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Warangal, Telangana State - 506 009

No. 727 /PC/KU/2017   Date: 26/07/2017

EXTENSION OF RATE CONTRACT SHORT NOTIFICATION

Sir,

It is to inform that the period for calling the tenders vide Lr.No.723/PC/KU/2017, Dated.15.07.2017 for supply, installation and commissioning of Desktop Computers, Laptops, Workstations, Servers and other computer peripherals of various reputed MNC brands is extended upto 08.08.2017.

This notice is issued only with a purpose to extended the bid submission period. Further, the terms and conditions mentioned at the tender notification Lr.No.723/PC/KU/2017, Dated.15.07.2017 are unaltered. The Tender Document and application can be downloaded from website www.kakatiya.ac.in. The filled in applications forms along with prescribed fee of Rs.5,000/- (Rupees Five thousand only) through a demand draft drawn in favour of the Registrar, Kakatiya University, Warangal from any nationalized bank payable at Warangal shall be submitted upto 08/08/2017 during the office hours between 11.00 AM to 4.00 PM at Office of the Registrar, Kakatiya University, Warangal. The filled in application forms along with the prices of the Desktop Computer, Laptops, Workstations, Servers and other computer peripherals duly sealed and superscripted on the cover as "Bid for Kakatiya University Rate Contract" on or before 08/08/2017 by 4.00 P.M., failing which the applications will be summarily rejected. The committee will open the sealed covers containing the Technical and Commercial offers on the same day at 4:30 P.M. For further details, visit our www.kakatiya.ac.in .

Sd/-
REGISTRAR

Kakatiya University

Warangal, Telangana State - 506 009

No. 723 /PC/KU/2017   Date: 15/07/2017

SHORT NOTIFICATION FOR RATE CONTRACT

Sealed tenders are invited from OEMs/Authorized Distributors/ Dealers/Resellers under KU Rate Contract System for supply, installation and commissioning of Desktop Computers, Laptops, Workstations, Servers and other computer peripherals of various reputed MNC brands. For further details, visit our website www.kakatiya.ac.in.

Sd/-
REGISTRAR

Kakatiya University

Warangal, Telangana State - 506 009

No. 723 /PC/KU/2017   Date: 15/07/2017

RATE CONTRACT SHORT NOTIFICATION

Sealed tenders are invited from OEMs/Authorized Distributors/ Dealers/Resellers under KU Rate Contract System for supply, installation and commissioning of Desktop Computers, Laptops, Workstations, Servers and other computer peripherals of various reputed MNC brands. The Tender Document and application can be downloaded from website www.kakatiya.ac.in from 15/07/2017. The filled in applications forms along with prescribed fee of Rs.5,000/- (Rupees Five thousand only) through a demand draft drawn in favour of the Registrar, Kakatiya University, Warangal from any nationalized bank payable at Warangal shall be submitted from 15/07/2017 to 28/07/2017 during the office hours between 11.00 AM to 4.00 PM at Office of the Registrar, Kakatiya University, Warangal. The filled in application forms along with the prices of the Desktop Computer, Laptops, Workstations, Servers and other computer peripherals duly sealed and superscripted on the cover as "Bid for Kakatiya University Rate Contract" on or before 28/07/2017 by 4.00 P.M., failing which the applications will be summarily rejected. The committee will open the sealed covers containing the Technical and Commercial offers on the same day at 4:30 P.M. For further details, visit our www.kakatiya.ac.in .

Sd/-
REGISTRAR

Kakatiya University

Warangal, Telangana State - 506 009

No. 723 /PC/KU/2017   Date: 15/07/2017

TENDER DOCUMENT FOR RATE CONTRACT

DATE OF ISSUE OF TENDER FORM WITH DOCUMENT: 15/07/2017

DATE & TIME FOR SUBMISSION OF TENDER DOCUMENT:
From 15/07/2017to 28/07/2017 up to 16.00 hrs

OPENING OF SEALED TENDERS CONTAINING THE TECHNICAL AND COMMERCIAL OFFERS: 28/07/2017 at 16:30 hrs.

Kakatiya University, Warangal invites bids from OEMs/authorised distributors/ dealers/ resellers under Kakatiya University Rate Contract System for supply, installation and commissioning of Desktop Computers, Laptops, Workstations, Servers and other computer peripherals of various reputed MNC brands like HP, DELL, LENOVO, ACER etc. from those who are in the similar profession for the last three years and at present providing the same service to Central/State Govt. Deptt., PSU"s, Autonomous Bodies, Large Industrial/Educational Campus/corporate Super Speciality Hospitals and capable of supply may send their bids both Technical and Commercial in sealed envelopes.

Complete Tender Document may be downloaded from the website of www.kakatiya.ac.in. The bidders shall enclose a Demand Draft for Rs. 5000.00 payable at Warangal and drawn in favour of "The Registrar Income Account, KU" with the Technical Bid.

The interested OEMs/authorised distributors/ dealers/ resellers may send their bid complete in all respect with other requisite documents to the "The Registrar, Kakatiya University, Warangal - 506009" duly superscripted "Bid forKakatiya University Rate Contract" before 1600 hrs on 28/07/2017. The bids received after this deadline shall not be entertained under any circumstances whatsoever. In case of postal delay this Institute will not be responsible. The committee will open the sealed covers containing the Technical and Commercial offers on the same day at 4:30 p.m.

The sealed envelopes are to be sent through registered/speed post addressed to "The Registrar, Kakatiya University, Warangal - 506 009". Bids sent by COURIER will not be entertained.

Any future clarification(s) and / or corrigendum(s) shall be communicated by the "The Registrar, Kakatiya University" only through the website www.kakatiya.ac.in and not in press. Hence, bidders are advised to always be in touch with our said website until the tender is finally opened.

Kakatiya University, Warangal reserves the right to amend or withdraw any of the terms and conditions contained in the Tender Document including quantity/amount of items to be supplied or to reject any or all tenders without giving any notice or assigning any reason.

The decision of the Registrar,Kakatiya University, Warangalin this regard shall be final.

GENERAL INSTRUCTIONS TO THE BIDDER

1. The tender is "Two Bid" document. The technical bid should contain all the relevant information and desired enclosures in the prescribed format along with Tender Fee. The financial bid should contain only commercial document. In case, any bidder encloses the financial bid within technical bid, the same shall be rejected summarily.

2. The tender Document can be downloaded from the Website of Kakatiya University i.e. www.kakatiya.ac.in. The Technical bid must accompany with the tender fee of Rs. 5000/- in form of Demand Draft in favour of The Registrar, Income Account, KU. The tender document fee is non-refundable, non-adjustable and non-transferable and is payable through a demand draft on any scheduled bank drawn in favour of the "The Registrar, Income Account, KU" payable at Kakatiya University Branch, Warangal.

3. The Tenders should be typewritten or handwritten but there should not be any overwriting or cutting. Correction, if any, shall be made by neatly crossing out, initialling, dating and rewriting. The name and signature of bidder" s authorized person should appear on each page of the application. All pages of the tender document shall be numbered and submitted as a package along with forwarding letter on agency" s letter head.

17. The offers must be in English. The prices/rates quoted should be indicated in words as well as in figures. In case of any discrepancy, lower amount/rates shall be considered as valid.

6. Bidders are requested to quote their prices on a firm & fixed basis for the entire period of the Contract. Bids of the firms received with prices quoted on variable basis shall be rejected without assigning any reasons and no communication in this regard shall be made.

7. Quotations qualified by such vague and indefinite expressions such as "subject to prior confirmation", "subject to immediate acceptance" etc. will be treated as vague offers and rejected accordingly. Any conditional tender shall be rejected summarily.

8. Bidders are requested to enclose a copy of their valid certificate of PAN No., TAN No, Sale Tax/VAT No./Service Tax No. or any other document as requested by the Institute with their tender.

9. Tenders received without Tender Fee by way of demand draft in favour of "The Registrar, Income Account, KU" will not be considered at all and shall be summarily rejected.

10. Late/delayed tenders received at the office of the Registrar, Kakatiya University due to any reason whatsoever will not be accepted under any circumstances. Telex/Tele fax/E-Mail of firms shall not be accepted and the University takes no responsibility for delay/loss or non-receipt of forms by Post/Courier.

11. At any time prior to date of submission of tender, Tender Inviting Authority may, for any reason, or decision, modify the terms & conditions of the tender document by a corrigendum displayed on the Website of Kakatiya University (www.kakatiya.ac.in). In order to provide reasonable time to take the amendment into account in preparing their bid, Tender Inviting Authority may or may not, at his discretion, extend the date and time for submission of tenders.

12. Tendering firms are at liberty to be present or authorize a representative to be present at the opening of the tender at the time and date as notified at Kakatiya University website. The name address and phone number of the representative authorized to attend the opening of the tender on behalf of a tendering firm should be indicated in the tender. The representative so deputed should also bring with him a letter of authority from the firm for having been authorized to be present at the time of opening of tender. Only one representative per firm shall be permitted to attend the opening of the tender. The name and address of permanent representative of the firm, if any, should also be indicated in the tender. The date of opening of the tender and any other related information will be communicated over website only. Hence, the representative of the tendering firm has to be instructed to be in touch with Kakatiya University website until the tender is finalised.

TECHNICAL CONDITIONS

1. Only OEMs (original equipment manufacturers) or exclusive authorized dealers/distributors/resellers are permitted to quote against the requirements. They must submit a certificate obtained from OEMs to the effect that they are appointed as authorized dealers/distributors/resellers.

2. The firms should have the requisite domain expertise with regard to supply, installation and after sales-service of the items.

3. The firm should have executed at least an annual turnover of ONE CRORE during three financial years from 2012-2013 to 2015-2016 in Government/Public sector organizations/Research Organizations/National Laboratories/Educations Institutions/Universities. (Documentary proof is to be attached). In details i.e Name & Address, Telephone, Fax, E-mail.

4. The firm should have been in existence for at least last three years i.e., w.e.f. 01.01.2013. (Documentary proof is to be attached). The firm should have a strong installed base in Hyderabad and within India.

5. The specifications of the desired items in Rate Contract are subject to change without notice.

BID RESPONSE FORMAT:

The bidder shall effectively communicate the solution and shall cover all the requirements as given in the Request For Proposal(RFP). The bidder shall use the following format to submit the response:

The documents of the Technical Bid shall be placed in sealed envelope clearly marking "Technical Bid. The financial Bid shall be placed in separate sealed envelope clearly marking it as "Financial Bid does not open with Technical Bid". The above two envelopes shall then be placed in third envelope, which shall also be appropriately sealed and marked as *"Bid for Rate Contract with KU"*. Rate Contract selection will be based on technical evaluation of the product and price.

1. The firm shall provide information about the availability of the firms' onsite engineer during the three-year warranty period.

2. The firm may also quote the AMC rates that would be applicable after the completion of the warranty period of three-years for Personal computers and other peripherals.

2. The firm shall enter into an agreement if the value of the order exceeds Rs.5.00 Lakhs as per the University rules in force.

3. After evaluating the technical bids and on acceptance, then only commercial bids will be opened.

4. The taxes/duties/discounts if any are to be distinctly and separately shown in the commercial form and under no circumstances, these components shall be added to the basic price and shown as single price. The component of taxes is to be shown in amounts distinctly and under no circumstances, these are included/clubbed with Basic Price.

5. The firm should quote prices for bulk quantities of Computers with basic configurations as per the specifications. The Prices should be clearly, in Indian Rupees. The rates shall be constant throughout the entire period of the contract, i.e. until the supply of items mentioned in Purchase Order.

6. Firms/Agencies having DGS&D rate contract for supply of the items may provide Xerox copy to the current rate contract duly attested.

7. The Offers must be valid for a minimum period of 90 days from bid finalization date. The offers once submitted cannot be modified under any circumstances.

8. No unsolicited correspondence shall be entertained.

9. The Kakatiya University has been granted the benefit of exemption from the payment of Central Excise Duty and Customs Duty by the Department of Scientific & Industrial research (DSIR):

a. Scientific and technical instruments, apparatus, equipment, including Computers.
b. Accessories and spare parts of goods specified in (a) above and Consumables.
c. Computer software, compact disk, CD ROM, Recordable Magnetic Tapes, Micro Films and Micro Chips, etc.,
d. Prototypes.

10. No EMD is required in Rate Contract System.

11. Payment Terms: 100% payment will be made after satisfactory installation, testing and commissioning.

12. Period of completion of Job: The supply should be completed within two weeks from the date of Purchase Order.

13. Liquidated Damages:

Timely completion of the job is the essence of the Contract. In case of failure to supply within the time specified in the Purchase Order, penalty @ 0.5% of the total value per week or part thereof shall be levied up to two weeks from the date stipulated in the purchase order, after this period the purchase order will stand cancelled and the firm will be forbidden to participate in further bids issued by Osmania University. Moreover, the University reserves

the right to disqualify the firms that do not honor their commitments with regard to delivery of the equipment against the orders placed by the University.

14. The firms those quoting for personal computers shall only forward copies of Annual Reports, auditors report, etc., for the last 3 Financial Years (2012-2013 to 2015-2016) in order to satisfy the financial capabilities.

15. The firms should obtain the requisite approvals for imports, etc. if any.

16. Acceptance/Rejection of offer:

a) Kakatiya University reserves the right to accept/reject any offer in full or in part or accept any offer other than the lowest without assigning any reasons thereof.

b) Kakatiya University reserves the right to select more than one brand in its final list for the benefit of Buyers choice.

17. Any offer containing incorrect statement and incomplete information will be summarily rejected.

18. The prices quoted shall include three years onsite warranty.

CONTENTS OF ENVELOPE-1 (TECHNICAL BID)

The Technical Rate Contract form shall contain documents such as:

• Covering letter and Application Form, Checklist of Submissions.

• Letter of Undertaking regarding acceptance of terms and conditions.

• Documents Supporting the Qualification/eligibility Criteria along with the Bidders Information format shall be submitted.

☐Documents of Technical Qualifications and Technical Competence of the tenderer supported by the certificates

☐Copies of purchase orders issued by organizations indicating the column of transaction

☐Proof of annual turnover

☐Copy of Registration Certificate

☐Copy of TSGST/CST/APGST/CST Registration Certificate

☐PAN allotted by Income Tax Department

☐Detailed profile of the firm, domain expertise and sage details and other supporting Literature substantiating their claim.

BIDDERS INFORMATION FORMAT

Sr.No.	Description of Details	Bidder's Response	Page No. of Technical Bid Submission
1	Name of the Firm /Company		
2	Year of establishment		
3	Type of Company Govt./PSU/Public Ltd/ Partnership/Proprietary) with necessary documents.		
4	Registration number & Date of registration(Self attested certificate copy to be enclosed)		
5	Address of registered office/Head Quarter with contact person" s name &designation, contact number, FAX no, E-Mail Address Address for Correspondence		
6	GSTand other Taxes numbers and related details		
8	Number of years" experience (Organization's) supply, installation (PO Copy &Completion certificates) should be mentioned here.		
9	Annual Turnover for FY 2015-16,2014-15, (In separate ROW/LINE)		
10	Audited balance sheets submitted for above mentioned financial years? YES/NO		
11	Copy of ISO 9000:2000 /ISO9000:2008.		
12	Total manpower in customer support with details of technical support/helpdesk(Toll free number Mail ID, Contact person name and mobile numbers)		
14	**Bidders Relation with OEM and components offered**		
15	**Type of Partnership (level of partnership-highest/Tier-1,reseller or Distributor**		
16	OEM Details , Address in India (Registered office)		
17	OEM Contact person, Designation with contact number , E-Mail ID, FAX No.		
18	Name, Designation & Contact details of Bidder's authorized representative for this tender		

QUALIFICATION/ELIGIBILITY CRITERIA FOR BIDDERS

DESCRIPTION OF PARAMETERS	COMPLIANCE (Yes/No)
Payment Terms to be accepted as per the RFP	
All terms and conditions in the RFP including Standard terms and conditions given to the RFP are acceptable to the seller	
The firm should be registered under The Indian Companies Act, 1956 and/or The Companies Bill 2008/2009.	
The firm must provide GST, Sales Tax, VAT and Service Tax registration certificates.	
The firm should have registered office in India, preferably local / Same State support office.	
The firm must provide copies of ITR for last three Financial Years and must have a minimum turnover of One Crore in last four Financial Years i.e. from 2012-2013 to 2016-2017.	
The firm must be ISO 9001:2008 certified.	
The firm must declare that there is no lawsuit pending against the proprietor/partners.	
The products quoted should not be declared End of Life at the time of delivery and OEM should support the products quoted for at least 5 years and a letter to this extent be attached as a proof	
The Bidders should be authorized by OEM to supply & install the equipment through OEM trained/certified engineers with holding at least 2 years of experience (at least). OEM should provide an Authorization Certificate to the Vendors/ Bidders for support, & the proof of the same should be attached with the tender.	
The bidder must quote for all the items mentioned in the tender. Part/incomplete quotes shall be summarily rejected	
Tender compliance should be certified by OEM" s of respective components along with all the supporting	
Bidder should have support centre / replacement support in the state of Telangana State or preferably in Warangal/Hyderabad.	
OEM"s participating with Multiple Bidders should submit 100% compliant BOM with all the bidders and the BOM proposed should be identical with all the Authorized bidders.	

12. The Commercial Rate Contract Form shall contain only price details (including payment Terms and conditions).

13. Arbitration:

All disputes or differences whatsoever arising between the parties relating to the contract shall be settled by arbitration in accordance with the rules of arbitration of Indian Council of Arbitration and the award made in pursuance thereof shall be binding on the parties. The venue of arbitration shall be Warangal. The Vice-Chancellor, Kakatiya University, will make the appointment of Arbitrator on behalf of the University.

ANNEXURE-1

Laptops-Specifications of Item 101 to 103

Item No.101	Specifications for Laptop-I
ITEM CODE	**Laptop Make & Model**
CPU	**Intel Core i3-7100U 7thGeneration with Intel HD Graphics 620 (2.4 GHz, 3 MB cache, 2 core); Intel® Pentium 4415U with Intel® HD Graphics or Higher**
Motherboard/ Chipset	Intel chipset integrated with processor
Cache	3 MB Intel Smart Cache or Higher
Memory	**4 GB DDR 4 RAM expandable to 16 GB or Higher**
HDD	1 TB SATA HDD or Higher
Graphic Card	Integrated Graphics
Audio Controller	Integrated stereo speakers; Headphone/microphone combo jack; Integrated microphone
Webcam	720p HD webcam or Higher
Display	(14") diagonal HD anti-glare LED-backlit (1366 x 768); 35.56 cm or higher
Keyboard	spill-resistant keyboard with backlit
Network Interface card	Integrated 10/100/1000 Ethernet
Wireless Connectivity	Integrated Wireless Intel 802.11a/b/g/n , Bluetooth
Battery	6-cell, Long Life 48 WHr Li-ion or Higher
Expansion Ports	2 USB 3.0;1 USB 2.0 (power port);1 HDMI;1 RJ-45;1 VGA;1 headphone/microphone combo; 1 AC power
Expansion slots	1 multi-format digital media reader (Supports SD, SDHC, SDXC.) or Higher
Power supply	45 W Smart AC adapte
Operating system	**DOS/ Linux / Windows**
Carry case	With carry case
Warranty	3 Years
Price in (Rs.)	
Deviation if any	

Item No.102	Specifications for Laptop-II
ITEM CODE	Laptop Make & Model
CPU	**Intel Core i5-7200U 7th Generation with Intel HD Graphics 620 (2.5 GHz, up to 3.1 GHz with Intel Turbo Boost Technology, 3 MB cache, 2 core) or Higher**
Motherboard/ Chipset	Intel chipset integrated with processor
Cache	3 MB Intel Smart Cache or Higher
Memory	**4 GB DDR 4 RAM expandable to 16 GB or Higher**
HDD	1 TB SATA HDD or Higher
Graphic Card	Integrated Graphics
Audio Controller	Integrated stereo speakers; Headphone/microphone combo jack; Integrated microphone
Webcam	720p HD webcam or Higher
Display	(14") diagonal HD anti-glare LED-backlit (1366 x 768); 35.56 cm or higher
Keyboard	spill-resistant keyboard with backlit
Network Interface card	Integrated 10/100/1000 Ethernet
Wireless Connectivity	Integrated Wireless Intel 802.11a/b/g/n , Bluetooth
Battery	6-cell, Long Life 48 WHr Li-ion or Higher
Expansion Ports	2 USB 3.0;1 USB 2.0 (power port);1 HDMI;1 RJ-45;1 VGA;1 headphone/microphone combo; 1 AC power
Expansion slots	1 multi-format digital media reader (Supports SD, SDHC, SDXC.) or Higher
Power supply	45 W Smart AC adapte
Operating system	**DOS/ Linux / Windows**
Carry case	With carry case
Warranty	3 Years
Price in (Rs.)	
Deviation if any	

Item No.103	Specifications for Laptop-III
ITEM CODE	Laptop Make & Model
CPU	**Intel Core i7-7500U 7th Generation with Intel HD Graphics 620 (2.7 GHz, up to 3.5 GHz with Intel Turbo Boost Technology, 4 MB cache, 2 core) or Higher**
Motherboard/ Chipset	Intel chipset integrated with processor
Cache	4 MB Intel Smart Cache or Higher
Memory	**4 GB DDR 4 RAM expandable to 16 GB or Higher**
HDD	1 TB SATA HDD or Higher
Graphic Card	Integrated Graphics
Audio Controller	Integrated stereo speakers; Headphone/microphone combo jack; Integrated microphone
Webcam	720p HD webcam or Higher
Display	(14") diagonal HD anti-glare LED-backlit (1366 x 768); 35.56 cm or higher
Keyboard	spill-resistant keyboard with backlit
Network Interface card	Integrated 10/100/1000 Ethernet
Wireless Connectivity	Integrated Wireless Intel 802.11a/b/g/n , Bluetooth
Battery	6-cell, Long Life 48 WHr Li-ion or Higher
Expansion Ports	2 USB 3.0;1 USB 2.0 (power port);1 HDMI;1 RJ-45;1 VGA;1 headphone/microphone combo; 1 AC power
Expansion slots	1 multi-format digital media reader (Supports SD, SDHC, SDXC.) or Higher
Power supply	45 W Smart AC adapte
Operating system	**DOS/ Linux / Windows**
Carry case	With carry case
Warranty	3 Years
Price in (Rs.)	
Deviation if any	

Business Desktops-Specifications of Item 104 to 106

Item No.104	Specifications for Desktop-I
ITEM CODE	Desktop Make & Model
CPU	Intel Core 6th Generation i3-6100 with Intel® HD Graphics 530 (3.7 GHz, 3 MB cache, 2 cores) or Higher
Motherboard/ Chipset	Intel® H110 chipset or Higher
Cache	3 MB Smart cache 2cores or Higher
Memory	4GB DDR4-2133 UDIMM (Transfer rates up to 2133 MT/s) Memory upgradeable up to 16 GB or Higher
HDD	1 TB 7200 RPM SATA 6.0Gb/s 3.5" HDD or Higher
CD ROM	Slim SuperMulti DVD Writer Drive
Graphic Card	Intel Integrated HD Graphics
Audio	HD audio with Realtek ALC221
Monitor	18.5-inch LED Backlit Monitor or Higher
Keyboard	USB Std. Keyboard
Network Interface card	Integrated 10/100/1000M Gigabit Ethernet Controller and it will support Supports Wake-on-LAN (WOL)
Speakers	Integrated Spekers
Mouse	USB Optical Mouse
Drive Bays	(2) 3.5" internal storage drive bays, 5.25" External Drive Optical Disc Drive Bay, or Higher
I/O Ports	Rear I/O Ports:-(2) USB 3.0 ports,(4) USB 2.0 ports,(1) RJ45 network connection,(1) Audio Line out,(1) Audio Line in,(1) VGA,(1) DVI-D Front: 2 USB 2.0; 1 microphone/headphone combo jack
Expansion slots	One (1) PCIe x 16 (3.0) ; One (1) PCIe x 1 (2.0) or Higher
Cabinet	Micro tower
Power supply	180 W standard efficiency, active PFC or Higher
Operating system	**DOS/ Linux / Windows**
Industry standard compliance	FOR OEM: ISO 9001 : 2000, Windows, Linux, US Energy star, EPEAT , FCC,UL, ROHS
Security	TPM 1.2 Security Chip, USB enable/disable, Power-on password, Administrator Password, Setup password, and chassis lock slot support
Warranty	3 years onsite warranty
Price in (Rs.)	
Deviation if any	

Item No.105	Specifications for Desktop-II
ITEM CODE	Desktop Make & Model
CPU	Intel Core 6th Generation i5-6500 with Intel® HD Graphics 530 (3.2 GHz, 6 MB cache, 4 cores) or Higher
Motherboard/ Chipset	Intel® H110 chipset or Higher
Cache	6 MB Smart cache 4cores or Higher
Memory	4GB DDR4-2133 UDIMM (Transfer rates up to 2133 MT/s) Memory upgradeable up to 16 GB or Higher
HDD	1 TB 7200 RPM SATA 6.0Gb/s 3.5" HDD or Higher
CD ROM	Slim SuperMulti DVD Writer Drive
Graphic Card	Intel Integrated HD Graphics
Audio	HD audio with Realtek ALC221
Monitor	18.5-inch LED Backlit Monitor or Higher
Keyboard	USB Std. Keyboard
Network Interface card	Integrated 10/100/1000M Gigabit Ethernet Controller and it will support Supports Wake-on-LAN (WOL)
Speakers	Integrated Spekers
Mouse	USB Optical Mouse
Drive Bays	(2) 3.5" internal storage drive bays, 5.25" External Drive Optical Disc Drive Bay, or Higher
I/O Ports	Rear I/O Ports:-(2) USB 3.0 ports,(4) USB 2.0 ports,(1) RJ45 network connection,(1) Audio Line out,(1) Audio Line in,(1) VGA,(1) DVI-D Front: 2 USB 2.0; 1 microphone/headphone combo jack
Expansion slots	One (1) PCIe x 16 (3.0) ; One (1) PCIe x 1 (2.0) or Higher
Cabinet	Micro tower
Power supply	180 W standard efficiency, active PFC or Higher
Operating system	**DOS/ Linux / Windows**
Industry standard compliance	FOR OEM: ISO 9001 : 2000, Windows, Linux, US Energy star, EPEAT , FCC,UL, ROHS
Security	TPM 1.2 Security Chip, USB enable/disable, Power-on password, Administrator Password, Setup password, and chassis lock slot support
Warranty	3 years onsite warranty
Price in (Rs.)	
Deviation if any	

Item No.106	Specifications for Desktop-III
ITEM CODE	**Desktop Make & Model**
CPU	**Intel Core 6ᵗʰGeneration i7-6700 with Intel® HD Graphics 530 (3.4 GHz, 8 MB cache, 4 cores) or Higher**
Motherboard/ Chipset	Intel® Q170 chipset or Higher
Cache	8 MB Smart cache 4cores or Higher
Memory	**4 GB DDR4-2133 UDIMM (Transfer rates up to 2133 MT/s) Memory upgradeable up to 32 GB or Higher**
HDD	1 TB 7200 RPM SATA 6.0Gb/s 3.5" HDD or Higher
CD ROM	Slim SuperMulti DVD Writer Drive
Graphic Card	**2 GB NVIDIA GRAPHICS CARD**
Audio	HD audio with Realtek ALC221
Monitor	18.5-inch LED Backlit Monitor or Higher
Keyboard	USB Std. Keyboard
Network Interface card	Integrated 10/100/1000M Gigabit Ethernet Controller and it will support Supports Wake-on-LAN (WOL)
Speakers	Integrated Spekers
Mouse	USB Optical Mouse
Drive Bays	(2) 3.5" internal storage drive bays, 5.25" External Drive Optical Disc Drive Bay, or Higher
I/O Ports	Rear I/O Ports:-(2) USB 3.0 ports,(4) USB 2.0 ports,(1) RJ45 network connection,(1) Audio Line out,(1) Audio Line in,(1) VGA,(1) DVI-D Front: 2 USB 2.0; 1 microphone/headphone combo jack
Expansion slots	One (1) PCIe x 16 (3.0) ; One (1) PCIe x 1 (2.0) or Higher
Cabinet	Micro tower
Power supply	180 W standard efficiency, active PFC or Higher
Operating system	**DOS/ Linux / Windows**
Industry standard compliance	FOR OEM: ISO 9001 : 2000, Windows, Linux, US Energy star, EPEAT , FCC,UL, ROHS
Security	TPM 1.2 Security Chip, USB enable/disable, Power-on password, Administrator Password, Setup password, and chassis lock slot support
Warranty	3 years onsite warranty
Price in (Rs.)	
Deviation if any	

ANNEXURE-3

Workstations-Specifications of Item 107

Item No.107	Specifications for Workstation-I
ITEM CODE	**Workstation Make & Model**
CPU	Intel® Xeon® processor E3-1225v5, Quad-Core, 8 MB cache, 3.3 GHz, up to 3.6 GHz with Intel TurboBoost Technology or Higher
Motherboard/ Chipset	Intel® C236 chipset or Higher
Cache	8 MB cache Quad-Core
Memory	16GB (2x8GB) DDR4-2133 ECC Unbuffered RAM 1-CPU or higher or equivalent Memory upgradeable upto 64GB
HDD	1TB SATA 7200 rpm 6Gb/s 3.5" HDD
CD ROM	16X DVD+/-RW SuperMulti SATA Drive
Graphic Card	4GB NVIDIA Quadro K1200 1st GFX same OEM Make or Higher
Audio Controller	Integrated Realtek HD ALC221 Audio
Monitor	"20" LED Colour Monitor or Higher
Keyboard	USB Std. Keyboard
Network Interface card	Integrated 10/100/1000M Gigabit Ethernet Controller and it will support Supports Wake-on-LAN (WOL) or Higher
Speakers	Integrated
Mouse	USB MOUSE
Drive Bays	2 internal 3.5" Drive Bays,1 external 9.5" Drive Bay or Higher
I/O Ports	Front: 2 USB 3.0; 1 USB 2.0; 1 USB 2.0 charging port; 1 headphone; 1 microphone Back: 6 USB 3.0; 1 serial; 2 PS/2; 1 RJ-45; 1 audio line in; 1 audio line out. Internal: 2 USB 2.0 ; 1 USB 3.0 and 2 USB 2.0 internal ports available as 2 separate 2x6(3.0x1, 2.0x1) and1x6(2.0x1) headers supporting one Internal USB 2.0 Port Kit and one USB 3.0 Media Card Reader or Higher
Expansion slots	1 PCIe Gen3 x16; 1 PCIe Gen3 x4 (x16 connector); 1 PCIe Gen3 x1 (x4 connector); 1 PCIe Gen3 x1 or Higher
DiskControllers	On board
Power supply	280 W 85% efficient, wide-ranging, active PFC or Higher
Operating system	**DOS/ Linux / Windows**
Industry standard compliance	US Energy star certification , EPEAT Gold
Warranty	3 years
Price in (Rs.)	
Deviation if any	

Servers-Specifications of Item 108 to 112

Item No.108	Specifications for Server-I
ITEM CODE	TOWER SERVER Make & Model
CPU 1	Intel® Xeon® E5-2620v4 (2.1GHz/8-core/20MB/85W) Processor Kit or Higher
CPU 2	Intel® Xeon® E5-2620v4 (2.1GHz/8-core/20MB/85W) Processor Kit or Higher
Motherboard/ Chipset	Intel® C610 Series Chipset
Cache	20MB (1 x 20MB) Cache
Memory	32 GB DDR4 RAM scalable to at least upto 768GB, using DDR4 Load Reduced DIMM (LRDIMM) memorymodules
HDD	4x 600GB 6 G SAS 10K rpm SFF (2.5-inch) Enterprise Hard Drive (The server should be supplied with 8 drive bays and should be expandable upto 16 Drive bays with optional drive cage. The drive carrier should have intutive icon based display along with "DO NOT REMOVE" caution indicator that gets activated automatically in order toavioddataloss/downtime due to wrong drive removal.) or equivalent
CD ROM	DVD Writer
Monitor	''20'' LED Colour Monitor or Higher
Keyboard	USB Std. Keyboard
Mouse	USB Optical Mouse
Network Interface card	Server should support networking cards with below features: 1. 1Gb 4-port network adaptor supporting advanced features such as Large Send offload capability, TCP checksum and segmentation, VLAN tagging, MSI-X, Jumbo frames, IEEE 1588, and virtualization features such as VMware NetQueue and Microsoft VMQ.
Drive Bays	The server should be supplied with 8 drive bays and should be expandable upto 16 Drive bays with optional drivecage. The drive carrier should have intutive icon based display along with "DO NOT REMOVE" caution indicator that gets activated automatically in order to avioddataloss/downtime due to wrong drive removal or equivalent.
I/O Ports	Serial – 1 ,Micro SD slot – 1 ,USB 2.0 Ports 5 (2 front, 2 rear, 1 internal),USB 3.0 3 (2 rear, 1 internal)
Expansion slots	Nine PCI-Express 3.0 slots, atleast three x16 slots
Disk Controllers	PCIe 3.0 based 12Gb/s SAS Raid Controller with RAID 0/1/1+0/5/50/60/1 Advanced DataMirroring/10 Advanced Data Mirroring with 2GB battery backed write cache (onboard or in a PCI Express slot)
Cabinet	Tower (5U)
Power supply	Redundant platinum Hot Pluggable Power Supplies
OS Support	Microsoft Windows Server,CanonicalUbuntu,Red Hat Enterprise Linux (RHEL),SUSE Linux Enterprise Server (SLES),VMware,CitrixXenServer
Industry standard compliance	ACPI 2.0b Compliant,PCIe 3.0 Compliant,PXE Support WOL Support,NovellCertified,IPMI 2.0, SMASH CLP, DCMI 1.0 compliant, Microsoft® Logo certifications,USB 3.0 Support SMBIOS 2.7.1,ASHRAE A3/A4,Energy Staror equivalent
Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response.
Price in (Rs	
Deviation if any	

Item No.109	Specifications for Server-II
ITEM CODE	RACK SERVER Entry Level Make & Model
Processor	Intel Xeon E3-1220v5 (3.0GHz/4-core/8MB/80W) Processor or Higher
CPU L3 CACHE Memory	8 MB (1 x 8 MB) L3 cache or Higher
Motherboard	Intel® C232 Series Chipset or Higher
Memory	8GB (1x8GB UDIMMs, 2133 MHz) or Higher
HDD Bays	2 LFF HDD Bays
Hard disk drive	2 x 1TB 6G SATA 7.2K rpm SFF (2.5-inch) Hard Drive
Monitor	''20'' LED Colour Monitor or Higher
Keyboard	USB Std. Keyboard
Mouse	USB Std. Mouse
Controller	Integrated RAID controller supporting RAID 0,1 & 5
Networking features	Embedded 1Gb 2-port 332i network Adapter
Interfaces	Video – 1,4 USB ports (standard)
Bus Slots	Minimum of 2 No's of PCIe 3.0 slots
Power Supply	Minimum 280W Power Supply
Graphics	Integrated video standard supporting1280 x 1024 (32 bpp),1920 x 1200 (16 bpp)
Industry Standard Compliance	UEFI (Unified Extensible Firmware Interface Forum),PCIe 3.0Compliant, PXE Support,WOLSupport,Microsoft® Logo certifications,USB 3.0Support,ASHRAE A3 or equivalent
Security	Power-on password,Serial interface control,Administrator's password, TPM 1.2,TPM 2.0,APCI 2.0b,UEFI
Operating Systems and Virtualization Software Support	Microsoft Windows ServerRed Hat Enterprise Linux (RHEL)SUSE Linux Enterprise Server (SLES) VMware
Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support.
Price in (Rs.)	
Deviation if any	

Item No.110	Specifications for Server-III
ITEM CODE	RACK SERVER Mid Range Make & Model
CPU 1	Intel® Xeon® E5-2620v4 (2.1GHz/8-core/20MB/85W) Processor Kit or Higher
CPU 2	Intel® Xeon® E5-2620v4 (2.1GHz/8-core/20MB/85W) Processor Kit or Higher
CPU L3 CACHE Memory	20 MB (1 x 20 MB) L3 cache
Motherboard	Intel® C610 Series Chipset
Memory	64 GB DDR4 RAM scalable to at least upto1.5 TB , using DDR4 Load Reduced DIMM (LRDIMM) memory modules with 24 DIMM slots or equivalent
Memory Protection	Advanced ECC with multi-bit error protection and memory online spare mode
HDD Bays	Up to 8 SFF, HDD/SSD expandable upto 16 drives with optional drive cage, The drive carrier should have intutive icon based display along with "DO NOT REMOVE" caution indicator that gets activated automatically in order to avoid data loss/downtime due to wrong drive removal or equivalent
Optical drive Bay	Optical drive DVD-RW
Hard disk drive	5 x 600 GB 6 G SAS 10K rpm SFF (2.5-inch) Hot pluggable Hard Drive or Higher
Monitor	''20'' LED Colour Monitor or Higher
Keyboard	USB Std. Keyboard
Mouse	USB Std. Mouse
Controller	PCIe 3.0 based 12Gb/s SAS Raid Controller with RAID 0/1/1+0/5/50/6/60/ with 2GB battery backed write cache (onboard or in a PCI Express slot) or equivalent
Networking features	Server should support networking cards with below features:1. 1Gb 4-port network adaptor supporting advanced features such as Large Send offload capability, TCP checksum and segmentation, VLAN tagging, MSI-X, Jumbo frames, IEEE 1588, and virtualization features such as VMware NetQueue and Microsoft VMQ.
Interfaces	Serial – 1 ,Micro SD slot – 1 ,USB 3.0 support With Up to 5 total: 1 front, 2 rear, 2 internal (secure)
Bus Slots	Minimum of Three full length full height PCIe 3.0 Slots X16 and Two full length full height PCIe 3.0 Slots X 8 slots which should support two double wide GPU cards
Power Supply	Minimum 94% Hot pluggable Redundant Power Supplies which should support two no's of compute cards
Fans	Redundant hot-plug system fans
Graphics	Integrated video with 16MB of Video RAM
Industry Standard Compliance	ACPI 2.0b Compliant,PCIe 3.0 Compliant,PXESupport,WOL Support ,Microsoft® Logo certifications,USB 3.0 AND 2.0 Support,EnergyStar,ASHRAE A3/A4 and UEFI or equivalent
Embedded system management	Should support monitoring ongoing management, service alerting, reporting and remotemanagement with embedded Gigabit out of band management portServer should support configuring and booting securely with industry standard Unified Extensible Firmware. System management should support provisioning servers by discovering and deploying 1 to few servers with Intelligent Provisioning ,System should support embedded remote support to transmit hardware events directly to OEM or an authorized partner for automated phone home support
Security	Power-on password ,Serial interface controlAdministrator's password ,UEFI ,Should support upto 12 customizable user accounts on out of band management port and SSL encryption ,Should also supports directory services integration
Operating Systems and Virtualization Software Support	Microsoft Windows Server ,Red Hat Enterprise Linux (RHEL) ,SUSE Linux Enterprise Server (SLES) ,Oracle Solaris ,VMware ,Citrix Xen Server
Chassis	2 U Rack Mountable
Provisioning	Essential tools, drivers, agents to setup, deploy and maintain the server should be embedded inside the server. There should be a built -in Update manager that can update firmware of system by connecting online.
Remote Management	1. System remote management should support browser based graphical remote console along with Virtual Power button, remote boot using USB/CD/DVD Drive. It should be capable of offering upgrade of software and patches from a remote client using Media/image/folder; It should support server power capping and historical reporting and should have support for multifactor authentication. 2. Server should have dedicated 1Gbps remote managementport. 3. Server should support agentless management using the out-of-band remote managementport. 4. The server should support monitoring and recording changes in the server hardware and system configuration. It assists in diagnosing problems and delivering rapid resolution when system failuresoccur. 5. Remote console sharing upto 6 users simultaneously during pre-OS and OS runtime operation, Console replay - Console Replay captures and stores for replay the console video during a server's last major fault or boot sequence. Microsoft Terminal Services Integration, 128 bit SSL encryption and Secure Shell Version 2 support.Should provide support for AES and 3DES on browser.Should provide remote firmware update functionality.Should provide support for Java free graphical remoteconsole.
Server Management	The Systems Management software should provide Role-based security
	Should help provide proactive notification of actual or impending component failure alerts on critical components like CPU, Memory and HDD. Should support automatic event handling that allows configuring policies to notify failures via e-mail, pager, or SMS gateway or automatic execution of scripts.

	Should provide an online portal that can be accesible from anywhere. The portal should provide one stop, online access to the product, support information and provide information to track warranties, support contrats and status. The Portal should also provide a Personaliseddaskboard to monitor device heath, hardware events, contract and warranty status. Should provide a visual status of individual devices and device groups. The Portal should be accessible on premise (at customer location - console based) or off premise (using internet).
	Should support scheduled execution of OS commands, batch files, scripts, and command line apps on remote nodes
	Should be able to perform comprehensive system data collection and enable users to quickly produce detailed inventory reports for managed devices. Should support the reports to be saved in HTML, CSV or XML format.
	Should help to proactively identify out-of-date BIOS, drivers, and Server Management agents and enable the remote update of system software/firmware components.
	The Server Management Software should be of the same brand as of the server supplier.
	Infra Platform /Infra Software to support a variety of different hypervisors, such as VMware, Microsoft Hyper-V, Red Hat KVM.
	Solution available to Deploy a fast and easy installation via software appliance delivery mode. With its own OS and Database to provide infra and lifecycle management
Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support.
Price in (Rs.)	
Deviation if any	

Item No.111	Specifications for Server-IV
ITEM CODE	RACK SERVER Mid-Range Make & Model
CPU 1	Intel® Xeon® E5-2650v4 (2.2GHz/12-core/30MB/105W) Processor Kit or Higher
CPU 2	Intel® Xeon® E5-2650v4 (2.2GHz/12-core/30MB/105W) Processor Kit or Higher
CPU L3 CACHE Memory	30 MB (1 x 30 MB) L3 cache
Motherboard	Intel® C610 Series Chipset
Memory	128 GB DDR4 RAM scalable to at least upto1.5 TB , using DDR4 Load Reduced DIMM (LRDIMM) memory modules with 24 DIMM slots or equivalent
Memory Protection	Advanced ECC with multi-bit error protection and memory online spare mode
HDD Bays	Up to 8 SFF, HDD/SSD expandable upto 16 drives with optional drive cage, The drive carrier should have intutive icon based display along with "DO NOT REMOVE" caution indicator that gets activated automatically in order to avoid data loss/downtime due to wrong drive removal or equivalent
Optical drive Bay	Optical drive DVD-RW
Hard disk drive	5 x 600 GB 6 G SAS 10K rpm SFF (2.5-inch) Hot pluggable Hard Drive or Higher
Monitor	''20'' LED Colour Monitor or Higher
Keyboard	USB Std. Keyboard
Mouse	USB Std. Mouse
Controller	PCIe 3.0 based 12Gb/s SAS Raid Controller with RAID 0/1/1+0/5/50/6/60/ with 2GB battery backed write cache (onboard or in a PCI Express slot) or equivalent
Networking features	Server should support networking cards with below features:1. 1Gb 4-port network adaptor supporting advanced features such as Large Send offload capability, TCP checksum and segmentation, VLAN tagging, MSI-X, Jumbo frames, IEEE 1588, and virtualization features such as VMware NetQueue and Microsoft VMQ.
Interfaces	Serial – 1 ,Micro SD slot – 1 ,USB 3.0 support With Up to 5 total: 1 front, 2 rear, 2 internal (secure)
Bus Slots	Minimum of Three full length full height PCIe 3.0 Slots X16 and Two full length full height PCIe 3.0 Slots X 8 slots which should support two double wide GPU cards
Power Supply	Minimum 94% Hot pluggable Redundant Power Supplies which should support two no's of compute cards
Fans	Redundant hot-plug system fans
Graphics	Integrated video with 16MB of Video RAM
Industry Standard Compliance	ACPI 2.0b Compliant,PCIe 3.0 Compliant,PXESupport,WOL Support ,Microsoft® Logo certifications,USB 3.0 AND 2.0 Support,EnergyStar,ASHRAE A3/A4 and UEFI or equivalent
Embedded system management	Should support monitoring ongoing management, service alerting, reporting and remote management with embedded Gigabit out of band management port Server should support configuring and booting securely with industry standard Unified Extensible Firmware. System management should support provisioning servers by discovering and deploying 1 to few servers with Intelligent Provisioning ,System should support embedded remote support to transmit hardware events directly to OEM or an authorized partner for automated phone home support

Security	Power-on password ,Serial interface control Administrator's password ,UEFI ,Should support upto 12 customizable user accounts on out of band management port and SSL encryption ,Should also supports directory services integration
Operating Systems and Virtualization Software Support	Microsoft Windows Server ,Red Hat Enterprise Linux (RHEL) ,SUSE Linux Enterprise Server (SLES) ,Oracle Solaris ,VMware ,Citrix Xen Server
Chassis	2 U Rack Mountable
Provisioning	Essential tools, drivers, agents to setup, deploy and maintain the server should be embedded inside the server. There should be a built -in Update manager that can update firmware of system by connecting online.
Remote Management	1. System remote management should support browser based graphical remote console along with Virtual Power button, remote boot using USB/CD/DVD Drive. It should be capable of offering upgrade of software and patches from a remote client using Media/image/folder; It should support server power capping and historical reporting and should have support for multifactor authentication. 2. Server should have dedicated 1Gbps remote managementport. 3. Server should support agentless management using the out-of-band remote managementport. 4. The server should support monitoring and recording changes in the server hardware and system configuration. It assists in diagnosing problems and delivering rapid resolution when system failuresoccur. 5. Remote console sharing upto 6 users simultaneously during pre-OS and OS runtime operation, Console replay - Console Replay captures and stores for replay the console video during a server's last majorfault or boot sequence. Microsoft Terminal Services Integration, 128 bit SSL encryption and Secure Shell Version 2 support.Should provide support for AES and 3DES on browser.Should provide remote firmware

	updatefunctionality.Should provide support for Java free graphical remote console.
Server Management	The Systems Management software should provide Role-based security
	Should help provide proactive notification of actual or impending component failure alerts on critical components like CPU, Memory and HDD. Should support automatic event handling that allows configuring policies to notify failures via e-mail, pager, or SMS gateway or automatic execution of scripts.
	Should provide an online portal that can be accesible from anywhere. The portal should provide one stop, online access to the product, support information and provide information to track warranties, support contrats and status. The Portal should also provide a Personaliseddaskboard to monitor device heath, hardware events, contract and warranty status. Should provide a visual status of individual devices and device groups. The Portal should be accessible on premise (at customer location - console based) or off premise (using internet).
	Should support scheduled execution of OS commands, batch files, scripts, and command line apps on remote nodes
	Should be able to perform comprehensive system data collection and enable users to quickly produce detailed inventory reports for managed devices. Should support the reports to be saved in HTML, CSV or XML format.
	Should help to proactively identify out-of-date BIOS, drivers, and Server Management agents and enable the remote update of system software/firmware components.
	The Server Management Software should be of the same brand as of the server supplier.
	Infra Platform /Infra Software to support a variety of different hypervisors, such as VMware, Microsoft Hyper-V, Red Hat KVM.
	Solution available to Deploy a fast and easy installation via software appliance delivery mode. With its own OS and Database to provide infra and lifecycle management
Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support.
Price in (Rs.)	
Deviation if any	

Item No.112	Specifications for Server-V
ITEM CODE	RACK SERVER High Range Make & Model
CPU 1	Intel® Xeon® E7-8891v4 (2.8GHz/10-core/60MB/165W) Processor Kit or Higher
CPU 2	Intel® Xeon® E7-8891v4 (2.8GHz/10-core/60MB/165W) Processor Kit or Higher
CPU L3 CACHE Memory	60 MB (1 x 60 MB) L3 cache
Motherboard	Intel® C602J Chipset
Memory	128 GB with DDR4 DIMMs and server should support upto 6TB memory supporting across 96 DIMM slots or equivalent
Monitor	''20'' LED Colour Monitor or Higher
Keyboard	USB Std. Keyboard
Mouse	USB Std. Mouse

Memory Features	Should support advanced memory features 1) Memoryquarantine 2) Double data device correction 3) Single data devicecorrection 4) Online Memory sparing 5) Memory mirroring
Network controller	Two (2) x Dual Port 10G Base-T Adapter with RJ-45 Ports {Total Four (4) 10G Base-T Ports across Two Adapters with redundant Configuration} or Higher
Expansion Slots	Server should support minimum 9 PCI express 3.0 slots and it should be supplied with minimum two active Full length Full height PCEx 16 slots and two active full length full height PCIex8 slots or Higher
Storage Controllers	Should 12Gbps SAS Controller with 2GB Flash Backed Write Cache. Controller should support data encryption to protect sensitive and mission critical data. Controller should support RAID levels 6, 60, 5, 50, 1, 10 and Advanced Data Mirroring with 3 drives or Higher
Storage Bays	3 x 1.2 TB 10K SAS 12Gbps Hot swappable HDD
Fiber HBA	Two (2) x Single Port 16 Gbps HBAs or Higher
Interfaces	System should support minimum of, Serial port: 1 ; Video: 1 front; 1 rear ;micro-SD Slot: 1 ; USB 2.0 Ports: 8 total: 2 front; 4 rear; 2 internal or Higher
Industry standard compliance	ACPI 2.0. Compliant ; PCIE 2.0 Compliant ; PXE Support ; WOL Support ; Physical Address Extension (PAE) Support ; Microsoft® Logo certifications ; USB 2.0 Support or Higher
Power supply	Configured with platinum efficiency hot plug redundant power supplies
System fans	Configured with hot plug redundant system fans
Form Factor	4 U Rack Mountable
Remote Management	System remote management should support browser based Graphical Remote Console; Virtual Power button, Remote boot using USB / CD/ DVD Drive and should be capable to offer upgrade of software and patches from a remote client using Media / image/folder.
Server Management	System should support both UEFI and legacy system BIOS
	Should help provide proactive notification of actual or impending component failure alerts on critical components like CPU, Memory and HDD. Should support automatic event handling that allows configuring policies to notify failures via e-mail, pager, or SMS gateway or automatic execution of scripts.
	Server should support cloud based management by accessing the servers' configuration information, warranty &sla information, support case details anywhere from the internet
	The Server Management Software should be of the same brand as of the server supplier.
Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support.
Price in (Rs.)	
Deviation if any	

ANNEXURE-5
Laser Printers-Specifications of Item 113 to 118

Item No.113	Required Specifications for Printer-I
ITEM/CODE	Printer Make & Model
Type	Mono
Functions	Print
Print Speed	14PPM
Resolution	600 x 600 DPI
Paper Size	A4/Legal/Letter
Memory	--------
Network Card	10/100 or USB 2.0
Warranty	1 Year
Price In (Rs.)	
Deviation if any	

Item No.114	Required Specifications for Printer-II
ITEM/CODE	Printer Make & Model
Type	Mono,Multifunction
Functions	Print,Copy,Scan
Print Speed	Up to18 PPM
Resolution	600 x 600 DPI
Paper Size	A4/Legal/Letter
Memory	8MB
Network Card	10/100 orUSB 2.0
Warranty	1 Year
Price In (Rs.)	
Deviation if any	

Item No.115	Required Specifications for Printer-III
ITEM/CODE	Printer Make & Model
Type	Mono,MultiFunctionePrint capability
Functions	Print, copy, scan, fax, hotspot
Print Speed	18 PPM
Resolution	600X600 DPI
Paper Size	A4/Legal/Letter
Memory	64MB
Network Card	10/100,USB, and ePrint capability
Warranty	1 Year
Price In (Rs.)	
Deviation if any	

Item No.116	Required Specifications for COPIER-IV
ITEM/CODE	Printer Make & Model
Type	Mono,MultiFunction ,ePrint capability, Duplex
Functions	Print, copy, scan, fax, e print, Wireless, Duplex
COPIER	25 PPM
SCAN	14 PPM (ADF)
Print Speed	25 PPM
FAX	8 Seconds per page
COPY Resolution	600 x 600 DPI
Paper Size	A4/Legal/Letter
Memory	256MB
Network Card	10/100, USB 2.0, WiFi 802.11b/g/n
Warranty	1 Year
Price In (Rs.)	
Deviation if any	

Item No.117	Required Specifications for Printer-V
ITEM/CODE	Printer Make & Model
Type	**Colour Printer**
Functions	Print
Print Speed	16 PPM
Resolution	600 x 600 DPI
Paper Size	A4/Legal/Letter
Memory	8MB
Network Card	10/100 Or USB 2.0
Warranty	1 Year
Price In (Rs.)	
Deviation if any	

Item No.118	Required Specifications for COPIER-VI
ITEM/CODE	Printer Make & Model
Type	Mono,MultiFunction ,ePrint capability, Duplex
Functions	Print, copy, scan, fax, e print, Wireless, Duplex
COPIER	25 PPM
SCAN	14 PPM (ADF)
Print Speed	25 PPM
FAX	8 Seconds per page
COPY Resolution	600 x 600 DPI
Paper Size	A4/Legal/Letter
Memory	256MB
Network Card	10/100, USB 2.0, WiFi 802.11b/g/n
Warranty	1 Year
Price In (Rs.)	
Deviation if any	

Item No.119	Required Specifications for COPIER-I
ITEM/CODE	Printer Make & Model
Type	Mono,MultiFunction
Functions	COPIER/SCAN/PRINT/WIRELESS
COPIER	31 PPM
SCAN	MANUAL (FLAT BED)
Print Speed	31 PPM
COPY Resolution	1200 x 1200 DPI
Paper Size	A3/A4/Legal/Letter
Memory	256MB
Duty cycle	65000 pages
Network Card	10/100 TX Or USB 2.0
Warranty	1 Year
Price In (Rs.)	
Deviation if any	

Item No.120	Required Specifications for COPIER-Ii
ITEM/CODE	Printer Make & Model
Type	Mono,MultiFunction
Functions	COPIER/SCAN/PRINT/WIRELESS
COPIER	45 PPM
SCAN	ADF , FLAT BED
Print Speed	45 PPM
COPY Resolution	1200 x 1200 DPI
Paper Size	A4/Legal/Letter
Memory	1.25 GB
Duty cycle	150000 pages
Network Card	10/100/1000 TX Or USB 2.0
Warranty	1 Year
Price In (Rs.)	
Deviation if any	

Item No.121	Specifications for Scanner-I
ITEM/CODE	Scanner Make & Model
Type	Flat Bed
Resolution	1200 DPI
Bit Depth	48 Bit
Scan Size	A4
Warranty	1 Year
Price In (Rs.)	
Deviation if any	

Item No.122	Specifications for Scanner-II
ITEM/CODE	Scanner Make & Model
Type	Flat Bed , Auto document Feeder
Resolution	2400 x 2400 DPI
Bit Depth	48 Bit
Scan Size	A4 and Legal
ADF	Auto Document Feed
Warranty	1 Year
Price In (Rs.)	
Deviation if any	

Item No.123	Specifications for DOT MATRIX PRINTERS
DOT MATRIX	DOT MATRIX 9 WIRE 80 COLUMN PRINTER

Item No.124	Specifications for DOT MATRIX PRINTERS
DOT MATRIX	DOT MATRIX 9 WIRE136 COLUMN PRINTER

Item No.125	Specifications for DOT MATRIX PRINTERS
DOT MATRIX	DOT MATRIX 24 WIRE136 COLUMN PRINTER

ANNEXURE-09

UPS – Specifications   of Item No 126-133

Item No.126	Specifications for UPS
Item No.127	UPS 600 VA with 14 AH (APC/NUMERIC)
Item No.128	UPS 1 KVA with 14AH (APC/NUMERIC)
Item No.129	UPS 3KVA (APC/NUMERIC) 3KVA Online UPS System with 6Nos. of 12V.65AH SMF Batteries (for a backup of 120 minutes on full load), along with battery rack, connecting cables, inbuilt galvanic Isolation Transformer and installation
Item No.130	UPS 6 KVA(APC/NUMERIC) 6KVA (1P-1P) Online UPS System with 16Nos. of 12V.65AH SMF Batteries (for a backup of 120 minutes on full load), along with battery rack, connecting cables, inbuilt Galvanic Isolation Transformer and installation
Item No.131	UPS 10 KVA (APC/NUMERIC) 10KVA (1P – 1P) Online UPS System with 16Nos. of 12V.65AH SMF Batteries (for a backup of 120 minutes on full Load), along with battery rack, connecting cables inbuilt Galvanic Isolation Transformer and installation
Item No.132	UPS 15 KVA (3P-1P) Online UPS System with 20Nos. of 12V.100AH SMF Batteries (for a backup of 120 minutes on full load), along with battery rack, connecting cables, inbuilt Galvanic Isolation Transformer and installation (Make: APC/NUMERIC)
Item No.133	UPS 20 KVA (3P-1P) Online UPS System with 30Nos. of 12V.100AH SMF Batteries (for a backup of 120 minutes on full load), along with battery rack, connecting cables, inbuilt Galvanic Isolation Transformer and installation (Make: APC/NUMERIC)

ANNEXURE-10

OPTIONALS/IN LIEU ITEMS(Item No.134)

Options (up to Sl.No1-42) Must be the Desktops Laptops & Servers Make Only

SL.No.	Specifications Required Make and Model
01	18.5 Inch LED Monitor
02	20 Inch LED Monitor
03	21.5 inch LED Monitor
04	23 inch LED Monitor
05	24 inch LED Monitor
06	2 GB NVIDIA Graphic Card
07	4 GB NVIDIA Graphic Card
08	500 GB HDD for Desktop
09	1 TB HDD for Desktop
10	4 GB RAM for Desktop
11	8 GB RAM for Desktop
12	4 GB RAM for Laptop
13	8 GB RAM for Laptop
14	Laptop Adaptor
15	Laptop Battery
16	DVD RW for Desktop
17	SMPS for Desktops
18	1TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Hard Drive for Server
19	600 GB 6 G SAS 10K rpm SFF (2.5-inch) Hot pluggable Hard Drive for Server
20	8GB (1x8GB) Single Rank x4 DDR4-2133 CAS Registered Memory Kit for Server
21	16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS Registered Memory Kit for Server
22	Servers Processor Intel® Xeon® E7-8891v4 (2.8GHz/10-core/60MB/165W) Processor Kit
23	EXTERNAL DVD RW
24	1 TB HDD (External Hard Disk)
25	2 TB HDD (External Hard Disk)
26	4 TB HDD (External Hard Disk)
27	USB KEYBOARD
28	USB MOUSE
29	WIRELESS KEYBOARD
30	WIRELESS MOUSE
31	Laptop Carry Bag
32	8 GB Pen Drive
33	16 GB Pen Drive
34	32 GB Pen Drive
35	MOUSE PAD
36	External USB Spekers

37	42U Rack Frame/600X1000/Steel ;Front Perforated door/600/42U-1no ;Rear Dual Perforated Door/600/42U-1no;Side panels/1000/42U-2nos ;Casters Set of 4 -1set ;Shelf -1no ;Vertical Power Manager 12SocX6-16A - 2no's; Keyboard Tray - 1no ;Fan Modtlle/4Fan/Tower Mount-1no ;Mounting Hardware (pack of 20)-2no's
38	AMC For DESKTOP
39	AMC For LAPTOP
40	AMC For WORKSTATION
41	AMC For SERVER
Warranty	
Price in (Rs.)	
Deviation if any	

ANNEXURE-11OPTIONALS/IN LIEU ITEMS(Item No.135)

Options (up to Sl.No1-66) TONERS FOR PRINTERS

S.NO	TONER PART NO	PRINTER NAME
01	CC388AC	M1136/M1213NF/M1216NF/M1218/P1107/P1008
02	CC388AD	M1136/M1213NF/M1216NF/M1218/P1107/P1008
03	Q2612AC	1020/1020PLUS/AIO3020/AIO3030/3050/3052/1010/1018/M1319
04	Q2612AF	1020/1020PLUS/AIO3020/AIO3030/3050/3052/1010/1018/M1319
05	CE278AC	HP LJ 1536/1606
06	CE278AF	HP LJ 1536/1606
07	CB436AC	M1522/M1505/M1120
08	CB436AF	M1522/M1505/M1120
09	CB540A	CM1312/CP1215/CP1515N/CP1518
10	CB541A	CM1312/CP1215/CP1515N/CP1518
11	CB542A	CM1312/CP1215/CP1515N/CP1518
12	CB543A	CM1312/CP1215/CP1515N/CP1518
13	CC530AC	CM2320/CP2025
14	CC531AC	CM2320/CP2025
15	CC532AC	CM2320/CP2025
16	CC533AC	CM2320/CP2025
17	CE310A	MFP175/CP1025/M275MFP
18	CE311A	MFP175/CP1025/M275MFP
19	CE312A	MFP175/CP1025/M275MFP
20	CE313A	MFP175/CP1025/M275MFP
21	CE314A	MFP175/CP1025/M275MFP
22	CE320A	CM1415fnw/CP1525
23	CE321A	CM1415fnw/CP1525
24	CE322A	CM1415fnw/CP1525
25	CE323A	CM1415fnw/CP1525
26	CE410A	MFP M375nw/M351A/M475/M451
27	CE411AC	MFP M375nw/M351A/M475/M451
28	CE412AC	MFP M375nw/M351A/M475/M451
29	CE413AC	MFP M375nw/M351A/M475/M451
30	CE505AC	HP LaserJet P2035 /P2055
31	CF210A	HP LaserJet Pro M251/M276
32	CF211A	HP LaserJet Pro M251/M276
33	CF212A	HP LaserJet Pro M251/M276
34	CF213A	HP LaserJet Pro M251/M276
35	CF228A	HP LASERJET PRO M403/M427
36	CF280A	HP LASERJET PRO M401/M425
37	CF380A	HP Color LaserJet Pro MFP M476
38	CF381AC	HP Color LaserJet Pro MFP M476
39	CF382AC	HP Color LaserJet Pro MFP M476
40	CF383AC	HP Color LaserJet Pro MFP M476
41	CF400A	HP Color LaserJet Pro M252/M274/M277

42	CF401A	HP Color LaserJet Pro M252/M274/M277
43	CF402A	HP Color LaserJet Pro M252/M274/M277
44	CF403A	HP Color LaserJet Pro M252/M274/M277
45	CN045AA	HP Officejet Pro 251dw /276DW/8100/8600/8610/8620
46	CN046AA	HP Officejet Pro 251dw /276DW/8100/8600/8610/8620
47	CN047AA	HP Officejet Pro 251dw /276DW/8100/8600/8610/8620
48	CN048AA	HP Officejet Pro 251dw /276DW/8100/8600/8610/8620
49	CN053AA	HP OfficeJet 7510 /7110/7610/7612
50	CN054AA	HP OfficeJet 7510 /7110/7610/7612
51	CN055AA	HP OfficeJet 7510 /7110/7610/7612
52	CN056AA	HP OfficeJet 7510 /7110/7610/7612
53	Q6000A	HP LASERJET 2600/2605/1600
54	Q6001A	HP LASERJET 2600/2605/1600
55	Q6002A	HP LASERJET 2600/2605/1600
56	Q6003A	HP LASERJET 2600/2605/1600
57	Q7553A	HP LASERJET P2015/P2014/MFP2727/
58	CF350A	HP M153/M176/M177
59	CF351A	HP M153/M176/M177
60	CF352A	HP M153/M176/M177
61	CF353A	HP M153/M176/M177
62	CE400A	MFP M575f/M551/M570/M575
63	CE401A	MFP M575f/M551/M570/M575
64	CE402A	MFP M575f/M551/M570/M575
65	CE403A	MFP M575f/M551/M570/M575
66	CZ192AC	M435/M701/M706

ANNEXURE-12OPTIONAL NETWORK ITEMS(Item No.135)

Options (up to Sl.No1-24) Network Related Products

SL.No.	Specifications Required Make and Model
01	8 – Port Fast Ethernet Switch – Unmanaged
02	8 – Port Gigabit Ethernet Switch – Managed
03	16 – Port Fast Ethernet Switch – Unmanaged
04	16 – Port Gigabit Ethernet Switch – Managed
05	24 – Port Fast Ethernet Switch – Unmanaged
06	24 – Port Gigabit Ethernet Switch – Managed
07	28 – Port Fast Ethernet Switch – Managed
08	28 – Port Gigabit Ethernet Switch – Managed
09	28 – Port Fiber Access Switch – Managed
10	28 – Port Fiber Core Switch – Managed
11	150N Wireless Access Point
12	300N Wireless Access Point
13	150N Wireless Router
14	300N Wireless Router
15	4 U Wall Rack
16	6 U Wall Rack
17	9 U Wall Rack
18	CAT 5e Cable
19	CAT 6e Cable
20	RJ 45 Jacks
21	I/O Boxes
22	I/O Single Faceplate
23	I/O Dual Faceplate
24	24-Port Ethernet Patch Panel
Warranty	
Price in (Rs.)	