



भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

धनबाद, झारखण्ड, भारत, पिन-826004

(मानव संसाधन विकास मंत्रालय, भारत सरकार के अधीन राष्ट्रीय महत्व का एक संस्थान)

INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD

DHANBAD, JHARKHAND, INDIA, PIN-826004

(An Institute of National Importance under Ministry of H.R.D., Govt. of India)

STORES & PURCHASE SECTION Phone:(0326) 2235678 || Email : purchase@iitism.ac.in || Website : www.iitism.ac.in

File No. TEQIP/500494/17-18

Date:16th April, 2018

Notice Inviting Quotation

Subject: Supply & Installation of Grid Tied Solar Inverter

The Indian Institute of Technology (Indian School of Mines), Dhanbad is interested for the purchase of the materials/ equipment listed below:

S No	Description of item(s)	Quantity	Remarks
1	Supply & Installation of Grid Tied Solar Inverter (Detail specification in Annexure I)	01 No.	At the earliest/ Ex-stock

Tender Schedule:

Particulars	Date & Time
Last date and time for submission of tenders	15.05.2018 at 1:00 P.M.
Date and time of opening of tenders	15.05.2018 at 4:00 P.M.

INSTRUCTIONS:

- Please attach relevant technical literature of the item.
- Please mention warranty/guarantee period in your offer.
- Please mention after sales service information in your offer.
- Price should be in F.O.R. IIT(ISM), Dhanbad basis only.
- Please attach a certificate that the quoted price is not more than that of any other Govt. organization/ institution in India. This has to be mentioned in the offer letter clearly.**
- The rates should be quoted for each item separately.
- Quotation,
 - The contract shall be for the full quantity as described above.
 - Corrections, if any, shall be made by crossing out, initialing, dating and re writing.
 - All duties and other levies payable by the supplier under the contract shall be included in the unit price.
 - Applicable taxes shall be quoted separately for all items.
 - 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.
 - The Prices should be quoted in Indian Rupees only.
- Each bidder shall submit only one quotation.
- Rates quoted will be taken as inclusive of all taxes unless given separately. IIT (ISM) does not issue any Form 'C' or 'D' towards sales tax concessional rate. Hence, full rate of sales tax/ VAT, GST applicable should be quoted.
- The items/ materials shall be required to be delivered at **Department of Electrical Engineering, IIT(ISM), Dhanbad** at the risk and cost of the tenderer.
- Your tender must be **valid for minimum 55 days** from the date of opening of tender.
- The stores are required to be delivered within **84 days**, late delivery may not be accepted.



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- 13) Full details of stores offered should be given in the tender along with supporting & relevant literatures/ Technical Literature.
- 14) Sales Tax/ VAT Registration Number, GSTIN should be clearly mentioned in your offer, failing which your offer may not be considered.
- 15) The items offered should be of good quality confirming to BIS standards, wherever applicable.
- 16) Evaluation of Quotations,
The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which
 - a. are properly signed ; and
 - b. confirm to the terms and conditions, and specifications
- 17) The Quotations would be evaluated for all items together.
- 18) All supplied items are under warranty of 12 months from the date of successful acceptance of items
18. 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.
 - a. 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.
 - b. 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.
- 19) **Advance payment is not admissible.** Payment shall normally be made within 3-4 weeks subject to receipt and acceptance & installation (as per Purchase Order Terms) of the ordered materials/items.
- 20) In the event of the supplier failed to supply the materials or install the same as contractual condition, IIT (ISM) shall have the right to deploy suitable agency/ third party to get the job completed at the risk and cost of the supplier.
- 21) Tender must be submitted **in sealed cover only superscribed with Enquiry No. TEQIP-500494-2017-18 and due date** as is **15.05.2018** to **The Deputy Registrar (P&S), Indian Institute of Technology (Indian School of Mines), Dhanbad -826004.**
- 22) Your bid should reach our office preferably latest by **15.05.2018.**
- 23) IIT (ISM) reserves the right to accept and/or to reject any/all tenders without assigning any reason.

Deputy Registrar

[Handwritten Signature]
16/4/18



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Annexure I

Specification: Grid Tied Solar Inverter

1.	Solar Panel	<ul style="list-style-type: none"> 2KWp solar panel, polycrystalline: 8 numbers of 250Wp
2.	Grid Tied Solar MPPT Inverter	<ul style="list-style-type: none"> Single-phase, IGBT based two level inverter of 2 kW power rating. Sinusoidal PWM based digital control for IGBT switching. Isolated suitable gate drivers for the IGBTs. Inverter voltage waveform synchronization to the grid. Grid isolation through power transformer. Accessibility of all power terminals to observe their nature using DSO. Accessibility of all feedback signals (currents and voltages) so that they can be sampled by external controller for the purpose of developing independent control other than the existing controller. Mode of operation: MPPT mode (auto mode), Non-MPPT mode (manual variation of power) using push button.
3.	Control	<ul style="list-style-type: none"> Development of complete control system using advanced TMS320F280xx Sampling of analog signals using 12 bit ADC: solar voltage, solar current, output voltage, output current, heatsink temperature at very high speed. Provision of bypassing PWM signals produced by the existing processor and flexibility of providing external PWM signals..
4.	LCD Display	<ul style="list-style-type: none"> 4 line, 20 character LCD display. Display parameters: solar voltage, solar current, output voltage, output current, heatsink temperature, STATE, fault if any.
5.	Protection	<ul style="list-style-type: none"> Output short circuit, over voltage, over load and islanding.
6.	Installation	<ul style="list-style-type: none"> Complete Installation and demonstration.



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FORMAT FOR QUOTATION SUBMISSION

(In letterhead of the supplier with seal)

Date: _____

To:

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

Gross Total Cost (A+B): Rs. _____

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. _____ (Amount in figures) (Rupees _____ amount in words) within the period specified in the Invitation for Quotations.

We confirm that the normal commercial warranty/ guarantee of _____ months shall apply to the offered items and we also confirm 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 or on our behalf will engage in bribery.

Signature of Supplier

Name: _____

Address: _____

Contact No: _____