

VIDYA PRATISHTHAN, BARAMATI
TENDER NOTICE: FOR PURCHASE OF LABORATORY EQUIPMENT

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SN	Equipment Name	Detailed Specifications	QTY
SERVER MACHINE			
1	COMPUTER SERVER: DELL PowerEdge R940xa	Processor: 2x Intel® Xeon® Gold 5222 3.8G, 4C/8T, 10.4GT/s, 16.5M Cache, Turbo, HT (105W) DDR4-2933 Memory: 64GB RDIMM, 3200MT/s, Dual Rank, 16Gb Socket / Chipset: 2, LGA3647 / Intel C620 NVIDIA GPU: Nvidia Ampere A40 GPUs Drive bays : 10 bays, 6 fully flexible (NVMe or SATA), +2 SATA, + 2 NVMe Drive types : SSD 10TB Storage Controller: PERC H730P and H750 PCIe Slots: Up to 10 Dual Width Full Length PCIe Slots (with 4 PCIe switching hubs) – accelerator slots. Additionally, up to 8 full height and 1 low profile x16 PCIe slots in rear Embedded Networking: Broadcom 57412 Dual Port 10GbE SFP+ & 5720 Dual Port 1GbE BASE-T rNDC System Management: iDRAC Group Manager, Enabled Power Supply: 1+0 Power Supply, Non-Redundant Configuration, 1600W, 250 Volt 50 Hz Rack: 2U Combo Drop-In/Stab-In Rail that supports 4U chassis	1
2	All in one Touch Screen PC	All-in-One Desktop 12th Gen Core i7, 16x1 GB RAM, 1 TB SSD, 23.8" FHD IPS Touchscreen, Standard USB, Ethernet, CDMA etc. ports	25

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MECHANICAL ENGG			
1	Computer controller IOT based Advanced Electro-Hydraulic Trainer Kit	Single acting cylinder	3
		Double acting cylinder with hydraulic press	2
		Pressure Gauges 0-160 kg/cm ² ; Vacuum Gauge 0-760mm of Hg	2
		Pressure Switches	2
		Latchable Lever Operated DCV	1
		Spring return lever operated DCV	2
		One sided solenoid operated DCV	2
		Two-sided solenoid operated DCV	1
		Shut off valve	2
		Pressure Relief Valve	1
		Speed Control valve	2
		Pilot valve	1
		T distributor	2
		V union distributor	1
		Power Pack (Sump) 25 L	1
		Sequencing valve	2
		Accumulator	1
		Following circuits can be built using the said electro-hydraulic trainer kit in Manual Mode and using PLC and IoT Devices Control of Single and Double Acting Cylinder Automatic Reciprocation of Cylinder Meter-in, Meter-out (Speed Control) Circuit Regenerative Circuit Sequencing Circuit It would have mounted on single table with three sided faces along with separate PLC, Compressor Etc Cloud Space - 2 Gb Gateway – REST API Software – IOT based Hydraulic Controller	

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2	Computer controller IOT based advance Electro-Pneumatic Trainer	3/2-way Valve- Pneumatically actuated, spring return	2
		One-way flow control valve Assembly	2
		5/2-way Valve- with Manually Operated switch	2
		5/2-way Valve- Pneumatically actuated, spring return	2
		5/2-way Double solenoid valve: with manual override	2
		Shuttle Valve (OR), 1/4"-, Twin pressure valve (AND)	1
		FRL Unit with Pressure Gauge: 0-16 Bar	1
		Manifold with self-closing: NRV, 6-Way	1
		Time Delay Valve: The timer switches Input pressure applied to port 1 to port 2 after the preset delay time has expired., 1/4" Connection, Operating pressure 2 – 6 bar, Timing range :20 - 300 S	2
		Pneumatic Flow Regulator Valve	1
		It would have mounted on single table with three sided faces along with separate PLC, Compressor etc Cloud Space to be mentioned - 2 Gb Gateway to mentioned – REST API Software to be specified – IOT based Hydraulic Controller	
3	Collaborative Robot + AI + FMS + Logistic BOT + compressor	Ai based Mitsubishi Collaborative robot (Cobot) 6 axis, Payload 5kg Reach 900 mm radius Position repeatability +/-0.03 mm High speed operation mode 1000 mm/sec Collaborative operation mode 250 mm/sec Collaborative operation mode 50 mm/sec Teach Pendent with 7m cable length. Safety equipment indicator: Multi-color LED display robot status. Cobot can be directly interface with electric gripper/force sensor/vision (plug and play). Air piping, pneumatic tubing for gripper actuation. Built-in solenoid valve set for gripper actuation (pneumatic). Standard DIs and Dos and Safety Dis / DOs. Ethernet Compatibility (Robot payload 5 Kg + Controller + Tab) Vision based System, gripping system, Controller Stand + Racks + MCB, etc... 30 + examples Integration with IOT FMS. Controller Power supply Cables and connector Input Unit along with Software All the Gripper will be demonstrated through the PLC on Robot.	1
4	Logistic Bot	Industry-exclusive Dual SLAM Solution for Full Coverage in Any Scenario Design Aesthetics3D Omnidirectional Obstacle Avoidance In pursuit of higher safety, Bot is equipped with 3D sensors and a new modular chassis. It can stop at any angle and move away as soon as it encounters obstacles. Minimum height of object detection is 2cm Obstacle detection frequency up to 5400 times per minute Front detection angle up to192.64° Front obstacle detection range exceeds 10m. BOT for Logistic, help & support for Customer, used in Offices. Pay load 15 kg. Used in any ambient temperature and levelled floor.	1

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5	FMS System	<p>The Modular technology developed for research and innovation, which can be adopted for any new smart Manufacturing need or production facility. The open frame programming helps students / research to work on multiple codes and visualize in real time. It Includes</p> <p>Feeding Station Virtual Drilling station Sorting station based on drill depth inspection Sorting station based on metal/ non- metal inspection Sorting station based on Color identification Inspection station Rotatory Indexing station Synchronization of various system through PLC Conveyor System 1500 mm X 300 mm based on Induction motor Conveyor station 350MM X 2 Qty Drilling Motor X – slide Cartesian system approx. 500 mm reach Sensor – Optical, Depth, Inductive, color, vision, lock gate, Proximity, Speed, Infrared, Actuators – Magnetic pneumatic Actuators, Pneumatic Gripper, Magnetic gripper, Magnetic pneumatic rotatory Actuators, Suction Cup, Magnetic Gripper, HMI & PLC Station Mitsubishi, Display - 7" , - Monochrome Variable frequency drive (VFD) Mitsubishi, 1Kw to 750kw & speed 10 to 1 & 100 to 1 stepper motor with driver Qty – 4, SMPS 24 V, SSR Compressor 9 L, 1 HP Max 10 bar 4 Axis Dobot robot. Actuator Fixture for holding component, mounting extensions, solenoid valve, reed switches etc. The complete system mounted on Industrial grade aluminum section for modularity. Learning outcomes from MMS (Modular Manufacturing System) are listed below balanced informative content practical experience real-life industrial components intuitive approaches to problem-solving working on student's mind set to develop his own technology or entrepreneurship skill.</p>	1
6	SCADA Software	<p>Mitsubishi / Siemens SCADA Water (5-year lease license) A SCADA system is a widely distributed computerized system primarily used to remotely control and monitor the condition of field-based assets from a central location. Field-based assets include wells, pump stations, valves, treatment plants, tanks, and reservoirs The Study help students to develop the integrated system for multi complex operations</p>	1 Plant
7	Mechatronics Sensor Trainer Kits with Application	<p>Ultrasonic sensor kit,</p> <p>Temperature Sensor Kit,</p> <p>IR Sensor Kit,</p> <p>Proximity Sensor Kit,</p> <p>LDR sensor Kit,</p> <p>Speed Sensor kit 1,</p> <p>Displacement Sensor kit (linear & Angular),</p> <p>Force Sensor Kit,</p> <p>Pressure Sensor Kit,</p> <p>Tactile Sensor Kit</p> <p>PLC Analog & Digital Sensor Kit</p>	1 1 1 1 1 1 1 1 1 1

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8	Siemens PLC S7 -1200 workstation	Siemens PLC S7 -1200 Make: Siemens; HMI size 9"; No. of Ports 8; Digital I/P and O/P 16; Analog I/P 5; Analog O/P :5; Cable set 30; PLC SMPS 24V 4.5 Amps;230V AC supply.	1
		PLC Trainer Kit along with PLC software and application as Car Parking and Traffic Light Control system Power Supply: Input -230V AC, 50Hz Supply Output – 24VDC, 3Amp, Digital Inputs with LEDs and simulator switches, Digital outputs with status LED, PLC (Ladder) programming Software along with Programming Cable, PLC functionality with CPU. Sensors (Inductive, Proximity & Capacitive etc.), HMI Siemens , Electrical wires for performing different Practical's.	
		For CAR Parking , as per above specifications	2
		For Traffic Light Control system , as per above specifications	2
9	Rapid Prototyping Machine	Physical dimensions(DWH): 955mmx1040mmx925mm(36.41in x 40.99in x 37.59in) Input power**: 100-120VAC/180-250VAC Power consumption: 1750W Max Input frequency: 47-63Hz Build volume: 125litre(33.02gallon) Maximum printable area(Dual: 500mm x 500mm x 500mm(19.68inx19.68inx19.68in) extruder): High performance heated bed 150W 230V Heated bed: 1.75mm(0.06in) Filament diameter: 0.6mm/0.5mm/0.4mm(0.019in/0.15) Extruder diameter: 400° C Extruder temperature: 2 Number of extruder: Direct Drive all metal liquid cooled extruder Model of extruder: Engineering grade thermoplastic – ABS, ABS+, ASA, PLA CF, PETG,HIPS, PC, PC-ABS, Flexible filament, PLA, PLA Tough, AFPM Special, PACF+, ESD PC, NYLON PMXX Desired materials: Non hygroscopic HIPS Material support: Non hygroscopic HIPS Maximum print speed: 300mm/s Build rate(material deposition rate): 30-50cm ³ /hour Layer precision: 0.1-0.25mm(0.35mm possible for 0.5mm Nozzle) Printed Output Accuracy: +/- 80-150 microns or 0.2% of overall geometry whichever is greater Heat bed: Yes Bed Temperature: 115°C max. Auto Bed Leveling: Yes LCD support: Yes Connectivity: USB, Wi-Fi &Ethernet. Print Monitoring System: In build camera with Wi-Fi connectivity Software supported: Repetier, Cura, Custom Software for DBZ, Kislicer Stepper motor: 1.8 Degree steps angle With 1:256microstepping Positioning accuracy: 16 microns Enclosure: Power coated 5mm sheet metal body Total machine weight: 250Kg Run time change setting option: Yes Pause print option: Semi-automatic-Yes(pause and resume even after extruder movement) Active Carbon Filter: Yes Filaments sensor: YES.(filament flow notification) Multiple user id: YES. Multiple secure access to machine control software XY Precision: Positional accuracy 16 micron using HIWIN High Precision Linear Guide Rails. Z precision: Patented precision Z axis mechanism with electromechanically synchronized four ball screws and moving XY gantry Supporting System: Windows and Mac SD standalone format: .gcode Noise level: Less than 55db Input Formats: .stl Active Filadry: Spares Machine Startup Kit (Highflow Hotend, Extruder Sensor, Extruder Cartridge Heater, Filament-Nylon - 1 Unit)	1

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10	Rapid Prototyping Machine	<p>Maximum Printable Area: 400mm*300mm*300mm Filament Diameter: 1.75mm Extruder Diameter: 0.6mm Extruder Temperature: Upto305°C Number Of Extruders: 1 Model Of Extruders: Direct Drive All metal extruder Recommended Materials: Engineering grade thermoplastic –ABS, ABS+, ASA, PLA CF, PETG, HIPS, PC, Nylon, PC-ABS, Flexible filament, PLA, PLA Tough Material Support: Same as print material Print Accuracy: 80 - 150 microns or 0.2% of overall geometry whichever is greater. Maximum Print Speed: 200 mm/sec Maximum Travel Speed: 300mm/sec Layer Precision: 0.1-0.30 mm Display: 7 inch Touch Screen Heated Bed: Yes Bed Temperature: 90 °C max LCD Support: Yes Connectivity: Wi-Fi (AP-Mode) Ethernet Print Monitoring System: In Built Camera with Wi-Fi connectivity Enclosure Type: Complete enclosed chassis including Spool Software Supported: Repetier, Cura, Custom Software for DBZ &Kislicer Power Requirement: 220VAC, 50 Hz, 1000 Watt PSU Run Time Change Setting Option: Yes Warranty: 1 Year Filaments sensor: YES.(filament flow notification) Pause Print Option: Yes (pause and resume even after extruder Movement). XY Precision: HIWIN High Precision Linear Guide Rails with 16 micron positional accuracy. Z Precision: Precision Z axis mechanism with Ball Screw and stable XY gantry. Noise level: Less than 60db Active Filadry Machine Startup Kit (Highflow Hotend, Extruder Sensor, Extruder Cartridge Heater, Nylon/PC-750gm)</p>	1
11	3D Printer cum Laser engraver (FDM) cum wood engraver	<p>Built volume : 125 x 125 x 125 mm (4.9" x 4.9" x 4.9") Extruder nozzle diameter : 400 micron, Print speed : 100mm/s, Touchscreen : Color with size 3.5" Depth : 335 mm (13.2") Height : 289 mm (11.4") Width : 272 mm (10.7") Frame Material: Aluminum Alloy File Transfer: USB Disk, USB Cable Power Requirement: 100 - 240V AC Supported OS : macOS, Windows Heated Bed: Up to 80°C Print Head Travel Speed : Up to 100 mm/s Nozzle Diameter : 0.4 mm Nozzle Temperature : Up to 250°C Layer Resolution : 50 - 300 microns Supported Materials : Non-proprietary 1.75 mm PLA, ABS, etc. Supported File Types : STL, OBJ</p>	1

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12	CNC	<p>Capacity: Swing over bed: 500 mm Std Turning Dia: 300 mm Max Turning Dia: 490 mm Max Turning Length: 500 mm</p> <p>Slides: X-Axis Travel (Cross): 250 mm Z-Axis Travel (Longitudinal): 520 mm Rapid Feed (X & Z Axis): 24 m/min</p> <p>Main Spindle: Spindle Motor Power- Fanuc: 15/11 kW Spindle Speed range: 50-3500 rpm Spindle Bore: 90 mm Spindle Nose: A₂8 Max Bar Capacity: 75 mm</p> <p>Turret: No of Tool Station: 8 Max. Boring Bar Dia: 40 mm Tool Size (cross Sectional): 25x25 mm</p> <p>Tailstock: Quill Dia: 85 mm Quill Stroke: 120 mm Max Thrust: 500 kgf</p> <p>Accuracy: Positioning Uncertainty (P): 0.007 mm Repeatability: 0.005 mm</p>	1
13	VMC	<p>Table: Table Size: 800x500 mm T-Slot Dimension: 4x14x100 mm Distance from Floor to Table: 965 mm Max. Load on Table: 400 kg</p> <p>Capacity: Dis. From Spindle Face to Table Top: 150-660 mm</p> <p>Slides: X-Axis Travel: 600 mm Y-Axis Travel: 450 mm Z-Axis Travel: 510 mm</p> <p>Feed: Rapid Traverse (X, Y & Z Axis): 40 m/min Cutting Feed: 10 m/min</p> <p>Main Spindle: Spindle Motor Power- Fanuc: 15/11 kW Spindle Speed: 60-6000 rpm Front Bearing Bore: 70 mm Spindle Nose: BT40</p> <p>Automatic tool Changer: No of Tool: 20 Max. Tool Dia. Pockets: 80/125 mm Max. Tool Weight: 7 kg Max. Tool Length: 250 mm</p> <p>Accuracy: Positioning Uncertainty (P): 0.01 mm Repeatability: 0.005 mm</p>	

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14	Portable Surface Roughness Tester	<p>Measurement Direction : Surface roughness measurement in both X and Y-axes. Able to perform measurements in any orientation, including both vertical and upside-down.</p> <p>Display : 52.1 x 65.8 x 160 mm Built-in, color LCD display. The display provides operators with sectional calculation results, assessed profiles, load curves and amplitude distribution curves in addition to calculation results. Built-in 2.4-inch color graphic, back-lit LCD display which will provide excellent readability, visibility and is easy-to-use in dark environments.</p> <p>Accessories : Height gage adapter (To efficiently performs measurements in various situations and setups).</p> <p>Internal memory : Able to store up to 10 measurement conditions and one measured profile & compatibility. Optional memory card to store large quantities of measured profiles and conditions.</p> <p>Standards compatibility : JIS (JIS-B0601-2001, JIS-B0601-1994, JIS B0601-1982), ISO-1997, and ANSI.</p> <p>Measuring Speed : 0.75 mm/s</p> <p>Returning Speed: 0.039in/s / 1mm/s</p> <p>Detector Z-Range: 360µm,</p> <p>Detector Z-Range Resolution: 0.002µm</p> <p>Skid Radius of Curvature: 40mm</p> <p>Skid Force : Up to 400mN</p> <p>Detector Type : Differential inductance</p> <p>Power Supply (battery) : Rechargeable Ni-MH with AC Adapter</p> <p>Endurance : 1000 measurements</p> <p>External Data Storage : Micro SD card</p>	1
15	Desktop Robotic Arm (Industrial Desktop Robot)	<p>Payload capacity: 500 gms,</p> <p>Motion Range: 440 mm</p> <p>Controlled Axes : 4</p> <p>Repeatability : +/- 0.05 mm</p> <p>Motion Speed : Min. 25 Deg / s</p> <p>Power Input : 100 to 240 V AC</p> <p>Rated Voltage : 48 V</p> <p>Rated Power : 240 W</p> <p>Communication : TCP/IP, Modbus TCP,</p> <p>Installation : Desktop</p> <p>Base Dimensions : 190 mm x 190 mm</p> <p>Interface (BASE) : Digital Input – 16, Digital Output - 16, Ethernet - 2, USB2.0 – 2, Encoder Input – 1,</p> <p>Interface (END) : Digital Input – 2, Digital Output - 2, Airway -1</p>	10
16	Hand-held 3D scanner	<p>Accuracy : Up to 0.07 mm</p> <p>Accuracy over distance : Up to 0.1 mm over 1 m</p> <p>Point resolution : Up to 0.15 mm</p> <p>Depth of view : 180-300 mm</p> <p>Field of view : Min 86x115 mm, Max 144x192 mm</p> <p>Light source : Blue LED</p> <p>Frame Rate : 25-30 fps</p> <p>Data Acquisition speed : Up to 3M points/sec</p> <p>Touchscreen : Minimum 4 inch</p>	1

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17	Mini Conveyor Belt System	<p>Conveyor Belt: Payload: 500 g, Effective delivering distance: 600 mm, Maximum speed: 120 mm/s, Maximum acceleration: 1100 mm/s² Dimension: 700 mm × 215 mm × 60 mm</p> <p>Distance measuring sensor unit: Measurable range: 20 ~ 150 mm Signal: Analog Output Input: 4.5 - 5.5 V</p> <p>Color recognizing sensor unit Input 20 ~ 150 mm Detectable: non-glowing object White LED embedded, on/off controllable</p>	1
18	Crawler Robot: Robotics Intebot	<p>MODEL: A1 Quadruped Payload Capacity : 5 kg Operating Time (Battery) : 2.5 h Weight : 12 to 15 kg Width : 300 mm Length : 620 mm Maximum Speed (Outdoor) : 3.3m/s (11.88km/h) External Interfaces : 4x USB, 2x HDMI, 2x Ethernet Depth Distance (CAMERA) : Up to 10 m Motor Specifications : Maximum Torque : 33.5 N.m Weight : 605 g Operating Voltage : 12 – 30 V (24V recommended) Maximum current : 40 A Maximum Speed : 21 rad/s Torque Constant : 0.8372 N.m/A Communication Method : RS485 Motor and Encoder resolution : 15 bit</p>	1

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ELECTRICAL ENGINEERING			
1	Standalone/ Grid connected converters for interfacing of renewable energy sources	Grid-Tied Solar Power Generation Training System with Solar panel rating: 1 KW Single phase grid tied inverter Rated output power : 1kW Max DC input voltage : 450V Max DC input current : 10A MPPT operation range : 50V-400V Rating grid voltage : 230V AC Grid voltage range : 180V AC-230V AC Grid rating output current : 4.3A Rating grid frequency : 50 Hz Protection : DC reverse polarity, AC short circuit, Islanding, temperature, etc. Digital meters: DC voltmeter : 300 V DC ammeter : 20 A AC voltmeter : 450 V AC ammeter : 10 A Bidirectional energy meter : 1 no. Multifunction meter : 1 no. Load : 1.2 KW, resistive load Rheostat : 50 W, 15 A x 1 no	1
2	Power System Kit: Radial and Ring main Distribution System	Mains Supply : 230V ±10%V AC, 50Hz Inbuilt DC Output Supply Rated Voltage : 0 – 220V ±10% (Variable) Rated Current : 2 A Transformer Rating : 0.5 kVA Primary Voltage : 230 V Secondary Voltage : 150 V Input : 230 V Output : 0-270 V Current : 2 A Digital DC Voltmeter (3 Nos.) Range : 20-500V Display Resolution : 1V Digital DC Ammeter (3 Nos.) Range : 0-5A Display Resolution : 0.01 A	1
3	Battery Characteristics Training System	Lithium-Ion Battery Characteristics Training System 12 V 7.8 Ah PWM based charge controller	1

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CHEMISTRY			
1	Benchtop Doublebeam UV-Visible Spectrophotometer	Wavelength Range: 190-1100 nm Spectral Bandwidth: 1 nm Wavelength reproducibility: 0. 1 nm Photometric accuracy: ±0. 3 % Display: 320 x 240 Graphic LCD Power: AC 220V/ 50Hz Light Source : Halogen & Deuterium Lamps (Pre-Aligned) Detector: Silicon Photodiode	1
2	Ductless Fume	External Dimension : 1800 X 915 X 2300 (mm) Internal Dimension: 1600 x 645 x 1250 (mm) Worktop height: 900 mm Fluorescent Light Intensity: 900-1000 lux Exhaust Outlet Diameter: 12" Air Velocity: ≥0.5 m/s Noise Level: <65 dB (A) Electrical Fittings: 4 to 5 electrical sockets with switches Power Supply: 220-240 VAC, 50 Hz	1

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CIVIL			
1	Cement Mortar Mixer	Model/Type: customise Capacity: 6 litre	1
2	Shrinkage test apparatus	Dial gauge range: 0~10mm Standard rod length: 540±0.02m	1
3	Permeability test apparatus for concrete	Size 150mm dia X 150mm high. Pressure Gauge of 15kg/cm ² (15 Bar)	1
4	Rapid Chloride Penetration Test	RCPT Test Apparatus with 4 Port Plexiglass Chamber- 4 Pairs	1
5	Concrete Elastic modulus test apparatus	Power: Compression force, Digital Display, Specimen size: Φ150x300mm 150x150x300mm 100x100x300mm	1
6	Torsion Testing Machine	Max. torque capacity (Nm)=500 Torque Resolution (Nm)= 0.05 Angle of twist (Degree)=0.1 Torsion speed and irection=1.5 RPM Reverse Distance between grips (mm)=0-500	1
7	Shake Table	Table size : 2 m x 2 m Payload capacity 500 to 10000 kg. Table stroke up to 1500 mm. Operating frequency up to 70Hz. Data acquisition rates up to 40kHz.	1
8	Digital concrete Rebound Hammer	Impact Energy-2.207Nm Compressive Strength-10-70MPa Display-Analog and backlit digital (100 x 100px) Product Dimensions- 274.3 x 83.8 x 61mm	1
9	Concrete scanner	Locating depth (max.)-200 mm Accuracy (+/-) 5 mm	1
10	Loading frame	Capacity 100 T Material Mild Steel, Beams Loading max. 3 mtr. Length, Columns under compressive Load max. 2-3 mtr., Slab - UDLTesting - 3 x 2 mtr	1

Address for Submitting Quotations:

Principal
Vidya Pratishan's Kamalnayan Bajaj Institute of Engineering & Technology,
Vidyanagari, Bhigwan Road, MIDC, Baramati
District: Pune, PIN Code: 413133

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