 220V, AC supply. Temperature measurement by thermocouple and digital temperature indicator. All the above instrumentation mounted on a Control Panel. Circulating water chest at one end with necessary water connection. Rotameter for direct measurement for water flow rate. The whole arrangement is mounted on a self-contained unit.) 10a. THERMAL CONDUCTIVITY OF METAL ROD USE: 1. Determination of Thermal Conductivity of Metal (Aluminium). 2. To study the temperature gradient along the length of the rod. CONSISTS OF : Aluminium rod 40mm dia. and 400mm length (approx.). * Temperature controller with heater for 220V, AC supply. * Temperature measurement by thermocouple and digital temperature indicator. All the above instrumentation mounted on a Control Panel. * Circulating water chest at one end with necessary water connection. Rotameter for direct measurement for water flow rate. The whole arrangement is mounted on a self-contained unit. THERMAL CONDUCTIVITY OF COMPOSITE WALLS USES: 1. Determination of overall Thermal Conductivity of the Composite material. 2. Determination of Thermal Conductivity of individual material. 3. To study the temperature gradient along the length. CONSISTS OF: * Aluminium, Graphite/Brass / SS and Cast Iron of 40mm dia and 400mm length (total) approx. * Temperature controller with heater for 220V, AC supply. * Temperature measurement by thermocouple and digital temperature indicator. * Multi-channel temperature indicator with channel selector. * The whole arrangement is mounted on a self-contained unit. * Thermostat to control the heater temperature.	01	
----	---	--	----	--


 Principal
 Government Polytechnic,
 Mayurbhanj.
Govt. Polytechnic Mayurbhanj
Tikarpada