



## GOVT. COLLEGE OF ENGINEERING, JALGAON

(An Autonomous Institute of Government of Maharashtra and affiliated to  
Kavayatri Bahinabai Chaudhari North Maharashtra University)

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Web:-www.gcoej.ac.in

No. GCOEJ /Instru /Inst. Level /M&E/2018-19 | 3114

Date :- 26 NOV 2018

To.  
AS PER ATTACHED SUPPLIER LIST

### Invitation for quotation

Sealed quotations are invited from manufacturers / their authorized suppliers for supply of the following equipments/machinery to this institute. The quotation in specified format, along with necessary supporting documents should be sealed in an envelope and submitted to this office on or before the prescribed time and date mentioned in this invitation letter. It should mention "quotation for Instrumentation Department" on sealed envelope

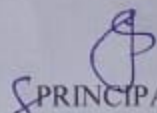
Separate quotations are to be submitted for each of the items mentioned below and such envelope must be super scribed with enquiry number and date and time of submission of the quotation for that item. The separate envelope containing copy of PAN Card, GST registration etc. should be submitted along with the quotation of equipment.

Sr.No.	Enquiry Number	Name of items	Quantity	Consignee	Estimated cost/unit (Rs)
1		SCR VI CHARACTERISTICS STUDY TRAINER	02	Principal, Govt. College of Engg, Jalgaon	3000
2		TRIAC VI CHARACTERISTICS STUDY TRAINER	02	Principal, Govt. College of Engg, Jalgaon	3500
3		DIAC VI CHARACTERISTICS STUDY TRAINER	02	Principal, Govt. College of Engg, Jalgaon	3000
4		SCR PARALLEL INVERTER TRAINER	01	Principal, Govt. College of Engg, Jalgaon	10000
5		SINGLE PHASE HALF WAVE RECTIFIERS	01	Principal, Govt. College of Engg, Jalgaon	9000

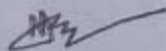
6	SINGLE PHSE FULL WAVE RECTIFIRE	01	Principal, Govt. College of Engg. Jalgaon	9000
7	AC PHASE CONTROL USING SCR, TRIAC & DIAC TRAINER	01	Principal, Govt. College of Engg. Jalgaon	8000
8	SINGLE PHASE DUAL CONVERTER	01	Principal, Govt. College of Engg. Jalgaon	15000
9	SPEED CONTROL OF SINGLE PHASE INDUCTION MOTOR	01	Principal, Govt. College of Engg. Jalgaon	30000

Last date for submission of above quotations to this office is 15/12/2018 till 1.00 pm

\*Technical specifications are given in Annexure I of this document.

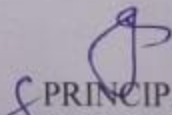
  
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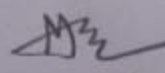
  
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## Instructions to bidders and Terms & Conditions

1. The quotations must be submitted in sealed envelope, in prescribed format with details of enquiry super scribed on envelope.
2. The quotations must be submitted by post or in the drop box kept in GCOEJ office section on or before the 1.00pm, 15 /12 / 2018. Quotations will be opened at 4.00 pm on the same day.
3. The quotations must be supported by necessary technical literature, and other documents as mentioned in this document.
4. The bidder must not be defaulter to any Government authorities and must not have been black listed / debarred from supplying goods.
5. The bid must be for all inclusive price of the goods must include all taxes and levies ( like GST ), transportation charges, freight etc and for warranty of 2 years from the date of installation.
6. Delivery to the consignee has to be effected within 4-6 weeks for the date of issue of purchase order.
7. Rates quoted should be valid for 90 days from the last date of submission of offer.
8. The bid offer must comply with all technical requirements of the user department/ consignee. Mere quoting of lowest price will not be the criteria for award.
9. The bidder must quote PAN number and GST number along with copies of GST registration and PAN card.
10. The consigned will make payment for the goods received by way of RTGS/NEFT/ECS, so the supplier will have to provide bank details to the consignee.
11. Payments will be done only after delivery, successful installation and working trial at the consignee's place. Advance payments will not be done.
12. This office may call for additional documents and/or information required for processing the bids.
13. This office reserves the right to reject any or all bid offers, without assigning any reason (/s), thereof.
14. List of documents to be attached :- i) covering letter with details of bidders, address, telephone number, mobile number, emailed, name signature and seal ii) type of business entity :-manufacturer/authorized dealer, any others ( to be specified ) iii)PAN card Xerox iv) GST number registration certificate / print out v) offer letter stating make and model quoted, quantity, accessory, part number etc. (THIS OFFER LETTER SHOULD BE SEPARATE FROM OTHER DOCUMENTS mentioned herein) vi) authorization from manufacturer regarding support during bidding process and warranty period, in case the bidder is not a manufacturer. vii) Technical literature of items quoted. viii) Price quote along with taxation, inclusions and exclusions, if any. ix) Under taking that the bidder has not been black listed or debarred from supplying previously. x) Undertaking about compliance of terms and conditions mentioned in this quotation.

  
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# Annexure I

## Technical specifications

Sr.No.	Enquiry No / Name of items /Specifications
1	<p><b>Enquiry number:-</b></p> <p><b>Item name :- SCR VI CHARACTERISTICS STUDY TRAINER</b></p> <ul style="list-style-type: none"> <li>* power supply for gate voltage.</li> <li>* potentiometer used to vary the gate current</li> <li>* 0 - 30V DC variable power supply for anode, cathode voltage variation.</li> <li>* One no. potentiometer used to vary the <math>V_{ak}</math>.</li> <li>* One no high wattage fixed load resistor.</li> <li>* One no. toggle switch to ON/OFF gate voltage.</li> <li>* Two no. DC ammeter, (optional)</li> <li>Voltmeter /multimeter provided to measure <math>I_g</math> &amp; <math>V_{ak}</math>, <math>I_a</math>. (optional)</li> <li>* 230V AC input Power ON/OFF switch.</li> <li>* All components are mounted on a screen printed PCB fixed on wooden cabinets</li> </ul>
2	<p><b>Enquiry number:-</b></p> <p><b>Item name :- TRIAC VI CHARACTERISTICS STUDY TRAINER</b></p> <ul style="list-style-type: none"> <li>* power supply for gate voltage.</li> <li>* potentiometer used to vary the gate current.</li> <li>* 0 - 30 / 50V DC variable power supply for MT1, MT2 voltage variation.</li> <li>* potentiometer used to vary the <math>V_{mt1}</math>, <math>mt2</math>. One no. high wattage fixed load resistor</li> <li>* One no. toggle switch to ON/OFF gate voltage.</li> <li>* Two no. DC ammeter, voltmeter / multimeter provided to measure device parameters.(optional)</li> <li>* 230V AC input Power ON/OFF switch with indication.</li> <li>* All components are mounted on a screen printed PCB fixed on wooden cabinets.</li> </ul>
3	<p><b>Enquiry number:-</b></p> <p><b>Item name :- DIAC VI CHARACTERISTICS STUDY TRAINER</b></p> <ul style="list-style-type: none"> <li>* Consists of one no. DIAC with heat sink</li> <li>Operated on Mains power 230V, 50Hz +10%</li> <li>Dual Regulated Power Supply (0 – 50) V</li> <li>Input : 230V, AC;</li> <li>Two no. DC ammeter, voltmeter / multimeter provided to measure device parameters.(optional)</li> <li>All components are mounted on a screen printed PCB fixed on wooden cabinets.</li> <li>One no. toggle switch to ON/OFF gate voltage.</li> </ul>
4	<p><b>Enquiry number:-</b></p> <p><b>Item name :- SCR PARALLEL INVERTER TRAINER</b></p> <ul style="list-style-type: none"> <li>* Consists of SCR power circuit and firing circuit.</li> <li>* IC Based square wave generation with adjustable frequency.</li> <li>* potentiometer used to vary the frequency (50 - 100Hz).</li> <li>* 1:1 Pulse transformer used for gate pulse isolation.</li> <li>* Pulse output terminated in the PCB for user patching.</li> <li>* Power circuit consists of two No's SCR inverter transformer with flay back winding.</li> <li>* Iron core inductor provided for power circuit.</li> </ul>

	<ul style="list-style-type: none"> <li>* AC capacitor for SCR commutation.</li> <li>* 24V / 2A DC power supply with LED indication.</li> <li>* toggle switch used to ON/OFF 24V DC power supply.</li> <li>* Over load and short circuit protection provided for DC power supply.</li> <li>* 230V, 50Hz AC input, +15V DC / 1AMP for control circuit.</li> <li>* fuse provided for power supply protection, necessary test points provided.</li> </ul>
5	<p>Enquiry number:-</p> <p>Item name :- SINGLE PHASE HALF WAVE RECTIFIRE</p> <p>a. Half Wave rectifier</p> <ul style="list-style-type: none"> <li>* SCR rated at 600V, 12A is provided</li> <li>* R, C Based firing</li> <li>* Lamp load is provided</li> <li>* potentiometer is used to vary the firing angle of SCR</li> <li>* 230V/24V operation</li> </ul>
6	<p>Enquiry number:-</p> <p>Item name :- SINGLE PHASE FULL WAVE RECTIFIRE USING</p> <p>a. Full Wave Rectifier</p> <ul style="list-style-type: none"> <li>* SCR rated at 600V, 12A is provided</li> <li>* R, C Based firing</li> <li>* potentiometer is used to vary the firing angle of SCR.</li> <li>* 230V/24V operation</li> </ul>
7	<p>Enquiry number:-</p> <p>Item name :- AC PHASE CONTROL USING SCR, TRIAC &amp; DIAC TRAINER</p> <ul style="list-style-type: none"> <li>* It consists of UJT firing circuit &amp; SCR AC regulator, DIAC firing circuit with TRIAC AC Regulator.</li> </ul> <p><b>UJT Firing Circuit with SCR AC Regulator</b></p> <ul style="list-style-type: none"> <li>* Line synchronized UJT triggering circuit, line Synchronization achieved by 230V / 9V step down transformer.</li> <li>* Built in 24V AC for firing circuit input. One No's Toggle switch to ON/OFF 24V AC.</li> <li>* Potentiometer used to vary the firing angle [10° - 170° degree].</li> <li>* 1:1:1 Pulse transformer used for gate pulse isolation.</li> <li>* Pulse outputs are terminated in the PCB for external connection.</li> <li>* Two No's SCR connected in antiparallel forms SCR AC regulator with Termination.</li> </ul> <p><b>DIAC Firing Circuit with Triac AC Regulator</b></p> <ul style="list-style-type: none"> <li>* One no. Potentiometer and different values of capacitor and one no. DIAC forms DIAC firing circuit.</li> <li>* Two No's Toggle switch to select different value of capacitor.</li> <li>* One no. TRIAC used as a AC Regulator with termination.</li> <li>* One no. 100W lamp used as a load.</li> </ul>
8	<p>Enquiry number:-</p> <p>Item name :- SINGLE PHASE DUAL CONVERTER</p> <p>Technical Specification</p> <p>Input voltage : 110V</p> <p>Frequency : 50Hz</p> <p>Output Voltage : 140V DC</p> <p>Single phase Dual Converter</p> <p>Patch cards</p> <p>6A power supply card</p>

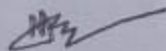
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