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NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI-620 015 INVITATION FOR QUOTATION

TEQIP-III/2017/NITT/Shopping/41

01-Nov-2017

To,

Address (Firm)

Sub: Invitation for Quotations for supply of Power Converter Modules and Accessories Mounting.

Dear Sir,

1. You are invited to submit your most competitive quotation for the following goods with item wise detailed specifications given at Annexure I,

Sl. No	Brief Description	Quantity	Delivery Period (In days)	Place of Delivery	Installation Requirement (if any)
1	Power Converter Modules And Accessories Mounting	4	45	Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli	Installation to be done in the Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli, Tamil Nadu

- 2. Government of India has received a credit from the International Development Association (IDA) towards the cost of the Technical Education Quality Improvement Programme[TEQIP]-Phase III Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.
- 3. Quotation,
 - 3.1 The contract shall be for the full quantity as described above.

- 3.2 Corrections, if any, shall be made by crossing out, initialing, dating and re writing.
- 3.3 All duties and other levies payable by the supplier under the contract shall be included in the unit price.
- 3.4 Applicable taxes shall be quoted separately for all items.
- 3.5 The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- 3.6 The Prices should be quoted in **Indian Rupees only**.
- 4. Each bidder shall submit only one quotation.
- 5. Quotation shall remain valid for a period not less than **45** days after the last date of quotation submission.
- 6. Evaluation of Quotations,

The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which

- 6.1 are **properly signed**; and
- 6.2 confirm to the terms and conditions, and specifications.
- 7. The Quotations would be evaluated for all items together.
- 8. Award of contract:

The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

- 8.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.
- 8.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.
- 9. Payment shall be made in Indian Rupees as follows:

Delivery, Installation & Satisfactory Acceptance - 100% of total cost

- 10. All supplied items are under warranty of **12** months from the date of successful acceptance of items.
- 11. You are requested to provide your offer latest by 15:00 hours on 30-November-2017.
- 12. Opening time: 30-November-2017 16:00 hours at TEQIP Office, Administrative Building, NIT Trichy
- 13. Detailed specifications of the items are at Annexure I.
- 14. Training Clause (if any) NA.

- 15. Testing/Installation Clause (if any) 100% payment after delivery and successful installation at Department of Electrical and Electronics Engineering, NIT, Tiruchirappalli 620 015, Tamil Nadu
- 16. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
- 17. Sealed Quotations to be submitted at the following address:

The Head of Department

Dept. of Electrical and Electronics Engineering National Institute of Technology Tiruchirappalli – 620 015.

18. We look forward to receiving your quotation and thank you for your interest in this project.

Note: The cover should be duly superscribed with the following details.

- (1) Quotation Reference Number (2) Quotation for the supply of
 - (3) Date of opening

(Dr. K. Sundareswaran) HoD/EEE

Annexure I

SI. No	Item Name	Specifications		
1	Power Converter Modules And Accessories Mounting	1. DC-DC Buck/ Boost/ Buck-Boost Converter Power Module Input Voltage maximum: 100 Volts DC Output Voltage maximum: 100 Volts DC Output maximum Current: 5 Ampere Power rating: 500W PWM input externally provided (0-5V), Switching Frequency: (20-200) Khz MOSFET Switching Device with optocoupler and driver Consists of controller, LC components, Hall effect sensor and signal conditioner MODFET fixed with proper heat sink and snubber circuit provided. Inbuilt driver power supply provided. Isolated sensor provided for input voltage & current. Multiplier IC provided for power calculation. Programmable through MATLAB Simulink models/MATLAB Code Provision to work independently as Buck or boost or Buck-Boost converter Should Include all Module interfacing accessories and laboratory Mountings Single phase AC-DC Converter: Input Voltage: (0-230) Volts AC Output Voltage: (0-230) Volts DC Output Current: (3-5) Ampere SCR rating: 1200Volt @ 25 Amp with snubber circuit Consists of controller and related components Digital Controller for PWM Generation. Provision to connect as fully and half controlled converter Programmable through MATLAB Simulink models/MATLAB Code Should Include all Module interfacing accessories and laboratory Mountings		

3. Three phase AC-DC Converter:

• Input Voltage: (0-415) Volts AC

• Output Voltage: (0-415) Volts DC

• Output Current: (3-10) Ampere

• SCR rating: 1200Volt @ 25 Amp with snubber circuit

• Consists of controller and related components

• Digital Controller for PWM Generation

Provision to connect as fully and half controlled converter

• Programmable through MATLAB Simulink models/MATLAB Code

• Should Include all Module interfacing accessories and laboratory Mountings

4. DC-AC Converter:

• Input Voltage: 220 Volts DC

• Output Voltage: 220 Volts AC

• Output Current:(10-15) Ampere

• Switching Frequency: (100-250) Khz

• Consists of controller and SIC based Single Phase MOSFET Power Module with snubber circuit.

• Consists of controller, Hall effect voltage and current sensor and signal conditioner

• Programmable through MATLAB Simulink models/MATLAB Code

• Switch for single phase inverter 180-degree mode operation

• Operating voltage of 650V and current 12A nominal

• Over current and Over voltage protection circuit.

• Should Include all Module interfacing accessories and laboratory Mountings

Features

• Nominal system voltage automatic recognition

 Full control parameters setting and modification, diversified load control mode

FORMAT FOR QUOTATION SUBMISSION

(In letterhead of the supplier with seal)

	Date:
To:	

				Quoted Unit rate in Rs.		Sales tax a	and other
SI. No.	Description of goods (with full Specifications)	Qty. Unit		(Including Ex Factory price, excise duty, packing and forwarding, transportation, insurance, other local	Total Price (A)	taxes payable	
			Unit			In	In figures
			costs incidental to delivery and warranty/ guaranty	(~)	%	(B)	
				commitments)			
	Total Cost						

	Gross Total Cost (A+B): Rs		
We agree to supply the above goods in accordance with the technical specification	ions for a total contract price of Rs. —————	- (Amount in figures)	
(Rupees ——————amount in words) within the period specified in the Inv	itation for Quotations.		
We confirm that the normal commercial warranty/ guarantee of $$	months shall apply to the offered items and we also c	onfirm to agree with	
terms and conditions as mentioned in the Invitation Letter.			
We hereby certify that we have taken steps to ensure that no person acting for us	s or on our behalf will engage in bribery.		
Signature of Supplier Name: Address: Contact No:			