



भारतीय समुद्रीय विश्वविद्यालय
Indian Maritime University
(केन्द्रीय विश्वविद्यालय, भारत सरकार / A Central University, Govt. of India)
कोलकता परिसर / Kolkata Campus



IMU-KC/Electronic Lab/22-23

Date: 19.05.2022

Sub: Quotation for Electronic Lab Items for IMU-KC

Sealed quotations are invited towards the following Electronic Lab Items for IMU-KC. Bidders are requested to submit their rates in the following format as per the respective technical specifications:

Sl. No.	Name of the Item	Technical Specification	Quantity (in nos.)	Rate per unit (in Rs.)	Applicable taxes per unit	HSN Code	Total rate per unit (including taxes)	Total Amount (Rs.)
A	B	C	D	E	F	G	H=E+F	I=D+H
1.	Single Strand Wire	Colour: Red, Black (22AWG) Hook up Wire	06					
2.	IC555		10					
3.	IC741		10					
4.	IC7432		10					
5.	IC7408		10					
6.	IC7400		10					
7.	IC74153		10					
8.	TYN612		10					
9.	Voltage Controlled Soldering Iron	Input -230V AC; Power Consumption - 60Watts; Type - Digital Control; Source Cable Length-1.35 mtr.; Iron Cable Length-1.35 mtr.; Temperature Range: 200 deg.C - 480 deg.C; Sleep Mode: Yes (auto mode 15mins if iron kept idle/untouched)	01					

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10.	Screw Driver Set	Screwdriver Kit of 8 Blades with Tester, Flat Tip: 3.25, 4.5, 5 mm, Philips No. - 0, 1, 2, Pocker and Extension Rod	01				
11.	Line Tester	10 x 10 x 10 cm	02				
12.	Stripping Plier	130 x 50 x 7 cm	01				
13.	Combination Cutting Plier	21.2 x 5.6 x 3.6 cm	01				
14.	Hard Disk	1 TB	01				
15.	Resistance	1K	20				
16.	Resistance	1.5K	20				
17.	Resistance	2.2K	20				
18.	Resistance	3.3K	20				
19.	Resistance	4.7K	20				
20.	Resistance	5.6K	20				
21.	Resistance	6.8K	20				
22.	Resistance	8.2K	20				
23.	Resistance	10K	20				
24.	Resistance	15K	20				
25.	Resistance	22K	20				
26.	JEFT IC	BFW11 Philips N-Channel Depletion JFET 30V 10mA TO-72 Package	10				
27.	Transistor	CL100	10				
28.	Heating Gun	10 Watt	01				
29.	Holding Stand (Iron)	8X5inch Base. 24inch long rod. Clamp opening from 0 to 10cm.	02				
30.	Electric Kettle	Features: Electric kettle with 360° base. Optional wall mount, ergonomic handle, one-touch opening, water level indicator, safety lid with automatic switch off and removable lime scale filter. Capacity: 500 ml to 1.2 litre Power supply: AC 220-240V ~ 50/60Hz, 1830-2178 W max. Operation temperature: Approx. 120°C Cable specifications: H05RR-F 3G*0.75-1.0 mm ² 250V~16A L = 0.85 m ON/OFF: ON/OFF button with blue light indication. Safety standard: GS/CE Electric shock protect	01				

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		grade: I Dimensions: H 210 mm x W 214 mm x D 130 mm Weight: Approx. 1.2 kg Material: PC, PP, sandblasted aluminium, PA66+GF					
31.	Connecting Wire (jumping wire) (single strand)	Bread Board connection jumping wire(8*8*3 cm)	02 set				
32.	Digital Multimeter	<ol style="list-style-type: none"> 1. The Multimeter shall be able to read true RMS value of AC current and voltage. 2. The multimeter shall have auto/ manual ranging 3. The multimeter shall be capable of measuring AC/DC voltage up to 1000 volts 4. The multimeter shall be capable of measuring AC/DC current up to 10Amperes 5. The multimeter shall be capable of measuring resistance up to 50 Mega Ohm 6. The multimeter shall be capable of measuring frequency up to 100KHz 7. The multimeter shall be capable of measuring capacitance up to 10 Microfarad 8. The multimeter shall be capable of measuring continuity with beeper feature 9. The multimeter shall have diode check feature 10. The multimeter shall have display hold feature 11. The multimeter shall have automatic power off feature 12. The multimeter shall have low battery indication 13. The multimeter supplied shall have minimum period of one-year warranty 14. The multimeter shall have safety compliance standard of EN61010-1CAT III 1000V 15. The multimeter shall 	03				

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		be supplied with measuring test leads 16. The multimeter shall be supplied with soft carrying case.						
33.	CRO probe	high freq. compensated probe 200 MHz / 6 MHz 10 M Ω / 1 M Ω 16 PF / 95 PF 10X / 1 X	04					
34.	Feedback Amplifier Trainer Kit (Four Types)	- DC power supply 12 V @ 500 mA - Four feedback amplifiers on panel - Voltage shunt, current shunt, voltage series & current series - Required numbers of patch cords and operating manual.	02					
35.	Characteristics Photo Diode	Front panel built with high class insulated Printed Circuit Board sheet with well printed circuits and symbols. •Fuse for Short Circuit protection •Instruction manual. •Connections are brought out through 4mm Coloured Sockets. •Patch Cords 4mm. •The trainer is housed in ABS Plastic cabinet. •Size of the trainer set 12"x8"	02					
36.	9 Volts rechargeable battery	•High Capacity, most suitable for High Drain Applications •Broad operating temperature range •Long Service life, up to 1000 charge /discharge cycle •Quick charging capability, excellent overcharges endurance •High reliability, superior high rate discharge	10					
37.	Variable resistor	•Resistance (Ω): 10k •Tolerance (%): 10 •Temperature Co-efficient: 100ppm •Operating Temperature Range (C): 55 to 125 •Mounting Type Through Hole	10					

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		<ul style="list-style-type: none"> •Length (mm): 9.5 •Width (mm): 9.5 •Height (mm): 5 •Weight (gm): 0.1 (approx.) 					
38.	Variable resistor	<ul style="list-style-type: none"> •Resistance (Ω): 100k •Tolerance (%): 10 •Temperature Co-efficient: 100ppm •Operating Temperature Range (C): 55 to 125 •Mounting Type Through Hole •Length (mm): 9.5 •Width (mm): 9.5 •Height (mm): 5 •Weight (gm): 0.1 (approx.) 	10				
39.	Extension cord (10m)	<ul style="list-style-type: none"> •Electrical Ratings: Voltage: 10 A, AC220-250V Frequency: 50-60Hz Rated power: 2500W (max) •Flame/Plastic Material Resistance to Wear High Electric Conductivity and Shock Proof •For use with Various Electric and Electronic Appliances, Devices and Equipment such as Computers, Audio/Video, Power Tools and Instrument in the Office and at Home. Not use with Heavy Electricals like microwave. •10 Meter Cable 	04				
40.	Soldering iron		01				
41.	Soldering Paste		01				
42.	Soldering Wire		01				
43.	SCR characteristic kit	<ul style="list-style-type: none"> V-I Characteristic of SCR 1. (0 to 24) volt supply 2. Voltmeter 3. Amp Meter 4. 1 K ohm resistance 5. 680-ohm resistance 6. SCR IC 	01				

Terms & Conditions:

1. Bidders should quote their rates as per the above format in their letterhead with official stamp and signature.
2. **EMD:** Quotations should be accompanied by an Earnest Money Deposit (EMD) amounting to Rs. 2,000.00 (Rupees Two Thousand Only), which shall be in form of Demand Draft from any Nationalized Bank / Scheduled Bank drawn in favour of "Indian Maritime University – Kolkata Campus", payable at Kolkata. No other form of deposit towards

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Earnest Money shall be accepted. However, exemption from EMD may be considered upon submission of relevant and valid exemption certificates from MSME / NSIC. No exemption from EMD is available for any other reason whatsoever.

3. The rates quoted should be inclusive of all but excluding taxes, which should be stated separately.
4. IMU-KC reserves the right to increase or decrease the required quantities as mentioned above.
5. The rates quoted should be valid for two months from the last date of submission of quotation. IMU-KC may place further orders during the said period depending on requirements.
6. Items should be delivered preferably within 2 (Two) weeks of placing order.
7. Submission of multiple bids by a single firm will lead to rejection of the bids and IMU-KC may black list such firms from future participation.
8. Last date of submission of quotation is 02.06.2022.
9. IMU-KC reserves the right to split the order between different bidders in case of tie.
10. The quotation is to be submitted in sealed envelope clearly subscribing "Quotation for Electronic Lab Equipments".
11. The envelope should be addressed to the Dy. Registrar, Indian Maritime University, P – 19, Taratala Road, Kolkata — 700 088 and deposited in the Tender Box kept at the Dy. Registrar's office (1st floor, Room No. 130) or can be sent by post.
12. The envelopes are to be sealed properly with gum and not by stapler pin.
13. Payment will be made through Bank Transfer after successful delivery of the items and their acceptance.
14. Evaluation would be done based on item-wise L1 rates quoted by the prospective firms.
15. Notwithstanding anything specified in this letter inviting quotation, IMU-KC at its sole discretion, unconditionally and without assigning any reason, reserves the right:
 - (a) To accept or reject lowest bid or any other bid or all the bids.
 - (b) To accept any bid in full or in part.
 - (c) To reject the bid offer not conforming to the tender conditions.
16. Micro and Small Enterprises should provide valid MSME certificate along with the quotation.
17. MSME quoting within the price band of L1+15% shall be allowed to supply the requirement up to 25% of the tender quantity subject to the condition that such Enterprises bring down their price to L1 price where L1 price is from other than a Micro and Small Enterprise. If L1 offer is from a Micro / Small Enterprise, this provision will not be applicable. In case more than one Micro and Small Enterprise is there within this span, the supply shall be shared proportionately to the tender quantity. For availing the advantage of L1+15%, bidders have to provide the MSME certificate along with the quotation.



O.I.C. - Purchase