

GOVT. COLLEGE OF ENGINEERING & TECHNOLOGY, BIKANER**SCHEDULE - G**

NIT NO. :-CET/STORE/2014-15/05

Tender for :- Metrology lab for Mech. Engg. Dept.

Sale of Tender :- Up to 12 Noon 15.4.2015

Last date of Tender Submission:-2.00 PM, 15.4.2015

Opening Date of Tender:- 2.00PM, 16.4.2015

Bid Validity: 90 days from bid opening date

Estimated Cost:- Rs. 650000/-

Earnest Money:-Rs. 13000 /-

Tender Cost:- Rs. 200/- (By Hand)

Tender Cost:- Rs. 240/- (By Post) (D.D.)

Delivery period:- 45 Days from order

S. No.	Name of Equipment	Specifications	Quantity	Rate
1	Computer integrated microscope unit	<p>40x-2000x levels of magnification; Eyepiece - 10X, 15X Objectives - DIN ACH 4X, 10X, 40X(SP), 100X(DIN) 6V 20W Halogen lamp with intensity regulator, 110/220V Double layer mechanical stage with co-axial fine and coarse focus knobs 100 X D100 mm mechanical stage with up/down stopper NA1.25 Abbe Condenser with iris diaphragm and filters Metal construction Shall be with Dust cover Revolver- 4 bulb type Built-in 3.0MP USB camera featuring advanced software (Windows compatible) With software and accessories to be computer compatible Computer unit – 14” screen, preferable make-HP/Lenevo/Dell; CPU- i3 processor; 240 MBm memory; RAM – 3GB ; preferable make-HP/Lenevo/Dell Should be provided with Microscopy imaging analysis software like MetaMorph/ BioimageXD/ Micro-Manager etc</p>	1	
2	Profile projector	<p>Protractor screen Effective diameter required: Approx 300 mm Screen material required: Fine ground glass Reference line required: Cross hair line Screen rotation: $\pm 360^\circ$, fine feed and clamp Angle display(LED): Resolution: 1' or 0.01°(switchable), Range: $\pm 370^\circ$, Magnification accuracy Contour illumination: $\pm 0.1\%$ or less Surface: illumination $\pm 0.15\%$ or less Contour illumination light source required: Halogen bulb(24V 150W) or equivalent</p>	1	

		<p>Functions: Brightness adjustment, Heat-absorbing filter, Cooling fan</p> <p>Surface illumination light source: Halogen bulb(24V 150W) Optical system: Vertical / Oblique illumination with an adjustable condenser lens</p> <p>XY Range required: Approx 150x150mm</p> <p>Resolution .001in / 0.001mm</p> <p>Measuring Unit Built in Linear scale</p> <p>Table size required: Approx 300x250mm</p> <p>Workpiece height required: Approx 100mm</p> <p>Workpiece load bearing capacity required: Approx 10kg</p> <p>Power supply 120V AC, 50/60Hz</p> <p>Standard accessories required: 10x projection lens set, masking shield, power cord, halogen bulb -2 nos. ,fuse, grounding wire, allen key, vinyl cover</p>		
3	Three- Wire Thread Measuring Systems	<p>For various type of threads. threads For measurement of Pitch Diameter ; Minor Diameter ; Helix Angles ; Components – wire holders and wires, base assemblies, vertically adjustable off-set platforms for positioning & supporting threaded parts and plug gauges between anvils of micrometer , micrometer with digital output, with least count approx 0.05 mm, locking clamps for micrometer holding in position</p>	1	
4	Bevel Protector	<p>Blade length- 300mm Graduation: 5 min. (0° - 90° - 0°) Blade edge angle: 30° 45° and 60° Shall be able attached to height gages Material – stainless steel with Satin finished chrome. Preferred make- Mitutoyo/Chicago or equivalent Accessories required - Magnifying reading lens, interchangeable beam and case</p>	2	
5	Telescopic gauge	<p>Provide with Spring-loaded plunger expands within the bore for determination of the internal diameter, clamp should be knurled, should be Supplied in a fitted wooden box Range- 8 - 150mm Required piece in set – 5 or 6 gage set Material – stainless steel with Satin finished chrome.</p>	1	

		Preferred make- Mitutoyo/Chicago or equivalent		
6	Monochromatic light source with Optical flat	<p>Optical flats- made from fine annealed material Single sided and Double sided. 30 Ø, 50 Ø, 100 Ø, Accuracy $\lambda/4$, $\lambda/6$, $\lambda/10$. Shall be supplied in wooden storing cases.</p> <p>Monochromatic Check light - required for gauging flatness of finished parts with the help of Optical Flats & shall be compatible with the optical flat provided. Red band for high accuracy and blue band for normal accuracy requirements. Size of base shall be approx – 50 cmx50 cm</p>	1	
7	Dial gauge- Depth	<p>Range – 1” Graduation – 0.001” Range/rev – 0.100” Material – stainless steel with Satin finished chrome.</p>	2	
8	Dial indicator & accessories	<p>Dial gauge – range 1” Graduation – 0.001” Range/rev – 0.100” Two extra points – e.g tapered/button/wide face/flat/any other Compatible swivel set of two pieces Compatible holding rod set of two pieces with base of size approx 5 cm x 5 cm One piece of internal hole attachment & right angle attachment; approx range – ½”</p>	2	
9	CAST IRON BASE UNIVERSAL COMPARATORS	<p>Assembly of cast iron base plate, pillar to hold dial indicator accessory & Dial gauge set – dial gauge with 2” range, swivel, attachment rod & housing assembly to mount on pillar etc Dial gauge – range 2” Graduation – 0.001” Range/rev – 0.100” Two extra points – e.g tapered/button/wide face/flat/any other Compatible swivel set of two pieces Compatible holding rod set of two pieces One piece of internal hole attachment & right angle attachment; approx range – ½” Dial gauge assembly can be locked at any position on pillar. Base size- approx 200 x200 mm</p>	1	
10	Granite base with accessories	<p>for precision gauging, inspection, layout and marking purposes Made from close grained Granite having uniform colour & Rexine cover provided for top working surface with each texture Should be supplied with Rexine cover provided for top working surface</p>	1	

		<p>Size –approx 30cm x 30 cm Should be supplied with M.S stand T-slot , at least three, shall be provided through out the length for mounting accessories. Compulsory accessories-</p> <ol style="list-style-type: none"> 1. GEAR PCD RUNOUT CHECKING ATTACHMENT <ul style="list-style-type: none"> - for checking PCD of Spur/Helical Gears with reference to the Gear Axis - shall be provided with a set of 3 suitable locking balls & as per T-slot of granite base - Gear modules between 1.5 to 7 2. Inspection Bench Center with dial gauge attachment <ul style="list-style-type: none"> - for checking various parameters like Concentricity, Face / Radial Run-out, True running, etc - Height of center – 150 mm approx - Shall be clampable on granite base T slots - Shall be provided with required accessories to hold job like dead centres etc - Dial gauge set – dial gauge with ½ “ range, swivel, attachment rod, base etc 		
11	Spirit level	<p>Made from stress relieved Cast Iron, working faces precision hand-scraped. Main vials shall have graduation on each side of the bubbles Fool proof adjustment to avoid tempering, once set. Sensitivity approx 0.01 mm/m, 0.02 mm/m, 0.05 mm/m & 0.1 mm/m in 200 mm and 300 mm length Should be provided with wooden storing case.</p>	2	

Terms and conditions:-

- All page of tender should be signed and stamped.
- STCC is required. Party may be asked for the sample/demo.
- Tenderer must be manufacturer / Authorized Dealer/ Supplier having authorization of quoted item.
- Mention basic rate of items & taxes if any separately for each item..
- Rate includes loading & Unloading at concerned lab./ workshop & FOR College of Engineering & Technology, Bikaner
- Successful firm has to submit agreement on stamp paper of Rs. 500 (Form 17) along with SD money @ 5% of order value before issue of order.
- Committee has right to cancel tender of all or any item.
- Tender will be finalized item wise.
- In case of any clarification same can be clarify from store.
- Without EMD tender will be rejected out rightly.
- EMD and form charges should be in favor of Principal College of Engineering & Technology, Bikaner in shape of DD/Banker Cheque only.
- Order will be given in installment as or when required.
- Conditional Tender will not be accepted.
- SSI unit EMD & Tender cost assumption should be as per Raj. Govt. rule

HOD STORE