

**NATIONAL INSTITUTE OF TECHNOLOGY  
KURUKSHETRA-136119**

No. EED/2017/6157

Dated:


M/s INSTITUTE WEBSITE

**Sub: INVITATION OF QUOTATIONS FOR DFIG BASED WIND EMULATOR**

1. You are invited to submit your most competitive quotation for the following goods:

Sr.No.	Brief Description & Specifications of Goods	Quantity
1.	DFIG Based Wind Emulator  (Detailed Specifications are attached)	01 Nos.

2. Necessary literature of the goods may please be sent to facilitate to take decision.
3. All duties taxes and other levies payable by the Institute shall be included in the total price. This Institute does not issue Form C or D.
4. Payment will be made Online through RTGS/NEFT within 30 days after receipt of material in good condition and according to specifications. The Bank detail for making online payment may be indicated in the quotation.
5. The supplier shall deposit Earnest Money alongwith the Quotation amounting to Rs. 34000 /- in shape of Accounts Payee Demand Draft, Fixed Deposit Receipt, Bankers Cheque or Bank Guarantee from any commercial Bank in favour of the Director, National Institute of Technology, Kurukshetra. The Quotations without Earnest Money shall be rejected, the EMD will remain valid for a period of 45 days beyond the final validity period of quotation.
6. Performance Security @ 05% of the total value of the equipment may be furnished in shape of Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any Commercial Bank in favour of the Director, NIT Kurukshetra valid upto 60 days after the date of completion of warranty .
7. The items must be supplied within delivery period or delivery period extended by the Institute on the request of the supplier on genuine grounds otherwise the penalty for delayed period @ 0.5% of the amount shall be charged for every week or part thereof and the maximum 10%..
8. The goods are not required exclusively for Research Purpose. The Duties are payable by the Institute.
9. The quotation should remain valid for a period not less than 60 days from the date of submission.
10. The right of accepting or rejecting any quotation and to cancel the bidding process and reject all quotations without assigning any reason is reserved with the Institute.
11. The due date for receipt of quotation is 21.03.2017 and will be opened on next working day. Please quote on the top of the envelope our Ref. No. and due date of opening.

  
Deputy Registrar (I/c Stores) 09/03/17



## PROCUREMENT OF DFIG BASED WIND EMULATOR

### SPECIFICATIONS ALONG WITH TERMS & CONDITIONS

1. High output power – 12 KVA
2. Easy to simulate environmental conditions
3. Output ports for voltage and currents 15 outputs
4. Graphical HMI to monitor the status & to enter system parameters
5. 2 modes of prime mover control: Variable speed/Wind turbine simulator

Following tabulated parameters are to be satisfied:

Parameter	Specifications of Key sight
DFIG Ratings	Rated VA = 12 KVA Rated Voltage = 415V 3-phase Speed = 1500 rpm Poles = 4
Interface	Dspace, FPGA and DSP
Safety	As per Indian standards
Rotor Side Inverter	Output Voltage = 0-415 V 3-phase Frequency = 0-50 Hz Output Power = 10KW Current Rating = 15 Amp
Front End Converter	Input Voltage = 0-415 V 3-phase Frequency = 50 Hz Current Rating = 15 Amp
DC link	Input Voltage = 660 V DC Input Current = 15 Amp
Modes of operation	Grid connected and Stand alone

Vendor should satisfy the **TERMS AND CONDITIONS** as tabulated below:

1	<b>Warranty</b>	Warranty required for <b>2 year</b> from date of delivery and demo of all products.
2.	<b>Delivery period</b>	Should deliver the equipment within <b>6-8 weeks</b> from the date of receipt of purchase order.
3.	<b>Installation</b>	Installation of equipment should be free of cost.
4.	<b>Payment</b>	Payment will be against delivery and demo.
5.	<b>Validity of quotation</b>	Quotation should be valid for <b>120 days</b> from the date of quotation sent.
6.	<b>Authorization</b>	Product authorization certificate to the vendor is mandatory. Also, the Vendor dealership/ownership/relevant details/address must be listed in the manufacturer's company website. <b>The vendor must provide the URL in the quotation for authentication.</b>
7.	<b>Authentication of technical specifications</b>	The relevant product number/model specified in the quotation should also be available in the manufacturer website. The quoted specifications by the vendor should match with the specifications available in the manufacturer website. <b>The vendor must provide the URL in the quotation for the authentication of specifications.</b> Official brochure of the product must be attached.
8.	<b>Relaxation</b>	Terms & conditions specified above do not have any relaxation at any case.