**Notice Inviting Quotation**

**Subject: NIT, Supply & Installation of Three-Phase Power Quality and Energy Analyzer**

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 Three-Phase Power Quality and Energy Analyzer****(Detailed specification given in Annexure-I)** | 01 No. | At the earliest/ Ex-stock |

**Tender Schedule:**

|  |  |
| --- | --- |
| **Particulars** | **Date & Time**  |
| Last date and time for submission of tenders | **29.05.2018 at 1:00 P.M.** |
| Date and time of opening of tenders | **29.05.2018 at 4:00 P.M.** |

**INSTRUCTIONS:**

1. Please attach relevant technical literature of the item.
2. Please mention warranty/guarantee period in your offer.
3. Please mention after sales service information in your offer.
4. Price should be in F.O.R. IIT(ISM), Dhanbad basis only.
5. **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.**
6. The rates should be quoted for each item separately.
7. Quotation,
	1. The contract shall be for the full quantity as described above.
	2. Corrections, if any, shall be made by crossing out, initialing, dating and re writing.
	3. All duties and other levies payable by the supplier under the contract shall be included in the unit price.
	4. Applicable taxes shall be quoted separately for all items.
	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.
	6. The Prices should be quoted in Indian Rupees only.
8. Each bidder shall submit only one quotation.
9. 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.
10. 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.
11. Your tender must be **valid for minimum 55 days** from the date of opening of tender.
12. **Delivery Period and Liquidated Damage**: The ordered materials/work complete in all respects are required to be delivered and installed within the period stipulated in the purchase order failing which liquidated damages of 1% per week for the delayed period subject to maximum of 5% of the total basic value of the order shall be deducted from the invoice of the supplier.
13. The stores are required to be delivered within **70 days**; late delivery may not be accepted.
14. Full details of stores offered should be given in the tender along with supporting & relevant literatures/ Technical Literature.
15. Sales Tax/ VAT Registration Number, GSTIN should be clearly mentioned in your offer, failing which your offer may not be considered.
16. The items offered should be of good quality confirming to BIS standards, wherever applicable.
17. Evaluation of Quotations,

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

1. are properly signed ; and
2. confirm to the terms and conditions, and specifications
3. The Quotations would be evaluated for all items together.
4. All supplied items are under warranty of 12 months from the date of successful acceptance of items
5. 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.

* 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.
	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.
1. ***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.
2. 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.
3. Tender must be submitted ***in sealed cover only superscribed with Enquiry No. TEQIP-500496-2017-18 and due date*** as is **29.05.2018** to T**he Deputy Registrar (P&S), Indian Institute of Technology (Indian School of Mines), Dhanbad -826004**.
4. Your bid should reach our office preferably latest by **29.05.2018.**
5. IIT (ISM) reserves the right to accept and/or to reject any/all tenders without assigning any reason.

**Deputy Registrar**

**Annexure I**

**Technical Specifications**

**Name of the Item:**  **Three-Phase Power Quality and Energy Analyzer**

|  |  |
| --- | --- |
| **VOLTAGE INPUTS** |  |
| Number of Inputs | 4 (3 phase + neutral) DC-coupled |
| Maximum Input Voltage | 1000 Vrms |
| Nominal Voltage Range | Selectable 1 V to 1000 V |
| Max. Peak Measurement Voltage | 6 kV (transient mode only) |
| Input Impedance | 4 MΩ//5 pF |
| Bandwidth | > 10 kHz, up to 100 kHz for transient mode |
| Scaling | 1:1, 10:1, 100:1, 1,000:1 10,000:1 and variable |
| **CURRENT INPUT** |  |
| Number of Inputs | 4 (3 phase + neutral) dc- or ac-coupled |
| Type | Clamp or current transformer with mV Output  |
| Range | 0.5 Arms to 6000 Arms  |
| Input Impedance | 1 MΩ |
| Bandwidth | > 10 kHz |
| Scaling | 1:1, 10:1, 100:1, 1,000:1 10,000:1 and variable |
| **SAMPLING SYSTEM** |  |
| Resolution | 16 bit Analog to Digital converter on 8 channels |
| Maximum Sampling Speed | 200 kS/s on each channel simultaneously |
| RMS Sampling | 5000 samples on 10/12 cycles according to IEC61000-4-30 |
| PLL Synchronization | 4096 samples on 10/12 cycles according to IEC61000-4-7 |
| Nominal Frequency | 434-II and 435-II: 50 Hz and 60 Hz 437-II: 50 Hz, 60 Hz and 400 Hz |
| **DISPLAY MODES** |  |
| Waveform Display |
| Phasor Diagram |
| Trend Graph |
| Bar Graph |

**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: \_\_\_\_\_\_\_\_\_\_\_\_\_\_