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Enquiry No.: SMVDU/DoME/2017/

Date: 13.02.17

M/s _____

Sub: Quotations invited for supply and installation of equipments for Materials Science and Engineering Lab. in the Deptt. of Mechanical Engineering

Dear Sir,

You are requested to submit your sealed quotation in favour of the undersigned for the following as per the terms and conditions given below and overleaf:

S. No.	Instrument	Specifications	Qty
1	Digital Surface Roughness Tester	Revolutionary portable model with Skid / Skidless method Colour graphic LCD touch screen display with backlight Flat & Curved Surface roughness measurement R-Surface Compensation for curved surfaces Measuring Range: X axis: 25mm, Z axis : 800µm (1600µm with 2x stylus, 2400µm with 3x stylus) Cut-off lengths (λ_c): 0.08, 0.25, 0.8, 2.5, 8mm Tilt adjustment range: $\pm 1.5^\circ$, Height adjustment : 10mm Minimum resolution: 0.000125µm Roughness Parameters: Ra, Rq, Rz, Ry, Rp, Rv, Rt, R3z, Rsk, Rku, Rc, R _{Pc} , R _{Sm} , R _{max} *1, R _{z1max} *2, S, HSC, R _{zJIS} *3, R _{ppi} , R _{Δa} , R _{Δq} , R _{lr} , R _{mr} , R _{mr(c)} , R _{σc} , Rk, Rpk, Rvk, Mr1, Mr2, A1, A2, Vo, λa, λq, Lo, Rpm, tp*4, Htp*4, R, Rx, AR, W, AW, Wx, Wte, Possible Customize	1

2	Jominy End Quench Tester	Total length and the diameter of the test piece used should be 100 ± 0.5 mm and 25 (+ 0.5; - 0.0) mm respectively. Vertical water supply pipe have internal diameter of 12.5 ± 0.5 mm Free water jet have height of 65 ± 10 mm Distance between tip of nozzle and bottom of test piece is 12.5 ± 0.5 mm	1
3	Sintering Furnace	Maximum Temperature: 1600°C Heating rate: 0-10°C/min Accuracy : +-1°C Power: 110-415V 50/60Hz Chamber Size: 120*300mm	1
4	Erichsen Cupping Testing Machine	Width of sample: 70-90 mm Thickness of sample: 0.1-2.0 mm Least Count: 0.01 mm	1
5	Crystallography Structure Models	BCC, FCC, HCP, etc.	1
6	Crystallography Imperfection Models	Point imperfection, Line imperfection, Surface and Grain Boundary imperfection	1
7	Impact Tester (Izod/Charpy) for plastics	Capacity: 2.00 - 25.00 Joules (Hammers for IZOD & CHARPY). Display: Digital As per ASTM D 256 & Relative IS standard. Close chamber to retain tested sample inside. Hammer & jig arrangement for both Izod & Charpy Impact . Standard automatic notch cutter.	1
8	Universal Testing machine for plastics	Capacity: min. possible, 50 KN / 100KN with accuracy of 0.1 N. Test Arrangement: Tensile , Flexural (3&4 point bending) , Compressive & Shear strength test . Machine Type: Automatic with computer system. Machine shall be capable to show the graph for stress & Strain. Machine speed: Machine shall be capable to maintain speed of 0.01 mm/min to 1000 mm/ min with an accuracy of 0.01 mm/min. Standard: Machine shall be capable to perform as per ASTM D 638 & other relative standards.	1
9	Infra Red Temperature Sensor	Temperature Range: -50 Centigrade to 1000 Centigrade System Accuracy (mA output) ±1% of measured value or ±1°C System Repeatability ±0.5% of measured value Digital Display	1
10	Micro Hardness Tester	Computerized enabled with image analysis software and Auto Turret Specifications: Testing force: up to 1000gms Loading: Automatic Minimum measurement scale: as low as possible	1

