



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

No. Mech-INS-280-18-19

Date: October 31, 2018

NOTICE INVITING TENDER

Subject: Supply & Installation of 20KVA online UPS with Wiring and pannel board.

Indian Institute of Technology (Indian School of Mines),Dhanbad invites quotations for the following to be supplied and delivered in Mech.Engg. Department.

S No	Full Description of items/ store	Qty	Delivery
1	Supply & Installation of 20KVA online UPS with Wiring and pannel board (Detailed Specification is given in Annexure – I)	1 Set	At the Earliest

Tender Schedule

Particulars	Date & Time
Tender cost	Rs. 590.00 (Rs. Five Hundred Nintey
Earnest money deposit	Rs. 12000.00(Rupees Twelve Thousand Only)
Last date and time for submission of tenders	15.11.2018 at 3:00 P.M.
Date and time of opening of tenders	15.11.2018 at 4:00 P.M.

1. You are requested to quote your lowest rates for the supply of above items in the attached format for Financial Bid (Annexure – II)
2. You may send your representative in the office of the undersigned at the scheduled date and time of opening of tender.
3. Tender should be submitted in sealed cover only super scribed with Enquiry No. and due date at the following address only:

The Asst. Registrar (P&S)
Indian Institute of Technology (Indian School of Mines),
Dhanbad – 826 004 Jharkhand



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Annexure – 1

Specifications for One number of 20 KVA online UPS with wiring and switch/panel board

The UPS with wiring and switch/panel board includes a new UPS system with wiring/panel board facility for installing New as well as old UPS facilities. Details are given as follows.

A. Specifications for online UPS System

Sl. No	PARAMETERS	
1	CAPACITY	20KVA / 16KW LOAD WITH 0.8 P.F
2	TECHNOLOGY	20KVA RACK MOUNTABLE DOUBLE CONVERSION TRUE ONLINE UPS WITH INSULATED GATE BI-POLAR TRANSISTOR (IGBT) TECHNOLOGY BASED RECTIFIER & INVERTER BOTH. UPS MUST BE HAVING DUAL MAINS INPUT CONNECTED TO TWO DIFFERENT POWER SOURCES & HOT SWAPPABLE BATTERIES FOR CONTINUOUS OPERATIONS WHEN THE BATTERIES ARE BEING REPLACED.
3	FORM FACTOR	6U
4	AC INPUT VOLTAGE RANGE/PHASE	160-280 V WITH 1:1, 3:1 & 3:3 OPTIONS IN SAME UPS
5	UPS EFFICIENCY AT FULL LOAD	MIN 93% OR MORE
6	INPUT FREQUENCY RANGE	40-70HZ (AUTO SENSING)
7	AC OUTPUT VOLTAGE	CONFIGURABLE FOR 220:230:240,400:415 V
8	OUTPUT FREQUENCY(SYNC TO MAINS)	50Hz \pm 3 Hz
9	WAVE FORM	PURE SINE WAVE (OUTPUT)
10	PROTECTION	INPUT OVER VOLTAGE PROTECTION, INPUT UNDER VOLTAGE PROTECTION, OVER VOLTAGE CUT OFF. SHORT CIRCUIT PROTECTION, OVER TEMPERATURE, LOW BATTERY & BATTERY OVER CHARGE PROTECTION SHOULD BE PROVIDED. BUILT IN BYPASS SWITCH MUST.
11	SURGE ENERGY RATING	MIN 450 JOULES
12	SOFTWARE	UPS MONITORING SOFTWARE WITH AUTO SHUTDOWN SHOULD BE GIVEN IN OEM CD
13	OVERLOAD CAPACITY	125% 1 Minute 30 Second > 150% to 175% 25 line cycles, > 175% 5 line cycle
14	HARMONIC DISTORTION	LESS THEN 3%



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15	CREST FACTOR	03:01
16	INDICATIONS & AUDIBLE ALARMS	MAINS ON, INVERTER ON, OVERLOAD, LOAD ON MAINS, LOAD ON BATTERY, BATTERY LOW ETC.
17	DIGITAL METERING	LCD DISPLAY FOR MEASUREMENT OF AC VOLTAGE, BATTERY VOLTAGE, BATTERY CURRENT, LOAD CURRENT, OUTPUT FREQUENCY ETC.
18	BATTERY FEATURES	BATTERY BACKUP OF 30 min USING 12V SMF OR FLOODED BATTERY COMPATIBILITY. MINIMUM VAH SHOULD BE 16128 VAH.
19	IN-BUILT CHARGER	INBUILT CHARGER WILL BE MIN 7AMPS OR GREATER. CHARGER AMPS TO BE MENTIONED. EXTERNAL CHARGER WILL NOT BE ACCEPTED.
20	BATTERY	WITH SUITABLE RACKS & LINK CABLES HAS TO BE SUPPLIED
21	ENVIRONMENTAL	OPERATING TEMPERATURE : 0-40C, NOISE LEVEL< 60DBA
22	OTHER DETAILS	IEC 320 STANDARDS CABLE TO BE USED
23	CERTIFICATION	PRODUCT MANUAL IS MUST. TO BE ATTACHED WITH TENDER DOCUMENTS. ISO 9001, ISO 14001, OHSAS 18001 CERTIFIED AND CERTIFICATE OF ROHS COMPLIANCE PRODUCT USER MANUAL TO BE SUBMITTED ALONG WITH TECHNICAL BID. THE SAME IS INHERENTLY REQUIRED TO EVALUATE TECHNICAL SPECIFICATION. THE USER MANUAL SHOULD BE EASILY ACCESSABLE IN OEM WEBSITE
24	AFTER SALES SUPPORT & MANUFACTURER'S	PAN INDIA BASED SERVICE CENTRE WITH 24X7X365 DAYS SUPPORT WITH DEDICATED TOLL FREE NUMBER
25	WARRANTY	MINIMUM 2 YEARS ONSITE WARRANTY ON UPS & 2 YEAR ON BATTERY , WITH NO CHARGES ON PARTS, LABOUR & SERVICE DURING THIS TENURE ON UPS REPAIR OR REPLACE EXCEPT PHYSICAL DAMGE OR DAMAGE DUE TO NATURAL CALAMITY UPS & BATTERY OEM CERTIFICATE TO BE ENCLOSED ALONG TENDER QUOTES



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B. Specifications for wiring and switch/ panel board

S. No.	Item (with specifications)	Quantity/number
1	8 mm ² Copper wire	1 number of coil
2	3Ø changeover switch (440 V, 63Amp)	2 number/pieces
3	1Ø changeover switch (220V, 63Amp)	1 number
4	TPN MCCB 100A circuit breaker	5 number
5	DP MCCB 32A circuit breaker	2 number
6	1 inch wire casing - 80 feet	1 number
7	8 mm ² Copper lug	100 number
8	1" casing holding clip	100 number
9	1.5" steel screw	200 number
10	1.5" PVC stud	200 number



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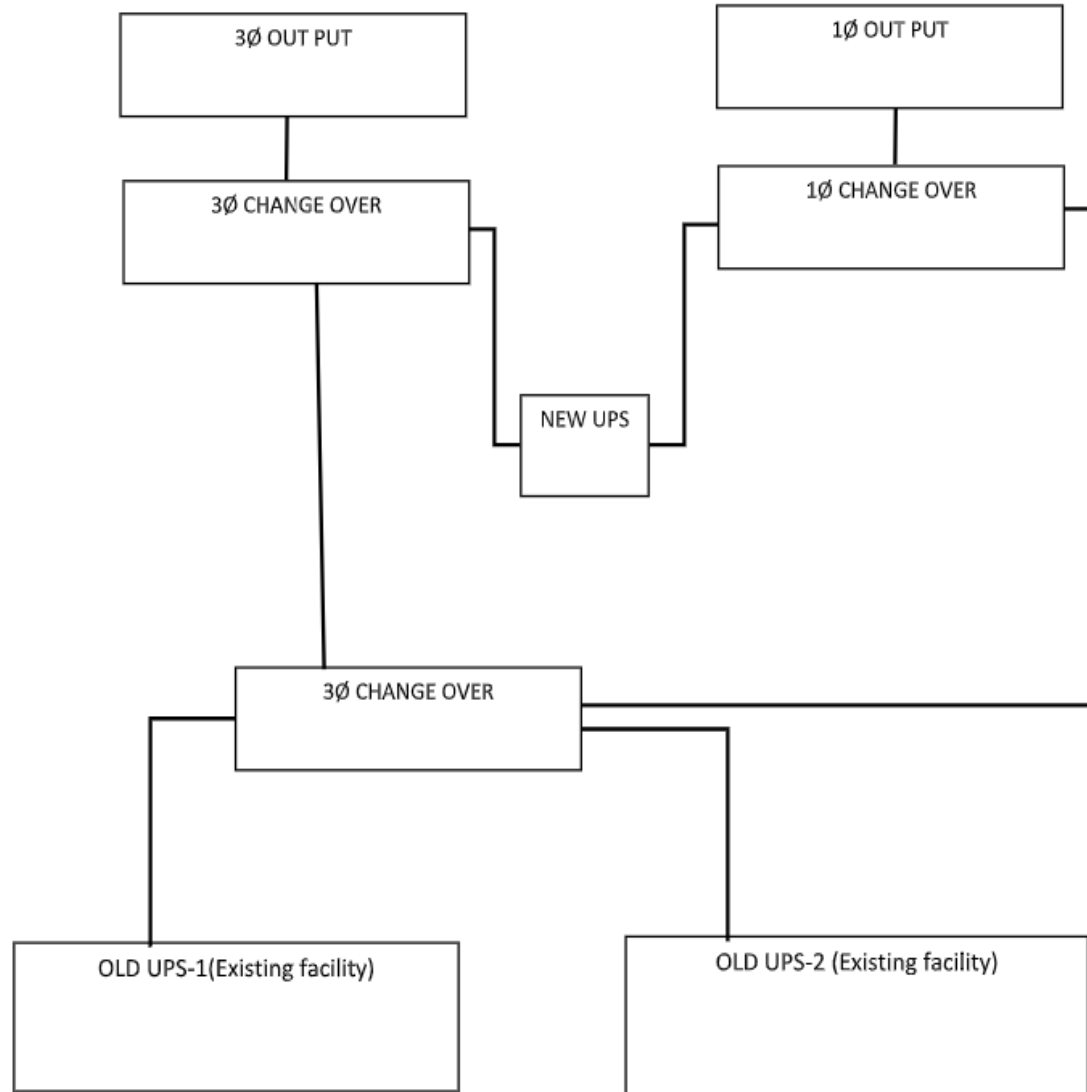
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C. Layout of switches/panel board and wiring

Note: Old UPS-1 and Old UPS-2 are the existing facility.



Single Line Circuit Diagram

Note:

- Specifying Make and Model of each components in the quotation is mandatory.
- Any statement regarding Make and Model containing "or equivalent" and "/" is not accepted.
- Under any condition, change of quoted make and model is not accepted.
- Supplier has to take all reasonability of Installing and commissioning of the item, irrespective of any masonry, electrical works etc. even which is not mentioned here.
- All electrical equipment should be with ISO certification.



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Terms & Conditions

- 1) The rates should be quoted for each item separately.
- 2) Conditional offer will not be accepted.
- 3) IIT (ISM) does not issue any Form 'C' or 'D' towards sales tax concessional rate. Hence, full rate of GST applicable should be quoted.
- 4) **Tender Cost:** Tender cost shall be paid through SB collect only, Tender cost is non-refundable and non-transferable. Bidder can pay the Tender Cost through the link: <https://www.onlinesbi.com/prelogin/icollecthome.htm?corpID=272342> the receipt of tender cost must be attached with the Tender documents, without receipt tender will be rejected.
- 5) **Bid Security or Earnest money deposit (EMD):** EMD should be submitted in form of A/c payee demand draft drawn in favor of Registrar, IIT (ISM) Dhanbad and payable at any other bank/branch located in Dhanbad. It should not be clubbed with tender cost EMD of unsuccessful bidder will be refunded only after placement of purchase order on the successful bidder.
- 6) **Educational discount**, if any, should be clearly mentioned.
- 7) Your tender must be valid for **minimum 90 days** from the date of opening of tender.
- 8) Please mention warranty/ guarantee in your offer clearly. Material/ equipment to be supplied must have minimum warranty/guarantee of **02 years** from the date of installation
- 9) **Performance Security/Performance Bank Guarantee:** Performance Security has to be submitted from the successful bidder. Performance Security should be 10% of the ordered value. Performance Security may be furnished in the form of Bank Guarantee/Demand Draft from any Nationalized Bank and. Performance security should remain valid for a period of two months beyond the date of completion of all contractual obligations of the successful bidder(s). No interest will be payable by IIT (ISM) Dhanbad on the Performance Security deposited. In case the contractor fails to provide satisfactory service, the Performance Security submitted by the bidder(s) is liable to be forfeited. An undertaking to this is to be submitted.
- 10) Each page in the bid document must be numbered properly and duly signed & sealed by the bidder on every page of the bid.
- 11) **The items/ materials shall be required to be delivered at Mechanical Engg. Department/ Section IIT (ISM) Dhanbad** at the risk and cost of the tenderer.
- 12) Unloading and installation shall be the complete responsibility of the supplier.
- 13) The stores are required to be preferably delivered within 30 days. Late delivery may not be accepted.
- 14) The items offered should be of good quality confirming to BIS standards, wherever applicable.
- 15) **Advance payment or part payment or part shipment is not admissible.** Payment shall normally be made within 4-6 weeks subject to receipt and acceptance & installation (as per Purchase Order Terms) of the ordered materials/items and submission of original bills/invoice, challan, installation report, warranty certificate etc, and PBG followed by it confirmation.
- 16) In the event date on which the tender is opened for acceptance is declared to be a holiday, the tenders shall be deemed to remain open for acceptance till the next working day. IIT(ISM) reserves right to extend the date & time of submission/opening of the quotations.
- 17) Please send your offer by Regd.Post/ Speed Post/ Courier along with Courier receipt. Tender/ quotation will be received during IIT (ISM) working hours only (i.e. Monday to Friday). **At any circumstances by hand delivery is not acceptable.** Late or delayed tenders shall be summarily rejected.
- 18) Any other information that you may like to obtain, you are free to contact IIT (ISM) before submission of tender.
- 19) IIT (ISM) reserves the right to accept and/or to reject any/ all tenders without assigning any reason.



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Assistant Registrar

Annexure - II

Format for Financial Bid

NIT No.: Mech-INS-280-18-19

Date:

Bidders Ref: No.

Date:

GSTIN No.:

Subject: Supply & Installation of 20KVA online UPS with Wiring and pannel board.

Sl. No.	Full Description of Items with (HSN Code/SAC Code)	Qty.	Rate	Amount
			Packing & Forwarding (if any)	
			Total	
			GST	
			Freight (if any)	
			Installation (if any)	
	Amount should be in figure as well as word		Grand Total	

Note:

- 1) All the details must be provided as per prescribed format only
- 2) Prices quoted by the bidders should include GST, HSN Code, SAC Code, duties, livies, and transportation cost and insurance costs etc. if any
- 3) All the rates must be quoted in Indian Rupees.