



Ref. No. MRSPTU/Purchase/18-19/.....903.....

Dt.....3/10/18.....

(Regd.)

To

As per list attached.

Sub: - Quotations for Purchase of Equipments for Basic Electrical Engineering Lab at PIT, GTB Garh (Moga).

Dear Sir,

01. You are requested to quote the rates for the items shown in the Appendix 'A' separately attached to this letter.

02. Following shall be taken note of while quoting the rates:-

- The rates will be F.O.R. PIT, GTB Garh (Moga).
- University is registered with the Department of Scientific and Industrial Research (DSIR) vide Registration no. TU/V/RG-CDE(1252)/2017 Dated. 25th January 2017 and therefore, eligible for GST on concessional rate as per above mentioned notification. Rate of GST (if extra) must be quoted accordingly.
- Quotation received later than due date are liable to be ignored/rejected.
- Quotation must be submitted on letter head of the firm with all particular, any other format will not be acceptable.
- The quality of the items to be quoted should be best available in the market.
- The envelope must bear the word:-

"QUOTATION FOR Purchase of Chemicals for Applied Chemistry Deptt., GZSCCET Bathinda.

**Enquiry No. As above dated _____
Due on 26-10-2018**

IMPORTANT: -In the absence of information as required under 2(f) above, if an envelope is received & opened inadvertently, the university will not be responsible and the quotation may not be considered even if quoting lowest rates.

03. The quotations duly completed should be in the name of Registrar and should reach the **office of the Registrar, Maharaja Ranjit Singh Punjab Technical University, Bathinda by 26-10-2018 up to 03:30 PM** and same shall be opened at **04:00 PM** on same date. Your representative may be present during the opening of the quotations.


**Finance Officer,
MRSPTU, Bathinda.**

Copy to:-

- ✓ Incharge, Computer Centre, to upload a copy on university & college websites.
- Director, PIT, GTB Garh (Moga).
- Master File.

P.T.O.

TERMS & CONDITIONS

1. **VICE CHANCELLOR RIGHTS:**

Vice Chancellor, MRSPTU, Bathinda reserves the rights of acceptance or rejection of any or all quotations. The discretion for increasing or decreasing of the quantities also rests with him. MRSPTU also not bind itself to accept the lowest price. In case of any dispute, the decision of Vice Chancellor, MRSPTU, Bathinda will be final & binding.

2. **VALIDITY OF QUOTATIONS:-**

Quotations will be considered valid for 03 months from the date of quotation.

3. **CORRESPONDANCE:**

No correspondence regarding acceptance/rejection of a quotation will be entertained.

4. **SAMPLE/BRAND/MAKE/WEIGHT:-**

Sample where asked for, will invariably be made available and sent along with the quotations. However, Brand/Make/Weight etc. must be mentioned clearly in the quotations. Technical literature/pamphlet should also be enclosed.

5. **REJECTION:-**

Quotation not conforming to the set procedure as above will be rejected.

6. **DISCOUNT/REBATES:-**

A Special discount/rebate wherever admissible keeping in view that the supplies are being made for education purpose in respect of Public Institution of national importance may please be indicated.

7. **DELIVERY PERIOD:-**

Minimum Period for delivery/job completion should be mentioned clearly.

8. **GUARANTEE/WARRANTY:-**

Guarantee/Warranty should be mentioned clearly.

MRSPTU shall not be held responsible for any postal delay in sending or late receipt of quotation. Quotation should be free from corrections & erasures.

BASIC OF ELECTRICAL ENGG LAB (BELEE0-102) AS PER 2018 SCHEME**For PIT GTB Garh**

Exp No.	Aim	Apparatus Required	Quantity Required
1	To verify Ohm's law.	Complete experimental setup consisting of :- 1. Experimental kit fitted with:- a. Bread Board b. Voltage Source c. Digital ammeter d. digital voltmeter 2. Carbon Resistances of different values. 3. Patch Cords	1
2	To verify Kirchhoff's Laws (KVL and KCL)	Complete experimental setup consisting of :- 1. Experimental kit fitted with:- (a) Bread Board (b) Voltage Source (c) Digital ammeter (d) digital voltmeter 2. Digital Multi meter 3. Carbon Resistances of different values. 4. Patch Cords	1
3	To study the resonance phenomenon of R-L-C series circuit.	Complete experimental setup consisting of :- 1. Experimental kit fitted with:- (a) Bread Board (b) Voltage Source (c) Ammeter (d) Voltmeter 2. Patch Cords	1
4	To demonstrate working of star-delta starter of three phase induction motor	Demonstrate model of star delta starter with internal view of components	1
5	To obtain the sinusoidal steady state response of R-L circuit – impedance calculation and verification. Observation of phase differences between current and voltage	Complete experimental setup consisting of :- 1. Experimental kit fitted with:- a) Bread Board b) Voltage Source c) Digital meters 2. Carbon Resistances of different values. 3. Patch Cords	1
6	To demonstrate the components of LT switch gear.	Demonstrate models of LT switch gear components.	1

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AT 16/8/18

7	To connect, start and reverse the direction of rotation of single-phase induction motor	<ol style="list-style-type: none"> 1. Single phase induction motor with panel consist of a phase changer, rotation cycle meter 2. Patch Cords 3. Phase sequence indicator 4. Tachometer 	1
8	To perform open- and short circuit tests on a single phase transformer and calculate its efficiency	<p>Single Phase Transformer 1 KVA 230/230V with Tappings at 50% & 86.6% Naturally Air Cooled Copper Double wound, Shell type. The transformer will be housed in MS sheet box enclosure with rubber footings. All the terminals of primary & secondary shall be brought over to bakelite sheet fitted on top of the box through insulated terminals.</p> <p><u>CONTROL PANEL FOR EXPERIMENT</u></p> <p>Fitted on ENGRAVED BAKELITE sheet enclosed in almirah type ms box suitable for table mounting.</p> <ol style="list-style-type: none"> 1. MI Voltmeter 96 x 96 mm Sq 0-300V 2. MI Voltmeter 96 x 96 mm Sq 0-30V 3. MI Ammeter 96 x 96 mm Sq 0-10A 4. MI Ammeter 96 x 96 mm Sq 0-1A 5. Single Phase Single Element Dynamo type Wattmeter 2.5/5 Amp, 75/150/300V Portable UPF type,. 6. Single Phase Single Element Dynamo type Wattmeter 1/2 Amp, 75/150/300V Portable LPF type, . 7. Single Phase Variac Air Cooled 0-270V, 1 No. 	1

Signature
16/08

Signature 16/8/18