



Indian Institute of Technology Bhilai
District-Durg, Chhattisgarh, India – 491002
www.iitbhilai.ac.in

Enquiry No. IITBh/Goods/ECE/2024-25/373

Dated: 11-12-2024

Notice Inviting Quotation (NIQ)

Sub: Inviting Quotation for Supply of Lab Consumables for Basic Electronics Lab at IIT Bhilai.

Department of ECE, Indian Institute of Technology Bhilai, would like to procure the following items. Bidders are advised to submit duly filled bids in the following format:

S. No.	Quotation Required For	No. of Units	Total Price in Rupees
1.	Lab Consumables for Basic Electronics Lab (Annexure-1)	As per Annexure-1	
2.		Packing & Transportation Charges, if any	
3.		Any other charges, if any (Mention clearly)	
4.		GST in Rs.	
		Total of 1 to 4	

Note: GST should be quoted as per the Government norms, In case due to any error/ oversight, the GST quoted by the bidder is less than the actual rate as per tariff, the bidder will not be permitted to rectify the error/oversight. The orders/ contract will be placed for the total amount including the (lower) rate/s quoted by the bidder, with reduced basic amount to the extent of difference in tax amount, so that the total amount (basic + actual rate as per tariff), remains same(quoted basic + quoted rate). The difference amount payable, if any, between the quoted rate and actual rate as per tariff shall be borne by the bidder.

We are inviting the detailed quotations for the above items in sealed envelopes to be submitted on or before **18-12-2024 by 3.00 PM** at Department of ECE, IIT-Bhilai.

Terms and Conditions:

1. The bidder who is meeting the above specifications and quoting the lowest rate for supply of required items will be awarded the contract.
2. **Total value wise evaluation will be applicable to decide the lowest bid.**
3. Prices should be in Indian Rupees and should be inclusive of all Taxes, Duties & FOR IIT Bhilai.
4. The items shall be required to be delivered to the office of the Department of ECE through Stores & Purchase Section of IIT Bhilai at the risk and cost of the bidder, if applicable.
5. **Warranty/Shelf life: 06 month at least**
6. Your Quotation must be valid for minimum of 90 days from the date of opening of tender.
7. The items should be as per the standard quality of material as mentioned in technical specifications.
8. The required items should be shared with the indenter before supplying the same to IIT Bhilai. Any request for a change should be acceptable to the supplier.
9. **Delivery should be completed within 30 days from the date of purchase order.**
10. GST Number should be clearly mentioned in your offer, failing which your offer may not be considered.

11. Advance payment is not admissible. Payment shall normally be made within 30 days subject to receipt and acceptance (as per Work Order Terms) of the ordered materials/items.
12. Any other information that you may like to obtain, you are free to contact IIT Bhilai through mail at sp@iitbhilai.ac.in before submission of quote.
13. IIT Bhilai reserves the right to accept and/or to reject the bid without assigning any reason.
14. If the Seller/Service Provider fails to deliver any or all of the Goods/Services within the original/re-fixed delivery period(s) specified in the contract, the Buyer will be entitled to deduct/recover the Liquidated Damages for the delay, unless covered under Force Majeure conditions aforesaid, @ 0.5% of the contract value of delayed quantity per week or part of the week of delayed period as pre-estimated damages not exceeding 10% of the contract value of delayed quantity without any controversy/dispute of any sort whatsoever.
15. Tender may please be submitted in (closed and sealed Envelope) addressing as below, on or before 18-12-2024 by 03:00 PM in sealed cover only, super scribed with Enquiry No. & last date of receiving & subject as mentioned in NIQ.


Stores and Purchase Section
Indian Institute of Technology, Bhilai
Village-Kutelabhata, District-Durg,
Chhattisgarh, India 491002

S. No	Item	Type	Specification	Qty
1	Capacitor	Through hole	4.7 μ F 25 V, electrolytic	500
2	Transformer Central tapped	Through hole	(6V-0-6V) copper	50
3	Transistor	Through hole	BC107/BC547	1000
4	Transistor PNP	Through hole	BC557	1000
5	P-N Diode	Through hole	IN4007	1000
6	NAND gate	Through hole	IC 7400	200
7	NOR gate	Through hole	IC 7402	200
8	AND gate	Through hole	IC 7408	200
9	OR gate	Through hole	IC 7432	200
10	NOT gate	Through hole	IC 7404	200
11	XOR gate	Through hole	IC 7486	200
12	IC (MUX)	Through hole	74150	200
13	IC (De-MUX)	Through hole	74154	200
14	Digital LCR Meter	NA	Capacitance(μ F) : 20, 200, 2000, 200nF, 200pF, 20nF, 2nF, 2 μ F Frequency (kHz) : \pm (1.0% +20), 20, 200 Resistance(k Ω) : 2, 20, 200, 200 Ω , 20M Ω , 20 Ω , 2M Ω Inductance: \pm (2.0% + 5digit), 200mH, 200 μ H, 20mH, 2mH	5
15	Arduino UNO Board	NA	with through hole IC Atmega 328P	50
16	JK Flip-Flops	Through hole	7476, 14 pin	200
17	SR Flip-Flop	Through hole	SN74LS279A, 16-pin	200
18	LEDs (each colour 200nos)	Through hole	5mm : Red, Blue, Green, Yellow, White	1000
19	OP-AMP	Through hole	LM-741	300
20	OP-AMP	Through hole	LM324, 14 pin IC	100
21	Priority Encoder	Through hole	74LS148, 16 pin IC	100
22	Single Strand Wire	90 meter bundle	0.35mm-0.50mm, 4 Nos (each different colour)	4
23	Multi Stand Wire	90 meter bundle	0.25mm sq, 4 Nos (each different colour)	4
24	Tester	Taparia or better	Overall length: 200 mm	30
25	Soldering wire	NA	40 g reel	10
26	Glue Gun	NA	65Watts	5
27	Glue stick	NA		50
28	Zero PCB	NA	4*4 inch	30
29	Zero PCB	NA	4*6 inch	30
30	Zero PCB	NA	6*8 inch	30
31	9 V battery	NA	for multi-meter with battery clip	20
32	Adjustable Printed Circuit Board Holder Frame PCB Soldering Assembly Stand Clamp	NA		
33	PVC transparent box	NA	20x12x5 cm	200
34	PVC transparent box	NA	38x23x12 cm	10

35	Nose Plier Taparia or better	NA	5" Inch	40
36	SCREWDRIVER	2-IN-1	(PLUS/MINUS) (FLAT/TORX) Standard Screwdriver 4 inch	40
37	SCREWDRIVER	2-IN-1	(PLUS/MINUS) (FLAT/TORX) Standard Screwdriver 6 inch	5
38	SCREWDRIVER	2-IN-1	(PLUS/MINUS) (FLAT/TORX) Standard Screwdriver 8 inch	3
39	SCREWDRIVER	2-IN-1	(PLUS/MINUS) (FLAT/TORX) Standard Screwdriver 10 inch	3
40	Transistor	Through hole	2N2222A	200
41	Measuring Tape	NA	5mtrs	2
42	Sensor Module Arduino compatible	Through hole	PIR	15
43	Sensor Module Arduino compatible	Through hole	IR Obstacle Proximity	15
44	Sensor Module Arduino compatible	Through hole	Pressure BMP 280	15
45	Sensor Module Arduino compatible	Through hole	Transmitter Receiver RF 433MHz	15
46	Sensor Module Arduino compatible	Through hole	Ultrasonic	15
47	Sensor Module Arduino compatible	Through hole	ML8511	15
48	Sensor Module Arduino compatible	Through hole	LDR Photosensitive 5mm	15
49	Sensor Module Arduino compatible	Through hole	IR Trans Receiver Module	15
50	Sensor Module Arduino compatible	Through hole	Bluetooth HC05	15
51	Sensor Module Arduino compatible	Through hole	MQ135	15
52	Sensor Module Arduino compatible	Through hole	Moisture	15
53	Sensor Module Arduino compatible	Through hole	LM-35	15
54	Sensor Module Arduino compatible	Through hole	ADC1115	15
55	Sensor Module Arduino compatible	Through hole	RTC	15
56	Sensor Module Arduino compatible	Through hole	DHT22	15
57	Sensor Module Arduino compatible	Through hole	Dust PM2.5 & PM10	15
58	Sensor Module Arduino compatible	Through hole	GY-61	15
59	Sensor Module Arduino compatible	Through hole	L-393	15
60	Sensor Module Arduino compatible	Through hole	RPM IR based	15
61	Sensor Module Arduino compatible	Through hole	Rain Detector plate	15
62	Sensor Module Arduino compatible	Through hole	GY521	15
63	Sensor Module Arduino compatible	Through hole	Soil NPK	5
64	Sensor Module Arduino compatible	Through hole	MQ-2 Smoke LPG Butane Hydrogen Gas Sensor Detector Module	5
65	Sensor Module Arduino compatible	Through hole	MQ-7 CO Carbon Monoxide Coal Gas Sensor Module	5
66	Sensor Module Arduino compatible	Through hole	MQ-9 Carbon Monoxide, Methane and LPG Gas Sensor Module	5
67	Wi-Fi Microcontroller Module	Through hole	ESP8266	5
68	ESP WROOM 32 Wi-Fi Bluetooth Development Board	Through hole		15
69	Bharat Pi LoRa Module with ESP32	NA	LoRa RFM95W 868MHZ Long Range transceiver Module chip with ESP32 WROOM microcontroller	5

70	6x6x5mm Tactile Push Button Switch	Through hole	4 terminal	500
71	MOSFET	Through hole	IRF9540	200
72	MOSFET IRF540	Through hole		200
73	Laser Diode - Laser LED Light	Through hole	Maximum Operating Voltage: 3V-3.3V Operating Current: 40mA-50mA Colour: Red Laser Pattern: Point	300
74	Photo Diode	Through hole		20
75	Photo Transistor 2 pin	Through hole		20
76	1N5822 Schottky Rectifier Diode	Through hole		20
77	Colourful Heat Shrink Tubing (HST)	Insulation Assorted Kit: 90 mm length – 168pcs. Inner diameter: 1.5mm, 2.0mm, 3.0mm, 4.0mm	Colour: Red, Yellow, Green, Blue, Black, white, Transparent Shrinkage: 2:1 (maximum shrinkage to 1/2 of its supply diameter) Material: Polyolefin Set Include:	2 set
78	RS485 to Serial UART TTL MAX485 Converter Module Board	Through hole		10
79	Hot air Gun	brand Bosch, Hitachi or better	1800 W Heat Gun	1
80	Bluetooth Transceiver Module	Through hole	HC-05/06	20
81	Servo Motor with Accessories	Through hole	Tower Pro SG 90	20
82	4 Wheel Robot Chassis Assembly including BO motors and Tyres	NA		5
83	Electrical Tape	10 mtrs		5
84	IC (Operational Amplifier)	Through hole	LF411	100
85	IC (Operational Amplifier)	Through hole	LM324	100
86	Zener diode	Through hole	IMZ 3.3 V	50
87	Zener diode	Through hole	IMZ 5.1V	300
88	Zener diode	Through hole	IMZ 9 V	50
89	Zener diode	Through hole	IMZ 12V	50
90	Seven Segment Display	CA and CC (Through hole)	both 100 nos	200
91	LCD	Through hole	(16x2 with I2C Module)	50
92	Voltage Regulator IC	Through hole	IC 7805	100
93	Voltage Regulator IC	Through hole	IC 7812	100
94	Voltage Regulator IC	Through hole	IC 7905	50
95	Voltage Regulator IC	Through hole	IC 7912	50
96	Variable Resistor	Through hole	0-1 K Ω	50
97	Variable Resistor	Through hole	0-10 K Ω	50
98	Variable Resistor	Through hole	0-100 K Ω	50



99	Variable Resistor	Through hole	0-1 M Ω 	50
100	High Quality BreadBoard	830 pins	White Colour	100
101	Connecting wires 20 cm	Through hole	Male -Male pack of 40	20
102	Connecting wires 20 cm	Through hole	Male -Female pack of 40	10
103	Connecting wires 20 cm	Through hole	Female -Female pack of 40	5
104	Soldering Jack Audio Male Plug Headphone		Stereo 3.5mm 4 Pole Metal	20
105	Membrane Keypad for Arduino	4 x 4		20
106	RFID Reader/Writer with RFID Card and Tag	e.g. RC522 SPI S50 or better	Voltage: DC 3.3V (Do not use 5V supply) Operating Current :13-26mA Idle Current :10-13mA Operating Frequency: 13.56MHz Highly integrated analog circuitry to demodulate and decode responses Supports ISO/IEC 14443 A/MIFARE Typical operating distance in reading/Write mode up to 50 mm	10
107	Berg Strip Male Connector	in one strip 40 pin		20
108	Female Berg Strip	in one strip 40 pin		20
109	Banana Plug Connector	30A, 4mm		20
110	De-soldering Wick	Material: 100% Copper	Length: 1.5 m, Width: 1.85mm	10
111	Metallic Electric Vacuum Solder Sucker	Solder Iron Pen Welding Repair Tool	(De-soldering Pump/Soldering Iron/Removal)	2
112	Alligator Clips Electrical Test Clamps with Protective Insulation Cover	Size 30mm to 50mm	20 nos Black, 20 nos. Red	40
113	Piezo Buzzer		40mm with Cable	30
114	5V Arduino Buzzer			30
115	White A4 Sticker Sheets (Blank)	Plane Sticker without any cut	Pack of 50 nos.	1