भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद
धनबाद, झारखण्ड, भारत, पिन-826004
(मानव संसाधन एवं विकास मंत्रालय, भारत सरकार के अधीन एक राष्ट्रीय महत्त्व का 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@ismdhanbad.ac.in || Website : www.iitism.ac.in

No. : Lib-500446-17-18 **Date: 08.02.2018**

NOTICE INVITING TENDER

Subject: Supply & Installation of Computer Server rack – 01 No.

Sir,

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

S No	Full Description of items/ store	Qty	Delivery
1	Supply & Installation of **Computer Server rack** (Detailed specification as per Annexure I – 03 to 05 pages)	01 No.	At the Earliest

Tender Schedule

Particulars	Date & Time
Last date and time for submission of tenders	**01.03.2018 at 1:00 P.M.**
Date and time of opening of tenders	**01.03.2018 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 superscribed with Enquiry No. and due date at the following address only:

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

7/2/18

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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) ***Educational discount,*** if any, should be clearly mentioned.
5) You are requested to submit your quotation strictly as per the specifications mentioned in the NIT.
6) Your tender must be valid for **minimum 90 days** from the date of opening of tender.
7) Please mention warranty/ guarantee in your offer clearly. Material/ equipment to be supplied must have minimum warranty/guarantee of **12 months.**
8) *Each page in the bid document must be numbered properly* and duly signed & sealed by the bidder on every page of the bid.
9) **The items/ materials shall be required to be delivered at Central Library, IIT (ISM) Dhanbad at the risk and cost of the tenderer.**
10) Unloading and installation shall be the complete responsibility of the supplier.
11) The stores are required to be delivered within 30 days. Late delivery may not be accepted.
12) The items offered should be of good quality confirming to BIS standards, wherever applicable.
13) ***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.
14) 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.
15) 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). *Late or delayed tenders shall be summarily rejected.*
16) Any other information that you may like to obtain, you are free to contact IIT (ISM) before submission of tender.
17) IIT (ISM) reserves the right to accept and/or to reject any/ all tenders without assigning any reason.

9/2/18
Assistant Registrar

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Server Rack Specification		Annexure-I
1	General Specification:	1.1. The Network rack frame should be robust and made of vertical heavy grade aluminum profiles according to IS 1060 H2 standard connected to CRCA steel end frames.
		1.2. The 19" mounting angles at front and rear should be fully recessible.
		1.3. The sides shall be covered with steel panels with IS 513 Gr D standard and front and rear section shall be provided with access door fully perforated.
		1.4. The rack should be provided with cable access roof and bottom cover for routing cables inside the cabinet.
		1.5. The rack should be able to carry load of 850 Kgs. Accessibility should make easy installation and maintenance tasks simple.
		1.6. Cabinet should be completely knock downable for ease of transport and handling.
2	Overall Dimensions:	2.1. The Network cabinet shall have the overall dimensions of 2068mm (H) x 800mm (W) x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm
3	19" Mounting angle:	3.1. The 19" mounting angles should be provided in pairs at front and rear as per the DIN 41494 standard.
		3.2. The rear 19" angles at front and rear should be fully recessible.
		3.3. The 19" mounting angles are provided with the reducing cable channels so that the cables can be routed in structured manner.
		3.4. Internal dimensions should be as per DIN 41494 / EIA 310-D. U marking should be done on the angle from bottom to top for easy management.
4	Front & rear doors and side panels:	4.1. Front and rear doors should be fully perforated (Hexagonal perforation) with minimum perforated area of 65% and cell opening ratio of 70% for better air flow into and outside the rack.
		4.2. Doors shall be hinged from inside and easy removable. The side panels should be easily detachable with slam lock. Side panels should have stiffener to provide stiffness.
		4.3. Both doors and side panels should be tool less installable.
5	Cable Management:	5.1. The 19" mounting angles are provided with the vertical cable channels so that the cables can be routed in structured manner. There should be cutouts in the vertical channel for routing the cable from front to rear.
		5.2. The top and bottom covers shall be provided with the cable entry cutouts and should be covered with gland plates.
6	Thermal Management:	6.1. The rack should be provided with superior ventilation with the hexagonal perforated door
		6.2 Four fans of 90 cfm 230V AC to be mounted on fan housing unit at the top.
7	Security:	7.1. The rack shall be provided with swing handle lock with common key for both front and rear door.
8	Powder coating:	8.1. Rack shall be powder coated with Nano ceramic pre-treatment process using a zirconium coat. The Powder coating process shall be ROHS compliant.
		8.2. Powder coating thickness shall be 80 to 100 microns.
		8.3. The colour of the powder coat shall be Black.
9	Hardware:	9.1. The rack should be provided with front panel captive hardware set in a pack of 20 which helps in directly mounting the 19" equipment's.
		9.2. All Floor Mounting accessories required to set up the rack. 4 Nos of Castor wheels, 2 with foot brakes and 2 without brakes
10	PDU:	10.1. The rack should have default provision for tool less mounting intelligent vertical PDUs at the rear side and should not affect the flow of air at the rear side.
		10.2 Metered Power Distribution Unit: Metered Rack Power Distribution Unit (PDU) distributes power to devices in the rack. It has a sensor that measures the current that it and its attached devices use. It can be monitored through Web, Telnet, SNMP, SSH, or InfraStruXure® Central interfaces. Outlets. The Rack PDU has thirty-six (36) IEC-320-C13 and six (6) IEC-320-C19 locking outlets Overcurrent protection. The Rack PDU has two (2) 16 A, 1-pole hydraulic-magnetic circuit breakers. Display interface. The liquid crystal display (LCD) _ and input buttons _ allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port _, and remote communication through the network port. The USB _ and CAN _ ports enable data transfer for future expansion options. The environmental sensor port _ allows

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		for monitoring of the temperature and humidity of the room or enclosure. Power cord. The 3.00-m (10-ft) power cord terminates with a 32 A, 3-pin IEC-309 connector. Tool less mounting. The Rack PDU has two tools less mounting pegs _ for 0 U mounting capabilities in a rack or enclosure.
11	**Grounding:**	11.1 All the rack components should be internally, electrically connected and to be provided with the single point extension for cabinet grounding. The rack should also consist of the earthing bar for equipment grounding

Sl No	Environment Monitoring	
A	**SUMMARY**	
1	Product Specifications	Environmental Monitoring Appliance to Prevent equipment failure from a full range of threatening environmental conditions
B	**Manageability**	
1	Enterprise management system compatible	Make device information available to preferred enterprise management system by forwarding SNMP traps (events) across SNMPv1, SNMPv2 and SNMPv3 using the PowerNet MIB
2	Scalability	The extensible platform can be scaled to meet changing business needs and requirements on demand. The management of additional devices is allowed as needed, while powerful facility and service management applications help to expand the product's management capabilities.
3	Adjustable threshold	Customize threshold definitions (multiple thresholds per sensor, scheduling, severity levels) to your requirements.
C	**Availability**	
1	**Browser accessible**	View the user interface with a browser. Provides quick access from anywhere on a secure network. Capable to Reboot equipment remotely
2	Fault notification	Real-time event notification minimizes response times to critical physical infrastructure situations. Enables IT Administrators to reduce mean time to repair, improve efficiency, and maximize uptime.
D	**Protection**	
1	Access monitoring	Detect access by unauthorized personnel via door switch.
2	Password Security	User-selectable password protection prevents unauthorized access, authorized against LDAP and Active Directory servers.
3	Encryption	Helps ensure effective access control and integrity for SSL browser and SSH sessions.
E	**Sensors**	
1	Number of wireless sensors supported	47
2	Number of wired sensors supported	42
3	Sensors supported	wireless : temperature, temp/humidity Wired : temperature, temp & humidity, spot fluid, door contact, dry contact, vibration, smoke, beacon
4	Sensor pods supported	Wired sensor pod 150, wireless sensor pod 180
5	Additional connections supported	Switched outlet, voltage output
F	**Electrical**	
1	Input Voltage, nominal	100-240 VAC; 50/60 Hz
2	Maximum total current draw for AC Line Inlet	10 A (defined by switched outlet load + 0.25 A)
3	Maximum output voltage for switched outlet	Defined by input voltage
4	Maximum output current for switched outlet	10 A (defined by switched outlet load)
5	Voltage for Voltage Output contacts	12 Vdc, 24 VAC
6	Current capacity of Relay Output contacts	1 A, 30 V AC/DC (rated for Class 2 circuits only)

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Sl No	ATS	
A	**SUMMARY**	
1	Product Specifications	RACK ATS, 20A/208V, 16A/230V, C20 IN, (8) C13 (1) C19 OUT
	Local Current Monitoring Display	The aggregate current draw per rack PDU is displayed on the unit via a digital display. The local digital display helps installers avoid overloaded circuits by providing a visible warning when the current draw is close to the maximum amperage draw of the strip.
B	**Manageability**	
1	Network Management Capabilities	Full-featured network management interfaces that provide standards-based management via Web, SNMP, and Telnet. Allows users to access, configure, and manage rack PDUs from remote locations to save valuable time. Associated with this feature is the ability to quickly and easily upgrade the firmware via network download to installed units for future product enhancements.
2	Color LCD display	Provides more robust and intuitive local control and manageability.
C	**Availability**	
1	Transfer time	Industry leading transfer time i.e. <10ms, to ensure seamless ride through in the event of a primary power source failure
2	Dual Input Power Sources	Supplies redundant AC power to connected equipment. Two AC lines power the unit and if the primary AC power fails, the unit will automatically switch to the alternative power source
D	**Protection**	
1	Overcurrent Protection	10 kAIC Overcurrent Protection to provide protection in the event of a significant overcurrent event.
E	**Output**	
1	Nominal Output Voltage	230V
2	Overload Protection	No
3	Maximum Total Current Draw	16
4	Output Connections	(1) IEC 320 C19 (Battery Backup) (8) IEC 320 C13 (Battery Backup)
F	**Input**	
1	Nominal Input Voltage	200V , 208V , 230V
2	Input frequency	47 - 63 Hz
3	Input Connections	IEC-320 C20
4	Maximum Input Current	20A
5	Maximum Line Current	20A
G	**Environmental**	
1	Operating Temperature	-5 - 45 °C
2	Operating Relative Humidity	5 - 95 %
3	Operating Elevation	0-3000 meters
4	Storage Temperature	-25 - 65 °C
5	Storage Relative Humidity	5 - 95%
6	Storage Elevation	0-15000 meter
H	**Conformance**	
1	Approvals	cUL Listed, CE, EN 55022 Class A, FCC Part 15 Class A, UL Listed
2	Standard warranty	2 years repair or replace
3	RoHS	Compliant

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9/2/18

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Annexure - II

Format for Commercial Bid

Our NIT No.: Lib-500446-2017-18

Date:

Bidders Ref: No.

Date:

GSTIN No.:

Sub: Supply & Installation of Computer Server rack – 01 no.

Sl. No.	Full Description of Items	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 all local taxes, VAT, service tax, duties, livies, transportation cost and insurance costs etc. if any
3) All the rates must be quoted in Indian Rupees.