



Mahavir Education Trust's

**SHAH & ANCHOR KUTCHHI ENGINEERING COLLEGE**

Mahavir Education Trust Chowk, W. T. Patil Marg, Near Dukes Company, Chembur, Mumbai- 400 088.

AUTONOMOUS INSTITUTE AFFILIATED TO UNIVERSITY OF MUMBAI

**AICTE SPONSORED IDEA LAB**

IGNITE INNOVATION, THOUGHTS GO BEYOND THE WORLD

DATE: 28-05-2025

Email: idealab@sakec.ac.in

**STANDARD BIDDING DOCUMENT FOR PURCHASE OF EQUIPMENT UNDER  
AICTE-IDEA LAB IN SAKEC, MUMBAI**

Part 1: Complete Bidding Document Name of work: purchase of equipment under  
AICTE-IDEA Lab in SHAH & ANCHOR KUTCHHI ENGINEERING COLLEGE, MUMBAI

**PRESS NOTICE**

Notice for Inviting E-tender/Quotations through email idealab@sakec.ac.in	
Name of work	Purchase of equipment under AICTE-IDEA Lab in SAKEC, MUMBAI
Tender Docs Fee + E Service fees (Non-refundable)	Not Applicable
Earnest Money	Not Applicable
Tenders to be mailed till: 5:00PM on dated 05.06.2025	
The tenders will be received only through E-tendering/Quotations through e-mail idealab@sakec.ac.in for further details visit website www.sakec.ac.in	

For & on behalf of SAKEC,Mumbai

**Dr. Bhavesh Patel**

**(Chief Mentor, IDEA Lab & Principal)**

## IDEA LAB - (TOOLS)

Sr.No	Name	Quantity required
1	Vinyl cutter	1
2	3D Scanner	1
3	Mini Laptop Lathe Cum Milling	1
4	Solder stations (5nos)	5
5	Desoldering M/C	5
6	Advanced, Motorized Sewing Machine	1
7	Portable Welding M/C	1
8	Refrigerator	1
9	Normal and Microwave Oven	1
10	Magnifying glass With Stand - 2 no.	2
11	Digital Microscope	1
12	Mixed Signal Oscilloscope	1
13	Benchtop Multimeter	1
14	PCB Bubble etching machine	1
15	Quadcopter Assembly Kit	1
16	Relay Modules(Ethernet Controlled relay, Bluetooth controlled relay, wi-fi controlled relay 8 channel)	1
17	GPO Modules (Ethernet Controlled relay, Bluetooth controlled relay, wi-fi controlled relay 8 channel)	1
18	Electric Bicycle Motor & accessories	1
19	Granite Surface Plate ( 630 X 630 X 80 mm grade "O")	1
20	Combo heat press (5in1) printer, sublimation ink, paper, heat tape, etc	1

## IDEA LAB - Optional Equipment - Consumable

Sr. No	Name	Quantity required
1	Hot Air Gun- 5 Nos,	5
2	Clothes Iron (5 units)	5
3	3d printer filament	2
4	acrylic sheet (2-3-4-5 mm all of area 8ft x 4ft) 2 sheet each	2
	acrylic sheet multipurpose for craft, fish tank 12 inch x 18 inch	2
5	Foam sheet (8-10-12-15m all fo area 8ft x 4ft) 2 sheet each	8
	8mm 8ft x 4ft	2
	12mm 8ft x 4ft	2
	15mm 8ft x 4ft	2
6	Ply board (8-12-18mm all of area 8ft x 4ft) 2 sheets each	6
	8mm 8ft x 4ft	2
	12mm 8ft x 4ft	2
	18mm 8ft x 4ft	2
7	Nylon rods (12-15-18-25 mm all of length 1m) 5each	15
	12mm length 1mm	5
	15mm length 1mm	5
	18mm length 1mm	5
	25mm length 1mm	5
8	pvc pipes (0.75,1,2,2.5,3, Length 10ft)	1
9	0.75 length 10ft	1
	1 length 10ft	1
	1.5 length 10ft	1
	2.5 length 10ft	1
	3 length 10ft	1
10	Aluminum channel (l,c,box,length 12ft) 2each	6
11	strip	2
12	Carpentry boring bits (entire kit) 1kit	1
13	boring wood flat drill bit set 6 pieces	1

## IDEA LAB - (TOOLS)

14	Resistor	10
15	100Ω, 1/4w	10
	1kΩ, 1/4w	10
	2kΩ, 1/4w	10
	2.2Ω, 1/4w	10
	4.2Ω, 1/4w	10
	4.7Ω, 1/4w	10
	100kΩ, 1/4w	10
	470k Ω, 1/4w	10
	560k Ω, 1/4w	10
	8.2k Ω, 1/4w	10
16	capacitor	10
	10mfd	10
	0.47uf	10
	0.22uf	10
	100pf	10
	0.02uf	10
	2.2uf	10
	0.047uf	10
	33uf	10
17	diode (1n4007)	10
18	zener diode 7.5v 1/2w	10
19	transistors npn	10
20	LAN Cable 1mtr	5

## IDEA LAB - Optional Equipment - Consumable

Sr. No	Name	Quantity Required
1	Coil Winding M/c motorized	1
2	Plotter -Printer	1
3	HAM Radio transceiver, antenna and related equipment	1
4	Sensor set including sensors for Home/ Industry/Agriculture Automation, Medical diagnosis	1
5	NodeMCU (ESP8266) boards (10) sets (10 sets including USB A to B cable + male-male connecting wires + female to female connecting wires + male-female connecting wires)	10
6	Raspberry Pi 4 boards (05 sets including HDMI - mini HDMI connector, Memory card of 8 GB, adaptor, casing)	5
7	BeagleBone AI for Artificial Intelligence based.applications (5 Sets)	5
8	BeagleBone -Black-Wireless 5 sets)	5
9	Peripheral sets for Arduino/NodeMCU/Raspberry Pi (10 sets)	10
10	ESP32 CAM Development Board WiFi+Bluetooth with OV2640 Camera Module (5 sets)	5
11	Solnoi Electronics Raspberry Pi 3 Camera Module Night Vision Camera (5 sets)	5

## IDEA LAB - (TOOLS)

Sr. No	Name	Quantity Required
1	Tool Wall covering Perforator (3 pcs)	3
2	Stainless Steel Rule(5 Nos.)	5
3	Router Bit Starter kit	1
4	Centrifugal Blower	1
5	Cutting Mats (5 Nos.)	1
6	Hot Air Gun- 5 Nos.	5
7	Air Compressor	1
8	Non-contact voltage tester (5 pcs)	0
9	Fish Tape (2 pcs)	2
10	Flashlights (2 pcs)	2
11	Glass Cutter	1
12	Gypsum (10kg)	1