



COMSATS Institute of Information Technology
Lahore Campus, Defence Road, Off Raiwind Road, Lahore

Tender No. CIIT-TN-13-17-924
Case # 2132

Title of Tender: **Lab Items for Electrical Engineering Department for Semester Fall 2017**

TERMS AND CONDITIONS

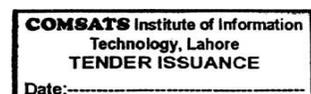
[All pages (BoQs & Terms & Conditions) are mandatory to be signed / stamped, failing which the bid may be rejected.]

1. *Any addition, deletion or modification of any clause of the procurement terms & conditions /BoQs of CIIT by any vendor will not be acceptable and may lead to rejection of the bid.*
2. *Only registered Suppliers, who are on Active Taxpayers List (ATL) of FBR, are eligible to participate in tender.*
3. The contract will be executed and handed over in satisfactory conditions up to the entire satisfaction of COMSATS Institute of Information Technology, Lahore Campus.
4. Documents along with Pay Order / Demand Draft amounting to **Rs. 500/-** as a tender documents fee (Non-Refundable) shall be submitted in favor of COMSATS Institute of Information Technology, Lahore to the address given below. No bid will be accepted without tender documents' fee.
5. Part / Advance payments is not allowed.
6. The exact completion/delivery time from the date of the purchase / work order will be **15 days**. The handing over / completion time for this contract is of critical importance
7. The bid proposal must be inclusive of freight and all other taxes and to be delivered at COMSATS Institute of Information Technology, Lahore Campus's premises.
8. After opening of bids, COMSATS Institute of Information Technology, Lahore Campus will examine the bids for completeness as per tender document.
9. Purchase order (s) will be awarded to the lowest or technically recommended bidder (s) on the basis of item wise / subtotal wise / grand total wise according to the nature of BoQs.
10. The bid should be submitted in a sealed envelope up to **September 06, 2017** on or before **1400hrs** and will be opened on the same date **at 1430hrs** in the presence of available bidders.
11. The envelope should be marked as under;

Secretary, Purchase Committee
COMSATS Institute of Information Technology, Lahore Campus
Defence Road, Off Raiwind Road, Lahore.
Tel: 042-111-001-007, Ext: 875

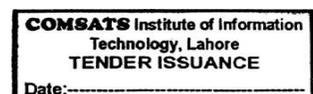
The envelope shall also bear the word "**CONFIDENTIAL**" and the Title of procurement of "**Lab Items for Electrical Engineering Department for Semester Fall 2017**".

Signature & Stamp of Bidder



12. The bid form (BoQs) must be duly filled in, stamped and signed by the authorized representative of the bidder.
13. **If the vendor fails to deliver the goods / services to CIIT-Lahore in time then the penalty will be charged as under:-**
 - a. 1% per day of the invoice price for 5 working days.
 - b. 2% per day of the invoice price for further 5 working days.
 - c. If the vendor fails to deliver the goods / services during the extended period then the purchase / work order may be cancelled, earnest money and payment may be forfeited.
14. If the delivered goods / services are not according to the required quality standards / specifications, the same shall be liable to be rejected after inspection. The vendor would be required to supply as per requirements mentioned in our BoQs, otherwise the purchase / work order will be cancelled after due date with confiscation of earnest money.
15. Deduction of Income Tax and any other tax will be deducted at source according to Government prevailing rules.
16. Payment will be made on submission of Invoice in the name of “COMSATS Institute of Information Technology, Lahore Campus” with a copy of delivery challan (s) after the complete order has been supplied, inspected and accepted which includes delivery / installation, and COMSATS acceptance / inspection thereof.
17. All prices should be quoted on F.O.R (Pak Rupees).
18. All prices should be valid for at least **60 days**. Withdrawal or any modification of the original offer within the validity period shall entitle CIIT to forfeit the earnest money in favor of the CIIT and / or put a ban on such vendor participation in CIIT tenders / works.
19. It is the sole responsibility of the agent / supplier / manufacturer to comply with the applicable laws, be national or international.
20. In case of any dispute or grievance, the matter shall be addressed as per PPRA rules.
21. The CIIT reserves the right to modify the quantities of goods / services at any time before the award of purchase / work order.
22. **The bidder is required to furnish in form of Bank deposit / CDR / Pay order equivalent to 2% of the total Bid price as Earnest Money crossed in favor of “COMSATS Institute of Information Technology, Lahore Campus”. Any bid not accompanied by Earnest Money shall be rejected without any right of appeal.**
23. COMSATS Institute of Information Technology, Lahore Campus reserves the rights to accept or reject the bid if;
 - i. Received without earnest money
 - ii. Received later than the date and time fixed for tender submission
 - iii. The tender is unsigned/ unstamped
 - iv. The offer is ambiguous
 - v. The offer is conditional
 - vi. Offer is made by the unauthorized agent/ supplier of the original equipment manufacturer.
 - vii. The offer is from a firm, which is black listed by any Govt. Office.
 - viii. The offer is received by telephone/telex/fax/telegram.
 - ix. Any unsigned / ambiguous erasing, cutting / overwriting etc. is made.

Signature & Stamp of Bidder



24. The bidder should furnish a certificate as worded below in token of acceptance of all the terms and conditions of the tender. Otherwise the tender will not be considered under any circumstances.

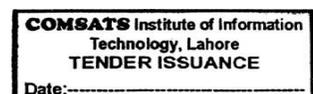
25. The undersigned affirm that the terms and conditions as contained in this document have been read and accepted and that in the event of selection of my/our rate the agreement in the prescribed form will be entered into:

- **Company / Vendor Name:**.....
- **Postal Address:**.....
- **Tel. / Mobile:**.....**Email:**.....
- **NTN# :**.....**GST#:**.....
- **Signature:**
- Please also attach the Certificate supporting being Active Taxpayer as per requirement of FBR.

BoQs of Lab Items for Electrical Engineering Department for Semester Fall, CIIT-Lahore

No change in the BoQs (Specs and Qty.) of CIIT, as detailed below, is allowed. Any addition information may be mentioned in the blank columns (i.e. model / brand and Price). Any modification in CIIT’s BoQ may lead to rejection of bid (fully or partially).					Rate to be quoted Inclusive of all (applicable) Taxes		
Sr. #	Item Name	Specifications	Qty		Quoted Model / Brand	Unit Price (Rs)	Total Price (Rs)
Electronics Lab (Dedicated for BEE)							
1	Resistor	¼ Watt - 100Ω As per sample available at CIIT Lahore	2500	Nos.			
2	Resistor	¼ Watt - 1KΩ As per sample available at CIIT Lahore	3000	Nos.			
3	Resistor	¼ Watt - 1.2KΩ As per sample available at CIIT Lahore	2000	Nos.			
4	Resistor	¼ Watt - 1.5KΩ As per sample available at CIIT Lahore	1500	Nos.			
5	Resistor	¼ Watt - 1.8KΩ As per sample available at CIIT Lahore	2500	Nos.			

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6	Resistor	¼ Watt - 2.2KΩ As per sample available at CIIT Lahore	2500	Nos.			
7	Resistor	¼ Watt - 2.4KΩ As per sample available at CIIT Lahore	3000	Nos.			
8	Resistor	¼ Watt - 2.7KΩ As per sample available at CIIT Lahore	2500	Nos.			
9	Resistor	¼ Watt - 3.3KΩ As per sample available at CIIT Lahore	3000	Nos.			
10	Resistor	¼ Watt - 4.7KΩ As per sample available at CIIT Lahore	3000	Nos.			
11	Resistor	¼ Watt - 6.8KΩ As per sample available at CIIT Lahore	1000	Nos.			
12	Resistor	¼ Watt - 10KΩ As per sample available at CIIT Lahore	3000	Nos.			
13	Resistor	¼ Watt - 33KΩ As per sample available at CIIT Lahore	2000	Nos.			
14	Resistor	¼ Watt - 39KΩ As per sample available at CIIT Lahore	3000	Nos.			
15	Resistor	¼ Watt - 51KΩ As per sample available at CIIT Lahore	3000	Nos.			
16	Resistor	¼ Watt - 100KΩ As per sample available at CIIT Lahore	2500	Nos.			
17	Resistor	¼ Watt - 220KΩ As per sample available at CIIT Lahore	2000	Nos.			
18	Resistor	¼ Watt - 270KΩ As per sample available at CIIT Lahore	2000	Nos.			

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19	Resistor	¼ Watt - 390KΩ As per sample available at CIIT Lahore	2000	Nos.			
20	Resistor	¼ Watt - 430KΩ As per sample available at CIIT Lahore	1000	Nos.			
21	Resistor	¼ Watt - 1MΩ As per sample available at CIIT Lahore	1000	Nos.			
22	Resistor	¼ Watt - 2.2MΩ As per sample available at CIIT Lahore	1000	Nos.			
23	Resistor	Variable 1MΩ As per sample available at CIIT Lahore	500	Nos.			
24	Resistor	Variable 5KΩ As per sample available at CIIT Lahore	500	Nos.			
25	Capacitor	Disk Type 1nF or equivalent As per sample available at CIIT Lahore	200	Nos.			
26	Capacitor	Disk Type 10nF or equivalent As per sample available at CIIT Lahore	200	Nos.			
27	Capacitor	Electrolytic 10µF or equivalent As per sample available at CIIT Lahore	300	Nos.			
28	Capacitor	Electrolytic 22µF or equivalent As per sample available at CIIT Lahore	200	Nos.			
29	Capacitor	Electrolytic 40µF or equivalent As per sample available at CIIT Lahore	200	Nos.			
30	Capacitor	Electrolytic 100µF or equivalent As per sample available at CIIT	200	Nos.			

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31	Diodes	Zener 10V or equivalent As per sample available at CIIT Lahore	400	Nos.			
32	Diode	IN4007 or equivalent As per sample available at CIIT Lahore	400	Nos.			
33	Transistor	JFET J309 or equivalent As per sample available at CIIT Lahore	200	Nos.			
34	Transistor	(NPN) Tip30 or equivalent As per sample available at CIIT Lahore	100	Nos.			
35	Transistor	(NPN) TiP122 or equivalent As per sample available at CIIT Lahore	100	Nos.			
36	Transistor	(NPN) 2N3904 or equivalent As per sample available at CIIT Lahore	600	Nos.			
37	Op-Amp	LM741 or equivalent As per sample available at CIIT Lahore	200	Nos.			
38	Timer	NE555 or equivalent As per sample available at CIIT Lahore	50	Nos.			
39	Op-Amp	TL071CP or equivalent As per sample available at CIIT Lahore	20	Nos.			
40	Cell	1.5V As per sample available at CIIT Lahore	96	Nos.			

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41	Battery	9V As per sample available at CIIT Lahore	60	Nos.				
42	Transformer Rewinding	As per sample available at CIIT Lahore	5	Nos.				
43	Meter Probe	As per sample available at CIIT Lahore	20	Nos.				
44	Oscilloscope Probe	As per sample available at CIIT Lahore	10	Nos.				
45	Jumper wire	As per sample available at CIIT Lahore	7	Nos.				
46	Wire Cutter	As per sample available at CIIT Lahore	2	Nos.				
47	Soldering Iron	As per sample available at CIIT Lahore	1	No.				
48	Soldering Wire	As per sample available at CIIT Lahore	1	No.				
Sub Total Amount (Rs)								
Electric Machines Lab (Dedicated for BTE)								
49	Fuse	2A As per sample available at CIIT Lahore	500	Nos.				
50	Battery	9V As per sample available at CIIT Lahore	10	Nos.				
51	Cells	1.5V As per sample available at CIIT Lahore	50	Nos.				
52	Screw Driver Kit	As per sample available at CIIT Lahore	1	No.				
53	Brush 2"	As per sample available at CIIT Lahore	2	Nos.				
54	Brush 4"	As per sample available at CIIT Lahore	2	Nos.				
Sub Total Amount (Rs)								

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Electrical Measurements and Instrumentations Lab (Dedicated for BEE)							
55	Resistor	1 Watt - 100Ω As per sample available at CIIT Lahore	500	Nos.			
56	Resistor	1 Watt - 120Ω As per sample available at CIIT Lahore	500	Nos.			
57	Resistor	¼ Watt - 470Ω As per sample available at CIIT Lahore	500	Nos.			
58	Resistor	¼ Watt - 1KΩ As per sample available at CIIT Lahore	500	Nos.			
59	Resistor	¼ Watt - 2.2KΩ As per sample available at CIIT Lahore	500	Nos.			
60	Resistor	¼ Watt - 3.3KΩ As per sample available at CIIT Lahore	500	Nos.			
61	Resistor	¼ Watt - 4.7KΩ As per sample available at CIIT Lahore	500	Nos.			
62	Resistor	¼ Watt - 10KΩ As per sample available at CIIT Lahore	500	Nos.			
63	Resistor	¼ Watt - 12KΩ As per sample available at CIIT Lahore	500	Nos.			
64	Resistor	¼ Watt - 15KΩ As per sample available at CIIT Lahore	500	Nos.			
65	Resistor	¼ Watt - 20KΩ As per sample available at CIIT Lahore	500	Nos.			
66	Resistor	¼ Watt - 33KΩ As per sample available at CIIT Lahore	500	Nos.			
67	Resistor	¼ Watt - 1MΩ As per sample available at CIIT	500	Nos.			

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68	Resistor	Variable - 500Ω As per sample available at CIIT Lahore	50	Nos.			
69	Resistor	Variable - 2KΩ As per sample available at CIIT Lahore	50	Nos.			
70	Resistor	Variable - 3KΩ As per sample available at CIIT Lahore	50	Nos.			
71	Resistor	Variable - 5KΩ As per sample available at CIIT Lahore	50	Nos.			
72	Resistor	Variable - 10KΩ As per sample available at CIIT Lahore	50	Nos.			
73	Resistor	Variable - 100KΩ As per sample available at CIIT Lahore	50	Nos.			
74	Capacitor	Disk Type - 1nF As per sample available at CIIT Lahore	100	Nos.			
75	Capacitor	Disk Type - 10nF As per sample available at CIIT Lahore	100	Nos.			
76	Capacitor	Disk Type - 100nF As per sample available at CIIT Lahore	100	Nos.			
77	Capacitor	Disk Type - 220nF As per sample available at CIIT Lahore	100	Nos.			
78	Capacitor	Disk Type - 0.47uF As per sample available at CIIT Lahore	100	Nos.			
79	Capacitor	Electrolytic - 2.2uF For equivalent As per sample available at CIIT Lahore	100	Nos.			

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80	Capacitor	Electrolytic - 10uFor equivalent As per sample available at CIIT Lahore	100	Nos.			
81	Capacitor	Electrolytic - 15uFor equivalent As per sample available at CIIT Lahore	100	Nos.			
82	Capacitor	Electrolytic - 80uFor equivalent As per sample available at CIIT Lahore	50	Nos.			
83	Capacitor	Electrolytic - 220uF - 63Vor equivalent As per sample available at CIIT Lahore	50	Nos.			
84	Capacitor	Variable - 10pF As per sample available at CIIT Lahore	50	Nos.			
85	Capacitor	Variable - 50pF As per sample available at CIIT Lahore	50	Nos.			
86	Capacitor	Variable - 100pF As per sample available at CIIT Lahore	50	Nos.			
87	Inductor	1mH As per sample available at CIIT Lahore	50	Nos.			
88	Inductor	2.2mH As per sample available at CIIT Lahore	50	Nos.			
89	Inductor	8mH As per sample available at CIIT Lahore	50	Nos.			
90	Inductor	10mH As per sample available at CIIT Lahore	50	Nos.			

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91	Inductor	25mH As per sample available at CIIT Lahore	50	Nos.			
92	Inductor	50mH As per sample available at CIIT Lahore	50	Nos.			
93	Transistor	NPN 2N3904or equivalent As per sample available at CIIT Lahore	50	Nos.			
94	Transistor	NPN 2N3906or equivalent As per sample available at CIIT Lahore	50	Nos.			
95	Transistor	NPN 2N2219or equivalent As per sample available at CIIT Lahore	50	Nos.			
96	ADC	0804or equivalent As per sample available at CIIT Lahore	25	Nos.			
97	Op Amp	LM741or equivalent	50	Nos.			
98	Glass Fuse	1 Amp, 250 V As per sample available at CIIT Lahore	50	Nos.			
99	Glass Fuse	2 Amp, 250 V As per sample available at CIIT Lahore	50	Nos.			
100	Glass Fuse	4 Amp, 250 V As per sample available at CIIT Lahore	50	Nos.			
101	Temperature Sensor	LM 35or equivalent	30	Nos.			

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102	Light Sensor	LDR or equivalent As per sample available at CIIT Lahore	30	Nos.			
103	Power Cable	As per sample available at CIIT Lahore	5	Nos.			
104	Wire Tie 6"	As per sample available at CIIT Lahore	2	Packets			
105	Wire Tie 12"	As per sample available at CIIT Lahore	1	Packet			
106	VGA Cable	As per sample available at CIIT Lahore	3	Nos.			
107	Extension Lead, 5 Meter	As per sample available at CIIT Lahore	1	No.			
108	Spray Paint (Black)	As per sample available at CIIT Lahore	5	Nos.			
109	WD 40 or equivalent	As per sample available at CIIT Lahore	1	No.			
Sub Total Amount (Rs)							
Digital Logic Design Lab (Dedicated for BCE)							
110	IC 7476	JK Flip Flop or equivalent As per sample available at CIIT Lahore	30	Nos.			
111	IC 7432	OR Gate or equivalent As per sample available at CIIT Lahore	50	Nos.			
112	IC 7408	AND Gate or equivalent As per sample available at CIIT Lahore	50	Nos.			
113	IC 7400	NAND Gate or equivalent As per sample available at CIIT Lahore	50	Nos.			

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114	IC 7402	NOR Gate or equivalent As per sample available at CIIT Lahore	50	Nos.			
115	IC 7404	NOT Gate or equivalent As per sample available at CIIT Lahore	70	Nos.			
116	IC 7486	XOR Gate or equivalent As per sample available at CIIT Lahore	50	Nos.			
117	IC 7485	4-Bit Comparator or equivalent As per sample available at CIIT Lahore	20	Nos.			
118	IC 7447	BCD to 7seg Decoder or equivalent As per sample available at CIIT Lahore	30	Nos.			
119	IC 7475	4Bit Bistable Latch or equivalent As per sample available at CIIT Lahore	20	Nos.			
120	IC 7495	4Bit Parallel Access Shift Register or equivalent As per sample available at CIIT Lahore	10	Nos.			
121	IC 74139	dual 2to4line decoder As per sample available at CIIT Lahore	20	Nos.			
122	IC 74147	10 to 4Line priority Encoder or equivalent As per sample available at CIIT Lahore	20	Nos.			
123	IC 74148	8-LINE TO 3-LINE	20	Nos.			

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		PRIORITY ENCODER or equivalent As per sample available at CIIT Lahore					
124	7 Segment Display or equivalent	Common Anode or equivalent As per sample available at CIIT Lahore	50	Nos.			
125	Jumper Wire	N/A As per sample available at CIIT Lahore	3	Kg			
126	Double tape	N/A As per sample available at CIIT Lahore	02	Nos.			
127	Fuse (1.25 A)	1.25 A As per sample available at CIIT Lahore	2	Packet			
128	Magnifier	As per sample available at CIIT Lahore	1	No.			
129	WD 40 or equivalent	As per sample available at CIIT Lahore	2	Nos.			
130	Paint Brush 2"	2"	2	Nos.			
131	Paint Brush 4"	4"	2	Nos.			
132	CMOS CELL	As per sample available at CIIT Lahore	24	Nos.			
133	Cell AAA or equivalent	AAA or equivalent	12	Nos.			
134	Cell AA	AA or equivalent	4	Nos.			
Sub Total Amount (Rs)							
Circuit Analysis Lab (Dedicated for BCE)							
135	Resistor	¼W - 1KΩ As per sample available at CIIT Lahore	5000	Nos.			

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136	Resistor	$\frac{1}{4}W - 2.2\Omega$ As per sample available at CIIT Lahore	5000	Nos.			
137	Resistor	$\frac{1}{4}W - 3.3K\Omega$ As per sample available at CIIT Lahore	5000	Nos.			
138	Resistor	$\frac{1}{4}W - 4.7K\Omega$ As per sample available at CIIT Lahore	5000	Nos.			
139	Resistor	$\frac{1}{4}W - 5.6K\Omega$ As per sample available at CIIT Lahore	5000	Nos.			
140	Resistor	$\frac{1}{4}W - 6.8K\Omega$ As per sample available at CIIT Lahore	5000	Nos.			
141	Resistor	$\frac{1}{4}W - 8.2K\Omega$ As per sample available at CIIT Lahore	5000	Nos.			
142	Resistor	$\frac{1}{4}W - 10K\Omega$ As per sample available at CIIT Lahore	5000	Nos.			
143	Resistor	$\frac{1}{4}W - 12K\Omega$ As per sample available at CIIT Lahore	3000	Nos.			
144	Resistor	$\frac{1}{4}W - 15K\Omega$ As per sample available at CIIT Lahore	3000	Nos.			
145	Resistor	$\frac{1}{4}W - 22K\Omega$ As per sample available at CIIT Lahore	1000	Nos.			
146	Resistor	$\frac{1}{4}W - 100K\Omega$ As per sample available at CIIT Lahore	1000	Nos.			
147	Resistor	$\frac{1}{4}W - 1M\Omega$ As per sample available at CIIT Lahore	1000	Nos.			

148	Capacitor	Disk - 1nF As per sample available at CIIT Lahore	400	Nos.			
149	Capacitor	Disk - 10nF As per sample available at CIIT Lahore	400	Nos.			
150	Capacitor	Electrolytic - 1UF or equivalent As per sample available at CIIT Lahore	200	Nos.			
151	Capacitor	Electrolytic - 2.2UF or equivalent As per sample available at CIIT Lahore	400	Nos.			
152	Diode	IN4007 As per sample available at CIIT Lahore	800	Nos.			
153	Inductor	1mH As per sample available at CIIT Lahore	100	Nos.			
154	Inductor	10mH As per sample available at CIIT Lahore	100	Nos.			
155	Inductor	20mH As per sample available at CIIT Lahore	100	Nos.			
156	Inductor	40mH As per sample available at CIIT Lahore	100	Nos.			
157	Jumping wire	As per sample available at CIIT Lahore	6	Kg			
158	Battery	9V	100	Nos.			
159	Cell	1.5V	100	Nos.			
160	voltage regulator	7805 or equivalent As per sample available at CIIT	50	Nos.			

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		Lahore					
161	voltage regulator	7905 or equivalent As per sample available at CIIT Lahore	50	Nos.			
162	voltage regulator	78012 or equivalent As per sample available at CIIT Lahore	50	Nos.			
163	voltage regulator	79012 or equivalent As per sample available at CIIT Lahore	50	Nos.			
164	voltage regulator	LM337 or equivalent As per sample available at CIIT Lahore	50	Nos.			
165	voltage regulator	LM317 or equivalent As per sample available at CIIT Lahore	50	Nos.			
166	Op-amp	TL071CP or equivalent As per sample available at CIIT Lahore	20	Nos.			
167	Multi-meter probe	UNI-T UT55 Multimeter Probes or equivalent	40	Nos.			
168	Round pins	Hader As per sample available at CIIT Lahore	24	Nos.			
Sub Total Amount (Rs)							
Data Communication and Internetworking Lab (Dedicated for BTE)							
169	USB Extension Cable	As per sample available at CIIT Lahore	60	Nos.			
170	RJ 45 Connector	As per sample available at CIIT Lahore	100	Nos.			
171	Aux Cable	As per sample available at CIIT Lahore	30	Nos.			

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Sub Total Amount (Rs)							
Antenna Lab (Dedicated for BTE)							
172	RJ 45 Connectors	100 Nos. in one Pack	1	Pack			
173	Hammer	As per sample available at CIIT Lahore	1	No.			
174	Cleaning Brush	3"	1	No.			
175	Flexible Pipe	50 meter – 1.5" Dia	1	No.			
176	Thinner	As per sample available at CIIT Lahore	2	Nos.			
177	WD 40 or equivalent	Nil	2	Nos.			
178	Multimeter Battery	As per sample available at CIIT Lahore	5	Nos.			
179	Furniture Polish	(Kiwi Revive-All) or equivalent 250ml	4	Nos.			
180	Wermer Kit	For drill machine (in different Sizes)	1	Pack			
181	Equipment Box	As per sample available at CIIT Lahore in Large Size	2	Nos.			
182	Networking Cable Tester	As per sample available at CIIT Lahore	1	No.			
183	Networking Cable Cutter	As per sample available at CIIT Lahore	1	No.			
184	DvD Pack	10 Nos. in 1 Pack	1	Pack			
185	Plastic Lid Covers	plastic sheet cover for lab equipment (LabVolt Tray cover) or equivalent	5	Nos.			
Sub Total Amount (Rs)							
Power Electronics/Industrial Electronics Lab (Dedicated for BEE)							

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186	Jumper Wire	FOR EXPERIMENT As per sample available at CIIT Lahore	2	Nos.			
187	Glass Fuse 50mA, 250v, Fast type, 20mm or equivalent	FOR POWER SUPLY As per sample available at CIIT Lahore	100	Nos.			
188	Glass Fuse 500mA, 250v, Fast type, Large Size or equivalent	FOR POWER SUPLY As per sample available at CIIT Lahore	100	Nos.			
189	Glass Fuse 1A, 250v, Fast type, Large Size or equivalent	FOR POWER SUPLY As per sample available at CIIT Lahore	100	Nos.			
190	Slotted Cap Panel Mount Fuse Holder or equivalent	FOR POWER SUPLY As per sample available at CIIT Lahore	50	Nos.			
191	SCR MCR 100- 8 or equivalent	For MCM – 3 or equivalent As per sample available at CIIT Lahore	15	Nos.			
192	Cable Tie 12"	For Lab Use As per sample available at CIIT Lahore	3	Nos.			
193	Cable Tie 6"	For Lab Use As per sample available at CIIT Lahore	3	Nos.			
194	Laminated Wire 36/38 SWG	FOR EXPERIMENT As per sample available at CIIT Lahore	60	Nos.			
195	liquid Thinner 500ml	For LAB As per sample available at CIIT Lahore	1	Nos.			
196	Opto-Coupler PC817 or equivalent	FOR EXPERIMENT As per sample available at CIIT Lahore	50	Nos.			

197	LM3914 or equivalent	FOR EXPERIMENT As per sample available at CIIT Lahore	20	Nos.			
198	Breadboard	FOR LAB USE As per sample available at CIIT Lahore	30	Nos.			
199	Vero Board	FOR LAB USE As per sample available at CIIT Lahore	100	Nos.			
200	60/40 0.8mm 100G Tin Lead Rosin Core Solder Flux Soldering Wire or equivalent	FOR LAB USE As per sample available at CIIT Lahore	2	Nos.			
201	De-Soldering Pump	As Per Sample Available at CIIT Lahore	1	Nos.			
202	Banana Connector (Male) or equivalent	FOR POWER SUPPLY As per sample available at CIIT Lahore	36	Nos.			
203	Audio Cable (1 meter Length)	FOR EXPERIMENT As per sample available at CIIT Lahore	36	Nos.			
204	Battery 9v	For DMM As per sample available at CIIT Lahore	60	Nos.			
205	Flexible Wire	FOR LAB USE – Dia Equivalent to 7-29 wire	60	Nos.			
206	IC's Flate Base 6 Pin	FOR DIFFERENT IC'S As per sample available at CIIT Lahore	25	Nos.			
207	IC's Flate Base 8 Pin	As per sample available at CIIT Lahore	25	Nos.			
208	IC's Flate Base 16 Pin	As per sample available at CIIT Lahore	25	Nos.			

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209	LM7805 or equivalent	FOR EXPERIMENT As per sample available at CIIT Lahore	25	Nos.			
210	Power Cord	As per sample available at CIIT Lahore	20	Nos.			
211	Crocodile Connector or equivalent	FOR POWER SUPPLY As per sample available at CIIT Lahore	50	Nos.			
212	Mechanical Relay 12VDC or equivalent	FOR EXPERIMENT As per sample available at CIIT Lahore	20	Nos.			
213	Resister 470K Ohm or equivalent	FOR EXPERIMENT As per sample available at CIIT Lahore	100	Nos.			
214	Resister 4K Ohm	FOR EXPERIMENT As per sample available at CIIT Lahore	100	Nos.			
215	Resister 10K Ohm	FOR EXPERIMENT As per sample available at CIIT Lahore	100	Nos.			
216	Resister 1K Ohm	FOR EXPERIMENT	100	Nos.			
217	Zener Diode 6.2V or equivalent	FOR EXPERIMENT As per sample available at CIIT Lahore	50	Nos.			
218	BC187 Transistor or equivalent	FOR EXPERIMENT As per sample available at CIIT Lahore	25	Nos.			
219	BC547 Transistor or equivalent	FOR EXPERIMENT As per sample available at CIIT Lahore	25	Nos.			
220	Resister 5.6 Ohm	FOR EXPERIMENT As per sample available at CIIT Lahore	100	Nos.			
221	Resister 100K Ohm	FOR EXPERIMENT As per sample	100	Nos.			

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		available at CIIT Lahore					
222	Diode 1N4007 or equivalent	FOR EXPERIMENT As per sample available at CIIT Lahore	100	Nos.			
223	LM394 or equivalent	FOR LAB USE As per sample available at CIIT Lahore	20	Nos.			
224	LM194 or equivalent	FOR LAB USE As per sample available at CIIT Lahore	20	Nos.			
225	Amery Paper zero No.	FOR GENERAL PURPOSE As per sample available at CIIT Lahore	10	Nos.			
226	Permanent Marker with round Small Tip	FOR PCB As per sample available at CIIT Lahore	5	Nos.			
227	Ferric Chloride FeCl ₃ PCB Etching Agent 1000 gms Packor equivalent	FOR PCB As per sample available at CIIT Lahore	1	Nos.			
228	Glass Jar with Air Tight 1000ml	FOR LAB USE As per sample available at CIIT Lahore	1	Nos.			
229	Portable Mini Drill Machine With Bit Set for PCB	FOR PCB As per sample available at CIIT Lahore	50	Nos.			
230	Electrical Pvc Tape	FOR GENERAL PURPOSE As per sample available at CIIT Lahore	5	Nos.			
231	Paper Tape	FOR GENERAL PURPOSE As per sample available at CIIT Lahore	5	Nos.			
232	Resistor Fix 1Ω, 10w	Consumable items As per sample available at CIIT Lahore	100	Nos.			

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233	Resistor Fix 2Ω, 10w	Consumable items As per sample available at CIIT Lahore	100	Nos.			
234	Resistor Fix 5Ω, 10w	Consumable items As per sample available at CIIT Lahore	100	Nos.			
235	Resistor Fix 2.2Ω, 5w	Consumable items As per sample available at CIIT Lahore	100	Nos.			
236	Resistor Fix 10Ω, 5w	Consumable items As per sample available at CIIT Lahore	100	Nos.			
237	Resistor Fix 10Ω, 10w	Consumable items As per sample available at CIIT Lahore	100	Nos.			
238	Resistor Fix 5Ω, 5w	Consumable items As per sample available at CIIT Lahore	100	Nos.			
239	Resistor Fix 220Ω, 5w	Consumable items As per sample available at CIIT Lahore	100	Nos.			
240	Double Layer PCB Sheet	2' x 2' As per sample available at CIIT Lahore	1	Nos.			
241	Resistor 100Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			
242	Resistor 220Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			
243	Resistor 330Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			
244	Resistor 47Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			
245	Resistor 1Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			

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246	Resistor 82Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			
247	Resistor 680Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			
248	Resistor 22Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			
249	Resistor 2.2Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			
250	Resistor 10Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			
251	Resistor 560Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			
252	Resistor 470Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			
253	Resistor 820Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			
254	Resistor 4.7Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			
255	Resistor 2.2kΩ	Consumable items As per sample available at CIIT Lahore	200	Nos.			
256	Resistor 56kΩ	Consumable items As per sample available at CIIT Lahore	200	Nos.			
257	Resistor 4.7kΩ	Consumable items As per sample available at CIIT Lahore	200	Nos.			
258	Resistor 33kΩ	Consumable items As per sample available at CIIT Lahore	200	Nos.			

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259	Resistor 10k Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			
260	Resistor 150k Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			
261	Resistor 6.8k Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			
262	Resistor 68k Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			
263	Resistor 15k Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			
264	Resistor 3.3k Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			
265	Resistor 330k Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			
266	Resistor 220k Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			
267	Resistor 4k Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			
268	Resistor 8.5k Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			
269	Resistor 470k Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			
270	Resistor 5.6k Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			
271	Resistor 12k Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			

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272	Resistor 22k Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			
273	Resistor 1k Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			
274	Resistor 100k Ω	Consumable items As per sample available at CIIT Lahore	200	Nos.			
275	3mmx12mm+6 mm male to female plastic spacer	FOR POTENTIOMETER As per sample available at CIIT Lahore	100	Nos.			
Sub Total Amount (Rs)							
Communications Lab (Dedicated for BTE)							
276	Resistor	$\frac{1}{2}$ W- 1 Ω As per sample available at CIIT Lahore	500	Nos.			
277	Resistor	$\frac{1}{4}$ W - 2.2 Ω As per sample available at CIIT Lahore	500	Nos.			
278	Resistor	$\frac{1}{2}$ W- 10 Ω As per sample available at CIIT Lahore	500	Nos.			
279	Resistor	$\frac{1}{4}$ W- 10 Ω As per sample available at CIIT Lahore	500	Nos.			
280	Resistor	$\frac{1}{2}$ W- 47 Ω As per sample available at CIIT Lahore	500	Nos.			
281	Resistor	$\frac{1}{2}$ W- 100 Ω As per sample available at CIIT Lahore	500	Nos.			
282	Resistor	$\frac{1}{2}$ W- 180 Ω As per sample available at CIIT Lahore	500	Nos.			
283	Resistor	$\frac{1}{2}$ W- 220 Ω As per sample available at CIIT Lahore	500	Nos.			

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284	Resistor	$\frac{1}{4}$ W- 220 Ω As per sample available at CIIT Lahore	500	Nos.			
285	Resistor	$\frac{1}{4}$ W- 330 Ω As per sample available at CIIT Lahore	500	Nos.			
286	Resistor	$\frac{1}{2}$ W- 330 Ω As per sample available at CIIT Lahore	500	Nos.			
287	Resistor	$\frac{1}{4}$ W- 470 Ω As per sample available at CIIT Lahore	500	Nos.			
288	Resistor	$\frac{1}{4}$ W- 560 Ω As per sample available at CIIT Lahore	500	Nos.			
289	Resistor	$\frac{1}{4}$ W- 680 Ω As per sample available at CIIT Lahore	500	Nos.			
290	Resistor	$\frac{1}{4}$ W- 820 Ω As per sample available at CIIT Lahore	500	Nos.			
291	Resistor	$\frac{1}{2}$ W- 1K Ω . As per sample available at CIIT Lahore	500	Nos.			
292	Resistor	$\frac{1}{4}$ W- 1K Ω As per sample available at CIIT Lahore	500	Nos.			
293	Resistor	$\frac{1}{4}$ W- 1.2K Ω As per sample available at CIIT Lahore	500	Nos.			
294	Resistor	$\frac{1}{2}$ W- 1.5K Ω As per sample available at CIIT Lahore	500	Nos.			
295	Resistor	$\frac{1}{4}$ W- 2.2K Ω As per sample available at CIIT Lahore	500	Nos.			
296	Resistor	$\frac{1}{4}$ W- 3.3K Ω As per sample available at CIIT Lahore	500	Nos.			

297	Resistor	$\frac{1}{4}$ W- 4.7K Ω As per sample available at CIIT Lahore	500	Nos.			
298	Resistor	$\frac{1}{2}$ W- 5.6K Ω As per sample available at CIIT Lahore	500	Nos.			
299	Resistor	$\frac{1}{4}$ W- 5.6K Ω As per sample available at CIIT Lahore	500	Nos.			
300	Resistor	$\frac{1}{4}$ W- 6K Ω As per sample available at CIIT Lahore	500	Nos.			
301	Resistor	$\frac{1}{4}$ W- 6.8K Ω As per sample available at CIIT Lahore	500	Nos.			
302	Resistor	$\frac{1}{4}$ W- 8.2K Ω As per sample available at CIIT Lahore	500	Nos.			
303	Resistor	$\frac{1}{2}$ W- 10K Ω As per sample available at CIIT Lahore	500	Nos.			
304	Resistor	$\frac{1}{4}$ W- 10K Ω As per sample available at CIIT Lahore	500	Nos.			
305	Resistor	$\frac{1}{4}$ W- 12K Ω As per sample available at CIIT Lahore	500	Nos.			
306	Resistor	$\frac{1}{4}$ W- 15K Ω As per sample available at CIIT Lahore	500	Nos.			
307	Resistor	$\frac{1}{2}$ W- 18K Ω As per sample available at CIIT Lahore	500	Nos.			
308	Resistor	$\frac{1}{2}$ W- 22K Ω As per sample available at CIIT Lahore	500	Nos.			
309	Resistor	$\frac{1}{4}$ W- 33K Ω As per sample available at CIIT Lahore	500	Nos.			

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310	Resistor	$\frac{1}{4}$ W- 36K Ω As per sample available at CIIT Lahore	500	Nos.			
311	Resistor	$\frac{1}{4}$ W- 47K Ω As per sample available at CIIT Lahore	500	Nos.			
312	Resistor	$\frac{1}{4}$ W- 56K Ω	500	Nos.			
313	Resistor	$\frac{1}{4}$ W- 57K Ω As per sample available at CIIT Lahore	500	Nos.			
314	Resistor	$\frac{1}{4}$ W- 62K Ω As per sample available at CIIT Lahore	500	Nos.			
315	Resistor	$\frac{1}{4}$ W- 82K Ω As per sample available at CIIT Lahore	500	Nos.			
316	Resistor	$\frac{1}{4}$ W- 100K Ω As per sample available at CIIT Lahore	500	Nos.			
317	Resistor	$\frac{1}{4}$ W- 150K Ω As per sample available at CIIT Lahore	500	Nos.			
318	Resistor	$\frac{1}{4}$ W- 220K Ω As per sample available at CIIT Lahore	500	Nos.			
319	Resistor	$\frac{1}{4}$ W- 560K Ω As per sample available at CIIT Lahore	500	Nos.			
320	Resistor	$\frac{1}{4}$ W- 1M Ω As per sample available at CIIT Lahore	500	Nos.			
321	Capacitor	Electrolytic - 10uF As per sample available at CIIT Lahore	100	Nos.			
322	Capacitor	Electrolytic - 10nF As per sample available at CIIT Lahore	100	Nos.			

323	Capacitor	Electrolytic - 100nF As per sample available at CIIT Lahore	100	Nos.			
324	Capacitor	Electrolytic - 220nF As per sample available at CIIT Lahore	100	Nos.			
325	Capacitor	Electrolytic - 0.47uF As per sample available at CIIT Lahore	100	Nos.			
326	Capacitor	Electrolytic - 2.2uF As per sample available at CIIT Lahore	100	Nos.			
327	Capacitor	Electrolytic - 10uF As per sample available at CIIT Lahore	100	Nos.			
328	Capacitor	Electrolytic - 15uF As per sample available at CIIT Lahore	100	Nos.			
329	Capacitor	Electrolytic - 80uF As per sample available at CIIT Lahore	100	Nos.			
330	Capacitor	Electrolytic - 220uF - 63V As per sample available at CIIT Lahore	100	Nos.			
331	Capacitor	Variable - 10pF As per sample available at CIIT Lahore	100	Nos.			
332	Capacitor	Variable - 50pF As per sample available at CIIT Lahore	100	Nos.			
333	Capacitor	Variable - 100pF As per sample available at CIIT Lahore	100	Nos.			
334	LM555	As per sample available at CIIT Lahore	100	Nos.			
335	CD4046	As per sample available at CIIT Lahore	100	Nos.			

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336	2N3904	As per sample available at CIIT Lahore	100	Nos.			
337	1N4007	As per sample available at CIIT Lahore	500	Nos.			
338	2N3906	As per sample available at CIIT Lahore	100	Nos.			
339	Inductor	330 u Henry or equivalent As per sample available at CIIT Lahore	100	Nos.			
340	Inductor	18 m Henry or equivalent As per sample available at CIIT Lahore	100	Nos.			
341	Inductor	22 u Henry or equivalent As per sample available at CIIT Lahore	100	Nos.			
342	Inductor	100 u Henry or equivalent As per sample available at CIIT Lahore	100	Nos.			
343	Inductor	220 K inductor or equivalent As per sample available at CIIT Lahore	100	Nos.			
344	Inductor	680 Inductor or equivalent As per sample available at CIIT Lahore	100	Nos.			
345	Inductor	14 Henry or equivalent As per sample available at CIIT Lahore	100	Nos.			
346	FM Mic	As per sample available at CIIT Lahore	20	Nos.			
347	Soldering Iron	60W As per sample available at CIIT Lahore	1	No.			
348	Soldering Wire	As per sample available at CIIT Lahore	01	Roll			

349	Solder Sucker	As per sample available at CIIT Lahore	1	No.				
350	Magnifier Glass	As per sample available at CIIT Lahore	1	No.				
351	Cable	As per sample available at CIIT Lahore	4	Kg				
352	Cable Tie	As per sample available at CIIT Lahore	02	Pack				
353	Screw Driver Set	As per sample available at CIIT Lahore	1	No.				
354	Wire Crimping Tool	For Crimping Jumper Wires in the Lab	1	No.				
355	Component Box	24 Draw	2	Nos.				
Sub Total Amount (Rs)								
Final Year Project Lab (Common)								
356	Resistor	Variable - 2K Ω As per sample available at CIIT Lahore	50	Nos.				
357	Resistor	Variable - 3K Ω As per sample available at CIIT Lahore	50	Nos.				
358	Resistor	Variable - 5K Ω As per sample available at CIIT Lahore	50	Nos.				
359	Resistor	Variable - 10K Ω As per sample available at CIIT Lahore	50	Nos.				
360	Resistor	Variable - 50K Ω As per sample available at CIIT Lahore	50	Nos.				
361	Resistor	Variable - 500K Ω As per sample available at CIIT Lahore	50	Nos.				
362	Resistor	Variable - 1M Ω As per sample available at CIIT Lahore	50	Nos.				
363	Capacitor	Disk - 1nF As per sample available at CIIT Lahore	100	Nos.				
364	Capacitor	Disk - 10nF As per sample available at CIIT Lahore	100	Nos.				

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365	Capacitor	Disk - 100nF As per sample available at CIIT Lahore	100	Nos.			
366	Capacitor	Disk - 470nF As per sample available at CIIT Lahore	100	Nos.			
367	Capacitor	Electrolytic - 1uF As per sample available at CIIT Lahore	100	Nos.			
368	Capacitor	Electrolytic - 2.2uF As per sample available at CIIT Lahore	100	Nos.			
369	Capacitor	Electrolytic - 10uF As per sample available at CIIT Lahore	100	Nos.			
370	Capacitor	Electrolytic - 15uF As per sample available at CIIT Lahore	100	Nos.			
371	Capacitor	Electrolytic - 100uF As per sample available at CIIT Lahore	100	Nos.			
372	Capacitor	Electrolytic - 220uF As per sample available at CIIT Lahore	100	Nos.			
373	Transistor	NPN - 2N2222or equivalent As per sample available at CIIT Lahore	100	Nos.			
374	Transistor	JFET - J309or equivalent As per sample available at CIIT Lahore	200	Nos.			
375	Transistor	NPN - 2N3904or equivalent As per sample available at CIIT Lahore	100	Nos.			
376	Op-Amp	555 or equivalent As per sample available at CIIT Lahore	40	Nos.			
377	Op-Amp	LM741 or equivalent As per sample available at CIIT Lahore	100	Nos.			
378	Jumping wire	As per sample available at CIIT Lahore	1	Kg			
379	Screwdriver kit	As per sample available at CIIT Lahore	1	No.			
Sub Total Amount (Rs)							

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Note:

- Vendors are required to inspect sample of all items available at Electrical Engineering Department, CIIT-Lahore Campus before quoting price / model to avoid quality and specification issues.
- Purchase / work order (s) will be awarded **on Sub Total basis (Lab Wise)**.
- Please submit the bid on CIIT-Lahore prescribed BoQs and clearly mention the quoted model brands, otherwise your bid / item may be rejected.
- Multiple prices of an item may lead to the rejection of item/bid.