



# Panipat Institute of Engineering & Technology

Approved by A.I.C.T.E. & Affiliated to Kurukshetra University, Kurukshetra.  
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**Ref. No.:** PIET/AICTEIDEALab/2021/01  
23/12/2021

**Date:**

To

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**Subject: Quotation for supply of following machines, tools and materials in AICTE IDEA Lab PIET**

**Dear Sir,**

You are requested to quote rate of the following machines, tools and materials in AICTE IDEA Lab PIET with standard terms and conditions for the supply to this institution.

S. No.	Name of equipment's	Technical Specifications	Quantity
1.	CO <sub>2</sub> Laser Cutter	(100-Watt Laser Power, Bed Size 4x3 feet, Cutting Materials- Non-Metal)	1
2.	Printed Circuit Board (PCB) Milling Machine	Cutttable Material Modeling Wax, Chemical Wood, Foam, Acrylic, Poly acetate, ABS, PC board X, Y, and Z Operation Strokes 8 (X) x 6 (Y) x 2.38 (Z) inches, 203.2 (X) x 152.4 (Y) x 60.5 (Z) mm Workpiece table size 9.14 (X) x 6.17 (Y) inches, 232.2 (X) x 156.6 (Y) mm Distance From Collet Tip to TableMaximum, 5.15 in (130.75mm) Loadable Workpiece Weight 4.4 lbs (2kg) X-, Y-, and Z-Axis Drive System Stepping motor Operating Speed 0.24 – 70.87inch/min, 6 – 1800mm/min Software Resolution 0.000039 inches/step (RML-1), 0.000039 inches/step (NC code), 0.01 mm/step (RML-1), 0.001mm/step (NC code)	1

		<p>Mechanical Resolution 0.0000393 inches/step, 0.000998594 mm/step          Spindle Motor DC motor Type 380          Spindle Rotation Speed Adjustable 3,000 – 7,000 rpm          Cutting Tool Chuck Collet method          Interface USB          Control Command Sets RML-1, NC code          Power Requirements Machine: DC24V, 2.5A,          Dedicated AC adapter: AC 100-240V ±10%, 50/60Hz          Power Consumption Approx. 50W</p>	
3.	Computers	i7, 8gb RAM, 11 <sup>th</sup> generation, 512 SSD, Window 10	30 Nos.
4.	Mini Desktop Lathe cum milling	Tool room	1
5.	CNC Milling	Tool room mill CNC	1
6.	Handheld High Speed Drilling Machine	15000 RPM and Accessories	2
7.	Advanced motorized Sewing Machine		1
8.	Digital Microscope	<p>Specifications of the Metallurgical Microscope with Digital Camera:          Microscope Body: Sturdy Microscope body with Transmitted Light 3 W or More LED illumination suitable for Bright Filed, Polarization &amp; Reflected Light 3W or more LED for Bright Field with built in manual Coaxial coarse and fine adjustment, 200 graduations, 1 μm precision per graduation, 200 μm per rotation, with travel range min. 24 mm. Should have an adjustable rack stop to prevent damage to sample and objectives. The coarse adjustments should be equipped with friction control. Trinocular tube head with rotating system to provide ergonomic variable position at different heights should be provided Eyepieces: 10X with F.O.V 20 mm or better and dioptr adjustment facility on both eyes, Stage: System must include min. 150 x 140 mm stage with integrated mechanical XY stage with metal and glass inserts both to hold sample. Condenser Height Adjustable condenser with min N.A of 1.25 with Iris or more suitable for Bright field, Dark field and Polarization microscopy techniques. Nosepiece: Quinteple Revolving Nosepiece with min 5 objectives or more should be provided. Objectives: High performance Infinity corrected</p>	1

		antifungus objectives suitable for transmitted & Reflected light Bright field/Darkfield, Polarization material microscopy having good quality with below magnification / min Numerical Aperture should be provided. → Plan Achromat or better 5 x /0.12 → Plan Achromat or better 10 X /0.25 → Plan Achromat or better 20 X /0.40 → Plan Achromat or better 50X /0.70 → Plan Achromat or better.100x / 0.80mm Tender reference No. IITK/MSE/MSL/2019-20/01 Digital High-Resolution Microscopic Camera: Min. 10 Mega Digital High-Resolution Microscopic Camera: Min. 10 Mega Pixel or better CCD/CMOS Camera with pixel size 1.67x1.67 μm With Live display mode: high frame Electronic facility, Fire wire/USB interface for easy installation/ transfer data to Desktop for analysis, with C mount Camera adapter of 0.45 with calibration Slide. should be quoted with Image analysis Software with Measurement (like Angle, line, Vertical line, Circle, Ellipse Polygon etc facility should be provided the quoted system should be having CE certification or other equivalent international certifications Microscope, Camera and Image Analysing software should be from same manufacturer for better compatibility	
9.	Mixed Storage Oscilloscope	200 MHz, 4 channel, 16 channel logic analyser, high resolution	1
10.	Benchtop Multi-meter	5.5 digit	1
11.	Quadcopter Assembly		1
12.	Smart Board		1
13.	Relay Modules	(Ethernet controlled relay, Bluetooth controlled relay, Wi-Fi controlled relay 8 Channels)	5
14.	GPIO Modules	(Ethernet controlled relay, Bluetooth controlled relay, Wi-Fi controlled relay 8 Channels)	5
15.	Electric bicycle motors and Accessories		1
16.	Granite Surface plate	(630 X 630 X 80 mm grade “O”)	1



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**Ref. No.:** PIET/AICTEIDEALab/2021/02  
23/12/2021

**Date:**

To

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**Subject: Quotation for suppling the following Consumable, tools and equipment's for AICTE IDEA Lab PIET**

**Dear Sir,**

S. No.	Name of equipment's	Technical Specifications	Quantity
1.	Vacuum Cleaner		2
2.	Hot air Gun		5
3.	Clothes Iron		5
<b>Tools</b>			
S. No.	Name of equipment's	Technical Specifications	Quantity
1.	Cordless Drilling Machines		1
2.	Belt and Disc Sanding Machine		1
3.	Scroll Saw Machine		1
4.	Tool Wall covering Perforator		3
5.	Dremel Moto Saw		1
6.	Digital Vernier Caliper (5 Nos.)		5
7.	Dremel Cordless Rotary Tool		1
8.	Power Router		1
9.	Sewing Machine		1
10.	Impact Drill		3
11.	Router Bit Starter kit		1
12.	Scroll Saw		1
13.	Hot air Blower with Soldering Iron		5
14.	Cutting Mats		5
15.	Allen Set wrench		5
16.	Tongue and Groove Plier		5
17.	Non-contact voltage tester		5
18.	Fish Tape		5
19.	Flashlight		2
20.	Filament Dehydrator		1
21.	Reflow Oven		1

**The quotations must be sent on proforma attached in your letter head, in sealed cover or through email (idea\_lab@piet.co.in) or send sealed envelope of the quotations at Panipat Institute of engineering and technology**

**Terms and Conditions:**

1. Evaluation will be done based on technical specifications as per our tender notice.
2. Financial bids will be open only for those, who meets all technical specifications.
3. Complete literature/specifications on the quoted model should be attached.
4. Quotation should carry proper certifications like proprietary certificate, authorization certificate from manufacturer, etc.
5. Vendor should have an installation base in reputed organization in India for same/similar models. A list with contact information should be provided.
6. After installation system's functionality should be demonstrated. The cost of installation and demonstration at customer site should be included in total cost.
7. Quotations must be valid for at least 20 days.
8. The Institute reserves the right of accepting or rejecting any quotations without assigning any reason thereof.
10. Following Information should also be provided by the bidder
  - i. Optional accessories if any provided, with reference sample
  - ii. Clear statement of improvement for future availability of updated software etc. should be included if any along with instrument.
  - iii. Installation and training by your expert application engineer should be within the quoted amount.
  - iv. Packing/Forwarding charges if any should be separately mentioned.
  - v. Other charges if any.
11. Quotation must indicate FCA / FOB or FOR prices.
12. The delivery period should be specifically stated. Early delivery may be preferred.
13. Warranty/Guarantee should be clearly mentioned. The Warranty must start from the date of installation at PIET. Extended warranty if any clearly mention in the documents.
14. Maximum educational discounts should be applied.
15. All equipment must be compatible with Indian electrical standards and codes. Engineering documentation on the physical sizes and weights of all major and minor components must be submitted.
16. The penalty @1% per week or part thereof subject to max 10% will be deducted from the balance payment if supply/integration is not completed within aforesaid delivery period.
17. The indenter reserves the right to withhold placement of final order. The right to reject all or any of the quotations and to split up the requirements or relax any or all the above conditions without assigning any reason is reserved.
18. At any time prior to the deadline for submission of bid, the Institute may, for any reason, at its own initiative, modify the bid document by amendments. Such amendments shall be uploaded on the website through corrigendum and shall form an integral part of bid document. The relevant clauses of the bid document shall be treated as amended accordingly. It shall be the sole responsibility of the prospective bidders to check the website from time to time for any amendment in the tender document. In case of failure to get the amendments, if any, the Institute shall not be responsible for it.