



Department of Electrical Engineering  
Indian Institute of Technology Madras  
Chennai – 600 036, India

Dr. B. Kalyan Kumar,  
Associate Professor,  
Electrical Engineering Department

Ref: No.ELE/17-18/PSCAD /KALY

Date:14.6.2017

Due date: 30.06.2017

Dear Sir,

1. Quotations are invited in duplicate for the various items shown below/overleaf/**enclosed list**.
2. The **quotations are to be in two parts as Technical Offer and as Commercial offer**: The two parts of the offer are to be clearly marked on the envelopes. The two parts of the offer in separate envelopes must be enclosed in the one bigger envelope duly sealed and super scribed with reference number and due date and must be addressed to the undersigned so as to reach him on or before the due date stipulated above.
3. **Fax and Email quotation are not acceptable.**
4. Quotations should be valid for 60 days from the due date and period of delivery required, warranty terms etc. should also be clearly indicated. A minimum of one year warranty is required from the date of commissioning.
5. Imported supplies should be quoted **for CIF Madras**.
6. Local firms to quote for free delivery to this Institute. If quoted for Ex-Godown delivery charges be indicated separately.
7. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. Samples / machine/ equipment if called for should be submitted / demonstrated at free of charges, and collected back at the supplier's expenses. Compliancy certificate is to be provided indicating conformity to the technical specifications
8. Sales Tax/General Taxes/ED if applicable and such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. If this is not indicated no such claim will be admitted at any stage. The taxes leviable should take into consideration that we are entitled to have concessional Sales Tax applicable to Non-Government Educational Institutions run with no profit motive for which a concession is given. Sales Tax Certificate will be issued at the time of final settlement of the bill.
9. Goods should be supplied carriage paid and insured.
10. Goods shall not be supplied without an official supply order.
11. If the item is under DGS&D Rate contract No. and the price must be mentioned. It may also please be indicated whether the supply can be made direct to us at the Rate contract price (Please note that we are not Direct Demanding Officers). If so please send copy of the RC.
12. The Guarantee period of the item may be indicated clearly.
13. In case of LC. Payment, 90% of the payment will be made after completion of the supply. The balance 10% of the payment will be made after satisfactory installation of the equipment.
14. IIT Madras is exempt from payment of Excise Duty and is eligible for concessional rate of custom duty. Necessary certificate will be issued on demand. IIT Madras will make necessary arrangements for the clearance of imported goods at the Airport/Seaport. Hence the price should not include the above charges.
15. **Acceptance and Rejection**:- I.I.T. Madras has the right to accept the whole or any part of the Tender or portion of the quantity offered or reject it in full without assigning any reason.

Yours faithfully,

Dr. B. Kalyan Kumar

Items required: PSCAD X4 professional latest version as per specifications enclosed.



**Dr. B. Kalyan Kumar,  
Associate Professor,  
Electrical Engineering Department**

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**Technical Specifications**

**Software Required: PSCAD X4 Professional Latest Version**

**Number of users: Single user**

**PSCAD X4 Professional software should have the following features:**

Global Substitutions  
Component Properties Viewer  
User Support Petition Request  
Line Constants Detailed Output Viewer  
Tri-Segmented Wire Type  
Unit Converter  
Phasor Meter Device  
Navigation History Buttons  
Multi-meter Component  
Potential Transformer (PT)  
Permanent Magnet (PM) Synchronous Machine Model  
Multiple Instance Modules  
EMTDC™ Runtime Configuration  
XML-Based Project Files  
Transmission Segment Mutual Coupling  
Module Independent Subsystem Splitting  
Oscilloscope Metering Device  
Save Graphic Objects to File  
Zoom Rectangle and Extents  
Saturable Reactor Model  
Spark Gap Model  
Discrete Wavelet Transform (DWT) Model  
Enhanced Auto-Transformer Model  
Transmission Segment DC Correction Algorithm  
Unique Ground Wires in Transmission Towers  
Hollow Transmission Conductor Support  
PI Section Auto-Creation  
Ribbon Control Bar  
Tabbed Project Interface  
Enhanced Component Wizard  
Docked Parameters Window  
Output Module Parameters  
Windows Regional Settings Control  
1-Phase, L-L Fixed Load Model  
Space-Vector Modulation (SVM)

Pipe-Type Cable Model  
Semi-Conductor Layers in Coax Cable Model  
Ideal Cable Cross-Bonding  
Buried Non-Insulated Cables  
Saad Earth Return Approximation Formula  
Frequency-Dependent Ground Conductivity  
Inter-Project Module Instances  
Multiple Workspaces  
Blackbox Modules  
Simulations Sets / Multiple EMTDC  
64-Bit Option  
Transmission Segments Solved in Parallel  
EMTDC Message Log Window  
Enhanced v4.2 Import Functions  
Photovoltaic (PV) Source Model  
Multi-Dimensional CSMF Components  
Aerial Transmission Cables  
IEEE 2005 Standard Exciter / Stabilizers  
Transmission Segment Passivity Checking  
Branch Number Searching  
Electric Network Interface (ENI)  
Volley Launch/Root Control  
Certificate Licensing (Coming Soon)  
Comparator Tool  
Parameter Grid Pane  
Layers Pane  
Bird's Eye View Navigation Pane  
Intel Fortran 14 & 15 Support

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**Note:** IIT is exempt of Customs Duty and Excise Duties. No concessional forms for VAT/CST will be issued. Quantities indicated may be increased or decreased depending on project requirements.

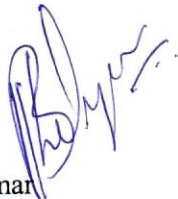
**Terms:** Payment will be released within 2-3 weeks of receipt of invoice and receipted DC at IIT Madras. Taxes : IIT Madras is exempt from Excise Duty. VAT may be charged extra.

**Quotations may be sent by speed post/courier before 30<sup>th</sup> June, 2017 and must be addressed to:**

Dr. B.Kalyan Kumar,  
Associate Professor,  
Department of Electrical Engineering,  
IIT Madras, Chennai 600 036.

Thanking you,

Yours Sincerely,



Dr. B. Kalyan Kumar  
Associate Professor,  
Department of Electrical Engineering,  
IIT Madras, Chennai 600036.