



**NATIONAL INSTITUTE OF TECHNOLOGY
ROURKELA – 769 008, ODISHA**

ADVERTISED /OPEN TENDER ENQUIRY

Department: Physics & Astronomy

Enquiry No: NITR/PW/PH/2018/12

Date: 23/03/2018

Important Dates

**Through
CPP Portal
(E-procurement)**

Event	Date	Time
Pre-bid Conference	NA	NA
Last Date of submission of quotation	13/04/2018	11:00 AM
Date of Opening of technical bid and financial bid	16/04/2018	11:00 AM

Dear Sir,

We intend to purchase the commodities specified below and invite quotations in accordance with the terms and conditions detailed in the bid document. If you are interested, kindly send your offer with prices and complete terms within the time mentioned above.

Please submit your bid as per Tender document.

For any technical Query contact to:

Head, Department of Physics & Astronomy
Attention.: Prof. Pitamber Mahanandia
NATIONAL INSTITUTE OF TECHNOLOGY
ROURKELA – 769008, Odisha
Phone: 0661 – 2462730
E-mail: pitam@nitrrkl.ac.in

Your sincerely

Name: Prof. Pitamber Mahanandia
PIC (UPS, Procuring)

Encl:

- 1) Schedule of requirement, specifications, dates etc.
- 2) Bid document containing detail terms and conditions.

1. Schedule of requirements

Sl. No.	Description of Goods/Service	Quantity
1	10 kv online ups system with batteries for 2 hours backup(As per the specification mentioned in Annexure I)	1

2. Format of Quotation (tick appropriate box)

It is a single bid; please give all technical specifications and price bid in one envelope.

Or

It is a two-part bid with separate techno-commercial and price bids.

3. The Bid should be submitted through <https://eprocure.gov.in/eprocure/app>

4. Quotations should be valid for a period of **60 days** from the closing date of the bid.

5. Some important dates:

I.	Pre-bid Conference:	Date: NA	Time:NA
ii.	Last date for receipt of quotation:	Date: 13/04/2018	Time: 11:00 AM
iii.	Opening of technical and financial bid:	Date: 16/04/2018	Time: 11:00 AM

6. **Warranty:** Warranty must be clearly mentioned along with the quotation

7. (a) If the price quoted in foreign value, the prize should be CIF/CIP up to Kolkata airport.

(b) GST: GST should be charge according to applicable rates (if applicable).

8. **Bid Security: Not Applicable**

9. **Performance Security:Not Applicable.**

10. Please go through the enclosed “bid document” carefully for other bidding instructions.

11. Please send your bid documents through e-procurement module <https://eprocure.gov.in/eprocure/app>

12. For technical details, you may contact

Prof.PitamberMahanandia

Physics & Astronomy

National Institute of Technology, Rourkela – 769 008

Phone: 0661 – 2462730

E-mail: pitam@nitrkl.ac.in



**NATIONAL INSTITUTE OF TECHNOLOGY
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BID DOCUMENT

1. Instructions to the bidders

- 1.1 Bids are invited on behalf of the Director, National Institute of Technology (NIT), Rourkela – 769008, Odisha, from the intending bidders for supply of the goods/stores/ equipment for the Institute as detailed in the enquiry letter.
- 1.2 The bidders should quote their offer/rates in **BOQ** in clear terms without ambiguity.
- 1.3 In case of any discrepancy between the rates in figures and that in words, the rate in words will be accepted as correct.
- 1.4 The last date for receipt of the bid is marked in the enquiry. In case the above date is declared a holiday for NIT, Rourkela, and the bids will be received up to the appointed time on the next working day.
- 1.5 The Bid should be uploaded in <https://eprocure.gov.in/eprocure/app>. Please follow the guideline of the site.
- 1.6 If a prospective bidder requires any clarification in regard to the bidding documents, he may make a request the concerned officer or faculty member at least 15 days before the deadline for receipt of bids.
- 1.7 Bids received after the deadline of receipt indicated in Para1.4 above shall not be taken in to consideration.
- 1.8 Each bidder shall submit only one bid. A bidder, who submits more than one bid, shall be disqualified and considered nonresponsive.
- 1.9 (In respect of high value plant, machinery etc. of a complex and technical nature). The bids may be submitted in two parts, viz., technical bid and financial bid.
- 1.10The bidder has to sign in full at all pages of the scanned part of the bidding document. No over-writing in those pages is acceptable.

2. Conditions of the bid

- 2.1 The rates quoted should preferably be net, inclusive of all taxes and duties, packing, forwarding, freight, Insurance and all other incidental charges. In case these charges are quoted extra in addition to the quoted rates, the amount thereof or Ad Valorem rate must be specified. Packing, forwarding, freight etc., when quotes separately are reimbursable at actual. If external agencies are employed, their receipts must be enclosed with the invoice.
- 2.2 Duties and Taxes are to be quoted separately. Ad Valorem rates thereof should be clearly indicated with reference to the relevant Acts and Rules.

It may be noted that the Institute is exempt from paying Excise Duty vide Government Notification No. 10/97 dated 01.03.1997 [Registration No.: TU/V/RGCD (227)/2011, dated 10.10.2011]. The Institute is not authorized to issue C or D forms. GST may be charged at applicable rates.

2.3 The goods are required to be delivered at the indenting Department of NIT, Rourkela, and must be reached within **30 days** from the date of placement of the supply of order under the risk and arrangement of the bidder and offers with delivery beyond the above period shall be treated as unresponsive. In case the delivery time is higher, the same must be mentioned clearly in the quotation.

2.4 The bid should remain valid for a period of **60 days** from the date of opening. In case your offer has a different validity period that should be clearly mentioned in the quotation.

2.5 Conditional discount, if any, offered by the bidder shall not be considered at the time of evaluation.

2.6 The goods offered should strictly conform to the specification and technical details mentioned in **Annexure-I**.

2.7 The Institute may like to conduct pre-dispatch inspection of goods, where applicable.

2.8 Period of guarantee/warranty, where applicable, should be specified in the bid.

2.9 If the successful bidder, on receipt of the supply order, fails to execute the order within the stipulated period, in full or part, it will be open to the Director, NIT Rourkela to recover liquidated damage from the firm at the rate of 1 percent of the value of undelivered goods per month or part thereof, subject to a maximum of 5 percent of the value of undelivered goods. Alternatively, it will also be opened to the Director, to arrange procurement of the required goods from any other source at the risk and expenses of the bidder.

2.10 The successful bidder may be required to execute a contract, where applicable.

2.11 The bidder has to furnish up to date GST and Income Tax Clearance Certificate along with the bid.

2.12 Payment (*100 percent*) will be made by Account Payee Cheque/Bank Draft, within 30 days from the date of receipt of the goods in good condition or receipt of the bill, commissioning of the equipment, where applicable, whichever is later/latest.

2.13 In case of Advance payment, the payment will be made on either in Foreign Demand Draft or Wire Transfer only. The proforma invoice copy need to be sent for advance payment.

2.14 In the event of any dispute arising out of the bid or from the resultant contract, the decision of the Director, NIT, Rourkela shall be final.

2.15 The bid document/resultant contract will be interpreted under Indian Laws.

Annexure-I

TECHNICAL SPECIFICATION FOR 10 KVA ONLINE UPS SYSTEM WITH BATTERIES FOR 2 HOURS POWER BACKUP	
Description	Specification
Capacity	10 KVA , 8 KW
Technology	True Online UPS with double conversion technology based on Digital Signal Processor (DSP), noiseless operation. Pure & steady Sine wave output. Full proof protection. Compact & rugged with wheels at base.
Features Desired	Handles high inrush currents inherent in loads without tripping or transfer to Bypass.
	High frequency Charger should ensures ripple free & controlled charging to enhance the life of batteries, Rectifier should be IGBT based to improve input power factor to 0.99, works on a wide input voltage range. Saves on electricity.
	Fully Automatic control for Battery low, Auto restart, Auto recovery from mains, Under voltage and Over voltage trip, Automatic return from bypass on recovery from overload requires no manual attention.
	Flexible synchronization facility for Forced synchronization or forced 50Hz. Operation possible over riding the specified synchronous range. Provision for locking transfer in Asynchronous mode.
	Ready status and Fault diagnostics with 200 event logging in LCD display.
	UPS should have cold start facility so that UPS can be switched ON directly from the battery
	Phase reversal Protection
Input Voltage	415V + 25% - 30% , Three Phase
Input frequency range	50 Hz +/- 10%
Input Power Factor	0.99
Output Voltage	230VAC \pm 1%, Single phase
Output Frequency	50Hz \pm 0.1% free run
Output Crest factor	3:1
Inverter Overload	110% for 60 min,125% for 10 min, 150% for 1 min
Output Transient response for 100% step load variation	Voltage dip/rise less than +/- 4% and recovery within 5 milliseconds
Output Overall AC to AC efficiency	> 86%
Output Harmonic distortion	< 2% on linear load &<3% on Nonlinear Load
Output isolation	Built-in Double Wound isolation transformer at output in the same cabinet .
Wave form	Pure sine wave
Load Power factor	0.8
UPS Failure	During failure in the UPS equipment the static switch automatically transfer the A.C. load directly to the AC line in less than ¼ cycles.
Maintenance by pass switch	Inside the UPS module used to connect the alternator supply to critical load while electrically isolating static switch and inverter for maintenance purpose.
Battery Type	Lead acid sealed maintenance free, VRLA Battery.
Battery back up	120 minutes for 10 KVA UPS at full load considering major derating factors
Battery details	12V, Batter IES .
Battery makes	SMF VRLA , Battery Make – Quanta /EXIDE/ROCKET
Battery Bank Voltage	Specify
Protections Desired	Input Over/ Under voltage
	Output Over/Under voltage
	Battery Under voltage
	Output overload / short circuit
	Over temperature, Manual bypass switch

Indications	LCD indication for Line ON, Battery ON, Mains abnormal, Load on battery, loads on bypass & inverter trip.
Communication Computer interface	Computer interface should have capability to communicate with the computers and network for early warning and fault status. Supports all major Operating Systems and environments and optional SNMP enabled port
Environment Audible noise	< 55dBA at 1 m distance from panel.
Environment Operating temperature	Between -3 to 50 deg c
Relative humidity	95% non-condensing
Environment Standards & protection class	IP-20
Credentials& Eligibility	<p>Manufacturer should be ISO 9001: 2000 certified</p> <p>Manufacturer should be ISO 14001 certified</p> <p>Manufacturer should be ISO 2007 certified</p> <p>Manufacture should have factory & R&D in India.</p> <p>Manufacturer is required to provide the full details of factory address in India.</p> <p>The tendered should be the OEM Or authorized Sales & Service provider. In case of service Provider he should be Authorized to participate in this Tender.</p>

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