

**Tender for Supply of Equipment & Instruments  
for  
Setting up of "JCE Power System Simulation Laboratory"  
Department of Electrical & Electronics Engineering**

**Jain College of Engineering  
T S. Nagar, Hunchanatti Cross, Machhe,  
BELAGAVI 590014**

**Supported by** Vision Group on Science & Technology ,  
Government of Karnataka through K-FIST (Level-I) Programme  
through

e-Procurement

Government of Karnataka

<https://eproc.karnataka.gov.in>

Department of **Electrical & Electronics Engineering**

**Jain College of Engineering  
T S. Nagar, Hunchanatti Cross, Machhe,  
BELAGAVI 590014**

Ph.: 0831-2411192

**Tender Documents Available for Download:** 03-07-2018

**Last Date for Submission of Tender:** 20-07-2018

**Place of opening of Tenders:** Principal's Office  
Jain College of Engineering  
T S. Nagar, Hunchanatti Cross, Machhe,  
Belagavi, 590014, Karnataka  
Mob.: 9342997171  
Email: [vishwakg@yahoo.co.in](mailto:vishwakg@yahoo.co.in)

**Address for Communication:** Principal & Director  
Jain College of Engineering  
T S. Nagar, Hunchanatti Cross, Machhe,  
Belagavi, 590014, Karnataka  
Ph.: 0831-2411192 Fax.: 0831-2411458  
Mob.: 9342997171  
Email: [vishwakg@yahoo.co.in](mailto:vishwakg@yahoo.co.in)

## **Tender Notification**

E-Tenders are invited by the Principal, Jain College of Engineering, through E Procurement web portal of Govt. of Karnataka from Competent firms for the following works, subject to the Terms and Condition mentioned below:

1	Name of the work	Supply, installation & commission of equipment for “JCE Power System Simulation Laboratory” (Ref: VGST-GRD 382) at Department of Electrical & Electronics Engineering, Jain College of Engineering, Belagavi- 590014, Under VGST K-FIST Level I Grants
	Approximate Value of work	13 Lakhs
	Earnest Money Deposits (EMD)	Rs. 20,000/-
	Tender Documents Available for download	03/07/2018
	Last date of receipt of Tender through e-portal	23/07/2018 17.00 Hrs
	Opening pf Tenders	25/07/2018 11.00 Hrs
	Availability of Tender Documents	<a href="http://www.eproc.karnata.gov.in">http://www.eproc.karnata.gov.in</a>

### **Terms and Conditions:**

#### **Eligibility Criteria:**

##### **A) Statutory Requirements:**

1. The tenderer should furnish firm registration details.
2. The tenderer should furnish KST/CST/VAT/GST Registration Certificate
3. The tenderer should have registered with the Concerned Statutory Authorities establishment the legal status, place of registration and principal place of business of the company or partnership, as the case may be.
4. IT returns for last 3 years

##### **B) Technical Requirements**

1. At least 3 years experience/expertise in the supply, installation & training of similar work tendered and the cost of such works should be not less than 40 lakhs in any state central Govt. or Quasi Govt. Dept. or Undertaking/Universities/Engg. Colleges etc. Enclose the list of clients.
2. Competence/Expertise of the Bidder in the Execution of the tendered work is awarded.

3. Further conditions and details of tenders incorporated in tender document are binding on all the bidders.
4. Demo of module & certificate by the competitive authority of college is necessary for uploading tender
5. Equipment must fulfill the specification as mentioned in the document.

**C) Financial/Commercial Requirements:**

1. A turn-over of not less than 40 Lakhs rupees during 2 years, in the last 5 financial years.
2. The bidders should obtain/download the tender documents as stated above, through E-Procurement platform of Govt. of Karnataka, <http://www.eproc.karnataka.gov.in>, on payment of requisite tender fees as prescribed by E-governance. For further information, contact undersigned during office hours of working days.

The Principal & Director  
Jain College of Engineering  
T S. Nagar, Hunchanatti Cross, Machhe,  
Belagavi, 590014, Karnataka  
Ph.: 0831-2411192 Fax.: 0831-2411458  
Mob.: 9342997171  
Email: [vishwakg@yahoo.co.in](mailto:vishwakg@yahoo.co.in)

3. EMD is to be paid online during submission of tender documents.
4. If the tender is cancelled due to unforeseen reasons, the cost of the tender form will not be refunded.
5. The details of work can be obtained from the Principal, Jain College of Engineering, Belagavi, 590014 during working hours.
6. The bidders should obtain/download the tender document as stated above, through E-procurement platform of Govt. of Karnataka, <http://www.eproc.karnataka.gov.in>.
7. The Principal & Director Jain College of Engineering, Belagavi reserves the right to accept/reject any or all the tenders without assigning any reasons, whosoever.

**D) Service, Warrant and Training:**

1. The system should be accompanied with conformity certificate.
2. Tendered price should include all kind of taxes and other viz delivery, installation, commissioning and training at customers location.
3. One site installation, commissioning and training shall be conducted by a qualified factory-trained engineer.
4. Complete support for equipment for at least a period of 12 months. This shall include the following at no extra cost:

Travel and Labour expenses of Customer Engineer.

Service Parts used for repairs.

5. Vendor to provide service guarantee, if the system require service during the warranty period, vendor must guarantee the service/replacement of the system at free of cost.
6. Vender to have logistic support to ensure that over at least 95% of service parts are readily available and upkeep delivery within 24 hours.
7. The warranty shall commence only upon successful completion of the acceptance test or commissioning.
8. Support will be available from Monday to Friday,8:30AM to 5:30PM (excluding public holidays), local time.
9. Vendor to provide a copy of site preparation check list.
10. Vendor to provide both on site & operator training for users on the system startup, usage, maintenance, quality control, troubleshooting, etc. including comprehensive class room training.
11. Vendor must demonstrate that it has a proven appropriate setup and capability to provide after sales service efficiently & effectively. The supplier should have in his facility as similar system to that proposed in the tender for training purpose.
12. Successful vender need to complete assigned consignment within 45 days of the receipt of the work order.

Dr. G. H. Kulkarni  
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 Jain College of Engineering,  
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### **List of Equipment with Quantity Required**

Sl. No.	Items to be procured only through E-tender process	Technical Specification of Equipment	Total Unit/ Quantity required
1	Power System Hardware Modules i. Generation, ii. Transformer, iii. Transmission, iv. Distance protection scheme	<b>information in Annexure</b>	1each

### Annexure Technical Specification of the Equipments

S. No.	Name of the Item.	Product Description	Quantity
1	Generation Trainer with Synchronoscope	A) Generation trainer consisting of 5X4 aluminum profile rack, EMT(Electrical Machine Trainer)1, EMT4, EMT8, EMT9- 03 No, EMT 15A/B, EMT 6A/6B, EMT34, EMT 15A/B, EMT 14A/B with trunnion mounted to 300 W DC integrated motor coupled to 3 phase 300 W salient pole alternator with PC interface	1
		B) Test gear for synchronizing of 2 no. of 3 phase generator (3 phase machines) consisting of one set of EMT synchronoscope panel with 3X2 lamps, Sync switch, essential accessories like connecting cables, student workbook, patch cords etc	1
2	Transformer Trainer Kit	Transformer trainer model consisting of 1 No. 3 phase (300VA), 2 No. of 1 phase (300VA) with 4X 3 flat demo panel systems, 3 phase dimmer with PC interface	1
3	Transmission line Trainer Kit	Transmission line trainer consisting of EMT 1, EMT 32-02 No. EMT 4A, EMT 43, EMT 38, EMT 42/B/C EMT 20D 3 No. with PC interface.	1
4	Distance Relay Protection with PC Interface	A) Power protection relay trainer using with distance protection relay consisting 5X4 rack, EMT1, EMT34= 2 No, EMT4A, EMT48, EMT16A, EMT54, Distance relay panel EMT53, table top EMT38 and EMT42A, RS232 to USB converter with PC interface.	1
		B) Power protection relay trainer using numerical IDMT over current protection relay consisting of EMT 16A, EMT 23A, EMT 39A EMT 50A and numerical IDMT over current relay panel.	1