

03rd February, 2022

Tender Notice

Tenders/Quotations are invited from reputed Companies / supply agencies for the equipment, tools, and machines for AICTE-Idea Lab of Sree Vidyanikethan Engineering College.

Details of specification of required items are as follows:

S.No.	Equipment	Specification	QTY
1.	CNC Wood Router	1. Area : 1300mm X 2500mm X 200mm (x,y,z) 2. Control Cabinet 3. T Slot Table 4. Safety cover for the work table 5. woodcarving bits (With Tool Kit Box) 6. clamps for fixturing material on the table 7. Dust collection system Usage: Wood, ACP, Poly Carbonate, Acrylic, Plastic, Acrylic, (May be Metal)	1
2.	Laser Cutter	1. 100-1000 Watt Laser 2. 1200X900 mm Bed Size 3. UPS 4. Air Compressor Usage: Leather, Mirror Acrylic, MDF, Fabric, Wood, Acrylic, Paper, Rexine, Eva Sheet, Thermocol (May be metals)	1
3.	3D Scanner	1. Portable/ stand mounting 2. High accuracy and resolution 3. Hybrid geometry and color based tracking 4. Software	1
4.	3D Printer (FDM)	1. Build Area : min 500X500 X 500mm 2. Print Speed : 50 - 200 mm/sec 3. Single Nozzle or Dual Nozzle 4. Heated Build Platform 5. Operating Control : Touch Screen Display 6. Filaments ABS/PLA/Flexible/PETG Carbon fused ABS/Composites 7. Connectivity : USB / SD Card Lighting (May be WiFi)	1
5.	Snapmaker 2.0 A350T	3D Printing Laser Engraving & Cutting CNC Carving	2
6.	PCB Milling or PCB Prototype machine	PCB Milling and antenna Designing machine with accessories and simulation software. Cuttable Material Modeling Wax, Chemical Wood, Foam, Acrylic, Poly acetate, ABS, PC board X, Y, and Z Operations. (EX:PCB MATE 300W, PCB cabinet, single and Double side copper clads, drill bits, engraving bits, spring collecting chuck tool bit holder, PCB, washing tube, scrubbing tools, digital microscope)	1

S.No.	Equipment	Specification	QTY
7.	Sublimation Printer & Machine	Metal Heat Press 5 in 1 Multi-Functional Machine with Sublimation Printer Epson L130 with Sublimation Ink	1
8.	Heavy Duty Laser Printer	Multi-Function Monochrome Laser Printer with Auto Duplex Printing Connectivity - USB, POWER SOURCE: 220 - 240 V AC 50/60 Hz Pages Per Minute - 30 ppm Page Size Supported - A4, Letter, A5, A5(Long Edge), A6, Executive, Legal, Folio, Mexico Legal, India Legal; Duplex Print - Auto Compatible Laser Toner - TN-2365 Standard Toner Cartridge; Page Yield - 2600 pages	2
9.	Computer Workstation	i7, 16gb RAM, 11th generation, 512 SSD, Window 10	5
10.	Mixed Signal Oscilloscope	PC Based 100MHZ Mixed Signal Oscilloscope. 2 Analog + 8 logic + 2 DAQ Capture Channels. 200uV Maximum Sensitivity	2
11.	Vacuum Cleaner	Compact Bagless Vacuum Cleaner Power cyclone 5 technology separates dust from air, Action radius: 9 m, Cord length: 6m ;1900W motor for strong suction power, Sound power level: 82 dB, Airflow (max): 37 l/s, Dimensions of product (LxWxH): 410 x 281 x 247mm; Suction power (max): 370W ,Input power (IEC): 1600W, Vacuum (max) :33kPa. Weight of product: 4.5 kg Turbo Brush removes 25 percent more hairs and dust, Multiclean nozzle for thorough floor cleaning	2
12.	Reflow oven	AC220V/60Hz Power rating: 1500W Maximum soldering area: 300*320Mm Temperature range:(0-280)/oC	1
13.	Smart board	55inch 10 point touch screen IFP panel for teaching, in built speaker, Android interface, Play media, video and presentation for teaching. Can also use as teaching board to write.	1
14.	Quadcopter Assembly kit		1
Electronic work bench set up (4 Sets)			
15.	Solder Stations	Heavy Duty Soldering Gun; Hot Air Gun: Heavy duty motor with 6 Amp, 2000 watts blows hot air up to 550L/Min and comes with variable temperature Settings from 350-550 degree centigrade, Deflux 100gm, soldering Lead,	
	Desoldering Machine	Professional 220V-40W Electrically Heated Manual Desoldering Pump	
	Magnifying Glass with Stand	Magnifying Glass with Double Arm, Set Of Pliers, Iron Stand.	
	Digital Storage Oscilloscope	MINI DS212 Digital Storage Oscilloscope Portable Bandwidth 1MHz Sampling Rate 10MSa/s202078	
	Signal Generator(Arbitrary)	2 Channel, 125 MS/s Arbitrary Waveform Generator & ArbExplorer Software; includes instrument synchronization cable	
	Variable Power Supply	➤ DC Regulated Variable Adjustable Digital Power Supply 0-30V / 3A	

S.No.	Equipment	Specification	QTY
	Benchtop Multimeter	<ul style="list-style-type: none"> ➤ 6.5 digit resolution ➤ Basic V dc accuracy of up to 0.0024% Dual display ➤ 100 μA to 10 A current range, with up to 100 pA resolution ➤ Wide ohms range from 10 Ω to 1 GΩ with up to 10 $\mu\Omega$ resolution ➤ 2 x 4 ohms 4-wire measurement technique ➤ Both models measure frequency and period ➤ 8846A also measures capacitance and temperature ➤ USB memory drive port (8846A) ➤ Fluke 45 and Agilent 34401A emulation ➤ Graphical display ➤ Trendplot™ paperless recorder mode, statistics, histogram ➤ CAT I 1000 V, CAT II 600 V ➤ Three-year warranty 	
	Manual PCB Drilling Machine ,	Manual Hand Drill Machine 1/4-inch with 13. Pieces HSS Drill Set for Soft Metal, Wood, Plastic, etc	
	Digital multimeter	Handheld model	
	Glue Gun	Glue gun with Sticks(10 for each Gun)	
	Copper clads	Single and double side copper clads with scrubing and washing material	
	NodeMCU boards	ESP8266, ESP32, ESP32 CAM Development Board	
	Sensor set	-	
	Arduino UNO boards	-	
	Raspberry Pi 4 boards	-	
	BeagleBone AI for Artificial Ingelligence based application	-	
TOOLS			
1.	Projector	EPSON EB X49	2
2.	White Marker board	6 Ft X 4 Ft	2
3.	Cordless Drilling Machines	-	2
4.	Power Tools	Electronic tool kit-1 Mechanical tool kit-1	2
5.	Clothes Iron	-	2
6.	Screwdriver Sets (2sets)	Electronic tool kit-1 Mechanical tool kit-1	2
7.	First Aid Box	-	2
8.	Bosch Grinding Handheld	-	1
9.	Measuring Equipment	[(Vernier Calliper (0-200/0.01), Vernier height gauge (0-1000mm), Micrometer 0-50, 50-100/0.01 inside and outside)], Metal Scale, Tape	1
10.	Hacksaw set	-	5
11.	Mini HackSaw set	-	5

S.No.	Equipment	Specification	QTY
12.	Pliers set	-	3
13.	Screwdriver Sets	-	2
14.	Files Set	-	2
15.	Hammer set	Ball peen, Nylon Tipped, etc	2
16.	Allen Key Set	-	2
17.	Double ended spanner sets	-	2
18.	12 Piece open ended Spanner Set	-	2
19.	Pen drives	16 GB, 32GB	4
20.	Stationary Kit	Tape, Cutter, Scissor, Punch, Stapler (Big, Small), Jump clips, Metal paper clips, Notice board pins, etc.	2 Sets

The quotations must be sent on proforma attached in your letter head, in sealed cover or through email (aictesvecidealab@vidyanikethan.edu) or send sealed envelope of the quotations at Sree Vidyanikethan Engineering College, Tirupati.

Terms and Conditions:

1. Evaluation will be done based on technical specifications as per our tender notice.
2. Financial bids will be considered only for those, who meet 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 30 days.
8. The Institute reserves the right of accepting or rejecting any quotations without assigning any reason thereof.
9. 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.

10. Quotation must indicate transportation charges.
11. The delivery period should be specifically stated. Early delivery may be preferred.
12. Warranty/Guarantee should be clearly mentioned. The Warranty must start from the date of installation at SVEC. Extended warranty if any clearly mention in the documents.
13. Maximum educational discounts should be applied.
14. All equipment must be compatible with Indian electrical standards and codes.
15. Engineering documentation on the physical sizes and weights of all major and minor components must be submitted.
16. 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.
17. 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.


Coordinator
AICTE IDEA LAB


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