

CORRIGENDUM

To RFP Enq. No. - OCAC-TH-15/2017/ENQ/17049

FOR SUPPLY, INSTALLATION, COMMISSION OF IT HARDWARE & PERIPHERALS IN GOVT. POLYTECHNIC COLLEGES & ITIS

Important :- The corrigendum is to be read, duly signed on each page and submitted along with the original RFP document published on the websites <http://www.ocac.in>, www.odisha.gov.in and www.tenders.gov.in vide RFP Enquiry No.: - OCAC-TH-15/2017/ENQ/17049.

Sl#	RFP Document Reference(s)	Original Clause of RFP	Clarifications / Modifications (The Clause may be read as)
1.	2.3.1 Key Information : Pg. 11	Please provide the 72 nos. Location wise Bill of material with Address and contact detail so that we can understand the correct load of UPS location wise.	Clarifications: It will provided to the selected bidder.
2.	RFP Clause No. 4.1., Sl. No. 2 of Pre-Qualification (PQ) / Eligibility Criteria at RFP Page No. 18	Average Sales Turnover in Hardware Sales & Maintenance services: Annual average Turnover during last three financial years i.e, 2014-15, 2015-16 & 2016 - 17 (as per the last published Balance sheets), should be minimum of Rs. 75 Crores that is generated from IT/ITeS supply and their associated maintenance services.	Annual average Turnover during last three financial years i.e, 2014-15, 2015-16 & 2016 - 17 (as per the last published Balance sheets), should be minimum of Rs. 75 Crores generated from IT/ITes supply and associated maintenance services. Note: - For MSME registered firms, annual average Turnover during last three financial years i.e, 2014-15, 2015-16 & 2016 - 17 (as per the last published Balance sheets), should be minimum Rs. 22.5 crores generated from IT/ITeS supply and associated maintenance services. The firm must submit the relevant document in support of registration under MSME.

Sl#	RFP Document Reference(s)	Original Clause of RFP	Clarifications / Modifications (The Clause may be read as)
3.	RFP, Page – 18, Section4/4.1 (Pre Qualification, Eligibility Criteria) Sn#1,	The company offices must have Registered in Odisha, Registered with Valid GST No and having PAN, & IT Return up to31st March 2017	The company offices must have Registered in Odisha, Registered with Valid GST No and having PAN, & IT Return up to 31st March 2017. Note: - In case of no Registered Office in Odisha, self-certification stating that the awarded bidder shall have their office registered in Odisha within 30 days from the award of the contract.
4.	Technical Capability, Pg. 18	Technical Capability: Work order along with Completion Certificates from the client	Technical Capability: Work order along with Completion Certificates from the client In case of ongoing project more than one year, Work order along with ongoing Certificates from the client
5.	9.1.1.1.Bill of Materials [BoM] (Bill of Materials for Polytechnic Colleges, Sl. No. - 11, Bill of Materials for ITIs, Sl. No. 9)	A4 Scanner	Flatbed Scanner (Legal)
6.	22.5.1 DESKTOP PC (MNC BRAND) SI No-16, Pg. 45,	DESKTOP PC (MNC BRAND)	DESKTOP PC: IDC Ranking: OEM should be ranked within Top 5 as per IDC report for Desktop in India for any quarter of 2017, Letter/Report from IDC should be attached along with the bid
7.	Chipset (SI No 22.5.1: Desktop PC, Pg No 45	OEM Chipset Motherboard	Q series Chipset Motherboard or Equivalent Commercial Chipset Motherboard
8.	Page 45, 22.5.1. DESKTOP PC (MNC BRAND) – OS	Pre-loaded Windows 10 Professional (64-bit) (Academic Version)	Pre-loaded Windows 10 Professional (64-bit)
9.	Graphics (SI No 22.5.1 – I(B): Desktop PC, Pg No 45	Integrated HD Graphics	Integrated HD Graphics or Dedicated HD Graphics Card

Sl#	RFP Document Reference(s)	Original Clause of RFP	Clarifications / Modifications (The Clause may be read as)
10.	Page 45, 22.5.1. DESKTOP PC (MNC BRAND) – Audio	Integrated Stereo Sound with 2 internal Speakers & Mic.	Integrated HD Audio
11.	Page 47; 22.5.2. Laptop (Display)	Not more than 15-inch diagonal LED-backlit (1366 x 768 resolution)	Not more than 15.6-inch diagonal LED-backlit (1366 x 768 resolution)
12.	Page 47; 22.5.2. Laptop (Ports)	1 X USB Type – C	1 X USB Type – C (Inbuilt or through External Adapter)
13.	22.5.2. Laptop SI No: 22 – OS	Pre-loaded Windows 10 Professional (64-bit) (Academic Version)	Pre-loaded Windows 10 Professional (64-bit)
14.	Multifunction Printer (Print, Scan, Copy, Fax) Section 22.5.4 Page 50	Number of Copies – 1000	Number of Copies – 99 or higher
15.	Flatbed Scanner (Legal) Section 22.5.5 Page 53	Bit depth - 48 bit	Bit depth - 24 bit
16.	Flatbed Scanner (Legal) Section 22.5.5 Page 53	Scan resolution Max Horizontal 4800 Max. Vertical : 9600 Pixel per line : 256	Scan resolution: 2400 x 2400
17.	Flatbed Scanner (Legal) Section 22.5.5 Page 53	Bit Depth - 8 bit (Mono) , 96-bit (Colour)	Bit Depth - 8 bit (Mono) , 24-bit (Colour) or better
18.	Flatbed Scanner (Legal) Section 22.5.5 Page 53	Supported file format: PDF, JPEG, PNG, BMP, TIFF, TXT(Text), RTF (Rich Text) and searchable PDF	Supported file format: PDF, JPEG, PNG, BMP, TIFF, RTF (Rich Text) and searchable PDF
19.	ADF Scanner Section 22.5.6 Page 54	Scan Size 216 x 3100 mm (ADF) 216 x 356 mm	Scan Size 216 x 297 mm
20.	ADF Scanner Section 22.5.6 Page 54	Automatic Duplex scanning Yes (3 Pass)	Automatic Duplex scanning: Yes
21.	ADF Scanner Section 22.5.6 Page 54	ADF Speed - Up to 30 ppm (b&w, gray and color, 300 dpi)	ADF Speed - Up to 30 ppm & 60 ipm (b&w, gray and color, 300 dpi)
22.	ADF Scanner Section 22.5.6 Page 54	Colour bit Depth : 24-bits external, 48-bits internal	Colour bit Depth : 24-bits external, 24-bits internal

SI#	RFP Document Reference(s)	Original Clause of RFP	Clarifications / Modifications (The Clause may be read as)
23.	Page 55: 22.5. Form 4: Compliance Sheet for Technical Proposal, Clause 22.5.7.	1 KVA Line-Interactive UPS	1 KVA Online UPS with 1 hour backup. Technical Specification enclosed as <u>Annexure - I</u>
24.	22.5.9. 5 KVA Online UPS with 1 hr. Backup, SI No: 2, Pg. 58	AC Input Voltage Range: 160-280 VAC: 3 Phase @ 100% Load	AC Input Voltage Range: 160-280 VAC: Single Phase @ 100% Load
25.	22.5.10. 5 KVA Online UPS with 1 hr. Backup, SI No: 2	AC Input Voltage Range: 160-280 VAC: 3 Phase @ 100% Load	AC Input Voltage Range: 160-280 VAC: Single Phase @ 100% Load
26.	22.5.8. 2 KVA Online UPS with 1 hr. Backup SI No: 20 22.5.9. 5 KVA Online UPS with 1 hr. Backup SI No: 20 22.5.10.10 KVA Online UPS with 1 hr. Backup SI No: 20	Relative humidity: 0% to 95%, non-condensing	Relative humidity: 5% to 95%, non-condensing
27.	22.5.9. 5 KVA Online UPS with 1 hr. Backup, SI No: 9, Pg 58	Crest Factor: 4:1 or Higher	Crest Factor: 3:1 or Higher
28.	22.5.10. 10 KVA Online UPS with 1 hr. Backup, SI No: 9. Pg 60	Crest Factor: 4:1 or Higher	Crest Factor: 3:1 or Higher
29.	Page 62; 22.5.11. Multimedia DLP HD Projector	Lamp Life: 6000 hours or more	Lamp Life: 5,000 Hours or Higher
30.	Page 62; 22.5.11. Multimedia DLP HD Projector (Interface)	Computer in (D-sub 15pin) x 2 Monitor out (D-sub 15pin) x 1 USB (Type Mini B) x1 RS232 (DB-9pin) x 1	Computer in (D-sub 15pin) x 1, HDMI In x1, Monitor out (D-sub 15pin) x 1 USB (Type Mini B) x1 RS232 (DB-9pin) x 1
31.	Page 62; 22.5.11. Multimedia DLP HD Projector (Picture Mode)	Dynamic/ Presentation/ sRGB/ Cinema/ User 1/ User 2	Multiple Picture Mode
32.	Page 62; 22.5.11. Multimedia DLP HD Projector (Accessories)	kindly Confirm the Length of VGA cable (d-Sub 15 pin) and also please confirm whether Projector Screen is required or not	Clarification: OEM supplied standard VGA cable must be given in Accessories. 20 mtr VGA cable with connector to be quoted separately.

Sl#	RFP Document Reference(s)	Original Clause of RFP	Clarifications / Modifications (The Clause may be read as)
33.	22.5.12. DATABASE SERVER; 22.5.13. APPLICATION SERVER; 22.5.14. SR SERVER	Processor: 2 X Intel Xeon Processor E7 family @ Ten Core Processor, Base Frequency 2.8 GHz & 60 MB Cache	Processor: 2 X Intel Xeon Processor E5 family @ 10 Core Processor, Base Frequency 2.4 GHz & 25 MB Cache
34.	22.5.12. DATABASE SERVER; 22.5.13. APPLICATION SERVER; 22.5.14. SR SERVER	Motherboard: Intel C610 Series Chipset or equivalent Processor OEM motherboard / chipset.	Intel C600 series or equivalent processor OEM motherboard / chipset.
35.	22.5.12. DATABASE SERVER; 22.5.13. APPLICATION SERVER; 22.5.14. SR SERVER	1 x USB 3.0 port & 1 x Micro SDHC or SD card slot	1 x USB 3.0 port
36.	22.5.12 Database Server, Page 63	Operating System & Database Software : RHEL 7 or higher with Postgre SQL 9.5 or higher	Operating System & Database Software : RHEL 7 or higher (with 5 Years Subscription) and Postgre SQL 9.5 or higher (Open Source)
37.	22.5.13 Application Server, Page 65	Operating System Software : RHEL 7 or above	Operating System: RHEL 7 or higher (with 5 Years Subscription)
38.	22.5.14 SR Server, Page 67	Operating System Software : RHEL 7 or above	Operating System: RHEL 7 or higher (with 5 Years Subscription)
39.	22.5.12 Database Server, Page 63	Rack, KVM & TFT: 1 nos. 42U (600x1000) with all Accessories will be supplied with server for Database and other server, 1nos. 19.5" Wide TFT (Same make of Server), 4 port KVM switch with cable	Rack, KVM TFT : 1 nos. 42U (600x1000) with all Accessories to be supplied with Database and other servers, 1 no. of 19.5" Wide TFT (Same make of Server), 1 no. of OEM Keyboard, 1 no. of OEM USB Optical mouse and 1 no. of KVM switch with minimum 4 port with necessary cables.
40.	22.5.13 Application Server, Page 65	Rack, KVM & TFT	This Clause is deleted.
41.	22.5.14 SR Server, Page 67	Rack, KVM & TFT	This Clause is deleted.
42.	22.5.12. DATABASE SERVER; 22.5.13. APPLICATION SERVER; 22.5.14. SR SERVER; (Gartner standing)	The OEM for the proposed server must be in Leaders quadrant of latest (2016) Gartner's report of "Magic Quadrant for Modular Servers"	IDC Ranking: OEM should be ranked within Top 5 Companies, Worldwide Server Systems Unit Shipments, Market Share, and Growth in any Quarter of the year 2017. The bidder has to submit the relevant documents.

Sd/-

General Manager (Admn)

1. DESKTOP PC

Make:				
Model:				
Sl. No.	Parameter	Description of Requirement	Compliance (Yes (Y)/ No (N) OR Any Deviations	Page No. where the specs are attached
1.	Form Factor	Tower		
2.	Processor	Intel i5 6th Generation processor / equivalent AMD processor with minimum 4 core, 2.10 GHz frequency or higher and 6 MB Cache or higher		
3.	Chipset	Q series Chipset Motherboard or Equivalent Commercial Chipset Motherboard		
4.	Graphics	Integrated HD Graphics or Dedicated HD Graphics Card		
5.	Memory	8GB DDR4 2133 MHz or higher RAM expandable to 16 GB (at least 2 DIMM slots)		
6.	Hard Disk Drive	1 TB 7200 RPM SATA Hard Drive or higher		
7.	Monitor	18.5" or higher LED Monitor with Non Touch Display Type		
8.	Display Resolution	1366 X 768 Pixel or Higher		
9.	Ports	1. 1 X VGA/HDMI/ Display Port 2. 2 X USB 3.0 3. 4 X USB 2.0 4. 1 X RJ 45 5. 1 X Headphone with Microphone Jack		
10.	Ethernet	Integrated Gigabit Ethernet 10/100/1000		
11.	Expansion Slot	PCIeX1, PCIeX16		
12.	Keyboard & Mouse	OEM Keyboard & OEM optical scroll mouse with USB interface		
13.	Audio	Integrated HD Audio		
14.	Optical Drive	Integrated DVD RW 8X or above		
15.	Operating System	Pre-loaded Windows 10 Professional (64-bit)		
16.	Anti-Virus	Antivirus with Antimalware and Internet security with 5 years Subscription.		
17.	Power Supply	230 V, 50 Hz		

18.	Certification	ISO 9001:2015, Energy Star 6.1/ TCO, ISO 14001:2015/EPEAT India Certification, FCC / CE, Windows, RoHS Compliant		
19.	IDC Ranking	OEM should be ranked within Top 5 as per IDC report for Desktop in India for any quarter of 2017, Letter/Report from IDC should be attached along with the bid		
20.	Warranty	5 Years Onsite OEM warranty (OEM undertaking on letter head need to be submitted along with bid)		

2. Laptop

Make:				
Model:				
Sl. No.	Parameter	Description of Requirement	Compliance (Yes (Y)/ No (N) OR Any Deviations	Page No. where the specs are attached
1.	Constructions and Externals	Metal/Alloy/reinforced hinges for display. The Casing ABS plastic		
2.	Processors	Intel i5 7th Generation processor / equivalent AMD processor with minimum 2 core, 2.5 GHz frequency or higher and 3 MB Cache or higher		
3.	Chipset	OEM Chipset Motherboard		
4.	Wireless	Integrated wireless 802.11 b/g/n with Bluetooth 4.0		
5.	Memory	8 GB DDR4 SDRAM (2133 MHz) or higher		
6.	Hard Disk Drive	1 TB SATA or higher with 5400 rpm		
7.	Graphics	Integrated HD Graphics		
8.	Display	Not more than 15.6-inch diagonal LED-backlit (1366 x 768 resolution)		
9.	Audio	Integrated HD Audio		
10.	Optical Drive	Internal DVD RW		
11.	Webcam	720p HD webcam		
12.	Wireless & Bluetooth	Wifi 802.11 b/g/n and Bluetooth 4.0 or higher		
13.	Keyboard	Spill –resistant keyboard with Touchpad		
14.	Ethernet Interface	Integrated Gigabit Ethernet 10/100/1000		
15.	Ports	1 X USB Type – C (Inbuilt or through External Adapter) 2 X USB 3.0		

		1 X VGA 1 X HDMI 1 X Headphone / microphone Combo 1 X Power connector 1 X Ethernet 1 X Inbuilt MMC Card Reader		
16.	Integrated Media Card Reader	multi-format digital media reader		
17.	Weight	not more than 2.5 Kgs with battery		
18.	Security	Integrated Fingerprint Reader, TPM 2.0		
19.	Speaker & Microphones	Integrated stereo speakers & Integrated microphone		
20.	Trusted Platform Enabled	Yes		
21.	Battery	Internal 40 WHr battery with minimum 5 Hours of battery back-up time		
22.	Operating System	Preloaded Genuine Windows 10 Professional 64 bit.		
23.	Anti-Virus	Antivirus with Antimalware and Internet security with 5 years Subscription.		
24.	Certification	Energy Star®/BEE Version I, RoHS, Windows and Linux Compliance Certificate.		
25.	AC Power Adapter	Input Voltage Range 100V- 240V, 50 Hz AC power adapter with necessary cables		
26.	OEM/Product Certification	ISO 9001:2015, Energy Star 6.1 or TCO, ISO 14001:2015 or EPEAT India Certification, FCC or CE, RoHS, Windows, Linux		
27.	Standard Accessories	Power cable, Power Adaptor and Charger, User Manuals and Laptop backpack carry bags		
28.	Warranty	5 Years Onsite OEM warranty (OEM undertaking on letter head need to be submitted along with bid) excluding battery		

3. Laser Printer

Make:				
Model:				
Sl. No.	Parameter	Description of Requirement	Compliance (Yes (Y)/ No (N) OR Any Deviations	Page No. where the specs are attached
1.	Functions	A4 SIZE LASER PRINTER		
2.	Type	Mono Laser Printer		
3.	Resolution	600 x 600 dpi (1200 dpi effective)		
4.	Speed	14 ppm or higher		
5.	Memory	2 MB or higher		
6.	Paper Handling	150 sheets input and 100 sheets output		
7.	Print size	A4,A5,A6,DL,Post Card		
8.	Standard Operating System	Windows, MAC, Linux (specific flavor/version)		
9.	Connectivity	USB 2.0		
10.	Duty Cycle	5000 Pages per month		
11.	Black Cartridge Yield	1500 pages Full		
12.	Energy Star Compliant	Yes		
13.	RoHS Compliant	Yes		
14.	Warranty	5 Years OEM Warranty		

4. Multifunction Printer (Print, Scan, Copy, Fax)

Make:				
Model:				
Sl. No.	Parameter	Description of Requirement	Compliance (Yes (Y)/ No (N) OR Any Deviations	Page No. where the specs are attached
Printing Features & Specifications				
1.	Printing Method	Monochrome Laser		
2.	Print Speed (forA4)	25 PPM		

3.	Print Quality (Resolution)	1,200 x 1,200dpi		
4.	Print Language	UFR II LT, PCL 6		
5.	Auto Duplex Printing	Standard		
6.	Paper Size	A4, Letter, Legal		
Copying Features & Specifications				
7.	Copy Speed (A4)	25ppm		
8.	Copy Resolution	600 x 600 dpi		
9.	Number of Copies	99		
10.	Reduce / Enlargement	25 - 400% in 1% increments		
11.	Copy Features	Memory Sort, 2 on 1, 4 on 1, ID Card Copy		
Scanning Features & Specifications				
12.	Scan Type	Colour Contact Image Sensor (CIS)		
13.	File format	JPEG, PDF, PNG		
14.	Scan Resolution (Optical)	600 x 600dpi (Flat Bed) 300 X 300 DPI (ADF)		
15.	Maximum Scan Size	216 x 297mm		
16.	Scan Speed (Mono)	14 PPM		
17.	Scan Speed (Colour)	5 PPM		
18.	Colour	24 bit , Gray Scale : 256		
19.	Pull Scan & Push Scan	USB and Network		
20.	Driver Compatibility	TWAIN, WIA, ICA		
Paper Handling Features & Specifications				
21.	Auto Document Feeder (ADF)	minimum 35 sheets		
22.	Input Paper handling	250-sheet input tray (min)		
23.	Output Paper Handling	100 sheets output bin (min)		
24.	ADF Paper size	A4, B5, A5, B6, Letter, Legal		

25.	Paper size	A4, B5, A5, Legal, Letter, Statement, Executive, Government Letter, Government Legal, Foolscap		
Interfaces & Connectivity & Specifications				
26.	Wired Interface	High-Speed USB 2.0		
27.	Wireless Interface	Wi-Fi 802.11b/g/n		
28.	Network Interface (Print)	LPD, RAW, IPP / IPPS, WSD-Print (IPv4, IPv6)		
29.	Network Interface (Scan)	WSD-Scan (IPv4, IPv6)		
30.	Network Management	SNMPv1/v3 (IPv4, IPv6), HTTP / HTTPS, SNMP		
31.	Wired Network security	IP / Mac address filtering, SNMPv3, SSL (HTTPS / IPPS), IEEE802.1x		
32.	Wireless Network security	WEP 64 / 128-bit, WPA-PSK (TKIP / AES), WPA2-PSK (AES)		
33.	Mobile Printing Capability	Required. Necessary Software to be provided		
34.	O/S Compatibility	Microsoft® Windows® 10 (32 / 64-bit), Windows® 8.1 (32 / 64-bit), Windows® 8 (32 / 64-bit), Windows® 7 (32 / 64-bit), Windows Vista® (32 / 64-bit), Windows® Server 2012 R2 (64-bit), Windows® Server 2012 (64-bit), Windows® Server 2008 R2 (64-bit), Windows® Server 2008 (32 / 64-bit), Windows® Server 2003 R2 (32 / 64-bit), Windows® Server 2003 (32 / 64-bit), Mac OS, Linux		
Misc. Features & Specifications				
35.	Memory	256 MB minimum		
36.	Digital Sending Feature	Scan to email; Scan to network folder		
37.	Duty Cycle	Minimum 8000 pages		
38.	Software	Printer driver, Scanner driver, MF Scan Utility, SSID Tool, Toner Status		
39.	Operational Panel	B/W LCD		
40.	Warranty	5 years OEM onsite Warranty		

5. Flatbed Scanner (Legal)

Make:				
Model:				
Sl. No.	Parameter	Description of Requirement	Compliance (Yes (Y)/ No (N) OR Any Deviations	Page No. where the specs are attached
1.	Scanner type	Flatbed		
2.	Bit depth	24-bit		
3.	Scan resolution	2400 x 2400		
4.	Scanning Speed	4 PPM minimum		
5.	Bit Depth	Bit Depth - 8 bit (Mono) , 24-bit (Colour) or better		
6.	Levels of grayscale	256		
7.	Scan size (flatbed)	216 x 311 mm		
8.	Media types	Paper (plain, inkjet, photo)		
9.	Supported file format	Supported file format: PDF, JPEG, PNG, BMP, TIFF, RTF (Rich Text) and searchable PDF		
10.	Connectivity	High Speed USB 2.0		
11.	Operating temperature range	50 to 95° F		
12.	Operating humidity	15 to 80% RH		
13.	OS Compatibility	Windows , MAC, Linux		
14.	Warranty Support	5 years OEM onsite Warranty		

6. ADF Scanner

Make:				
Model:				
Sl. No.	Parameter	Description of Requirement	Compliance (Yes (Y)/ No (N) OR Any Deviations	Page No. where the specs are attached
1.	Scanner type	Flatbed, ADF		
2.	Scan Size	216 x 297 mm		
3.	Scan Resolution	Up to 600 dpi (color and mono, ADF) Up to 1200 dpi (color and mono, flatbed)		
4.	Automatic	Yes		

	Duplex scanning			
5.	ADF Capacity	50 sheets		
6.	ADF Speed	Up to 30 ppm & 60 ipm (b&w, gray and color, 300 dpi)		
7.	Daily duty Cycle	4000 pages (ADF)/100 pages (FB)		
8.	Colour bit Depth	24-bits external, 24-bits internal		
9.	Gray Scale Level	256		
10.	Scan File format	PDF, JPEG, PNG, BMP, TIFF, TXT(Text), RTF (Rich Text) and searchable PDF		
11.	Connectivity	Hi-Speed USB 2.0, Built-in Fast Ethernet 10/100/1000Base-TX network port		
12.	Software	All Driver & associated software to make the Scanner fully operational		
13.	Warranty	5 years OEM onsite Warranty		

7. 1 KVA Online UPS with 1 hr. Backup

SN	Features	Specifications	Complied (Y/N)	Deviations (If Any)
1.	Rating	1 KVA/800W IGBT Based On-Line UPS		
Input AC Parameters				
2.	Input Voltage	160 - 280V		
3.	Frequency	50 Hz; Tolerance (45-55) Hz		
4.	Input power factor	> 0.98		
5.	Surge Protection Device (inbuilt)	UPS should have inbuilt 1 Phase, Type 2 surge arrester (20kA), according to EN 61643-11. It should provide Lightning Protection (according to IEC 1312-1 and EN 62305) through equi-potential bonding and eliminate transient overvoltage, originating during atmospheric discharges or switching processes. (Datasheet of SPD should be provided)		
Output AC Parameters				
6.	Rated apparent/active	1000 VA / 800W		
7.	Output Voltage	220/230 V AC		
8.	Frequency	50 +/- 0.5 Hz		
9.	Waveform	True Sine Wave		
10.	Over load	110% for 30 seconds, 125% for 10 seconds		

11.	Output Power Factor	0.8		
Indication & Controls				
12.	Display & Level Indications	LED mimic diagram + LCD Display with measurements (Input / Output / Bypass V & Hz, Battery V & capacity level indicator, Load % & level Indicator)		
13.	Audio Alarm operation	Suitable Alarms for Battery Operation / Overload		
14.	Communication Ports	1 x Intelligent-Slot (SNMP), 1 x RS232 Serial Port.		
15.	Back-up Time & Battery Bank Details (VAH Rating)	12V, VRLA Sealed lead-acid Maintenance Free batteries for providing necessary back-up of 60 minutes (1500 VAH with each UPS) along with suitable battery rack		
Environmental				
16.	Operating Temperature:	0 Degree C to 40 Degree C		
17.	Relative humidity	5% to 95%, non-condensing		
18.	Audible Noise	<50 dB		
19.	Certification	CE/BIS Certification (confirming to IEC 62040-1 & IEC 62040-2 Standards) ISO 9001, ISO 14001, OHSAS 18001 certified. RoHS Compliance		
20.	Warranty	5 years onsite OEM warranty including battery		

8. 2 KVA Online UPS with 1 hr. Backup

Make:				
Model:				
Sl. No.	Parameter	Description of Requirement	Compliance (Yes (Y)/ No (N) OR Any Deviations	Page No. where the specs are attached
1.	Rating	2 KVA/1600W IGBT Based On-Line UPS		
Input AC Parameters				
2.	Input Voltage	160 - 280V		
3.	Frequency	50 Hz; Tolerance (45-55) Hz		
4.	Input power factor	> 0.98		

5.	Surge Protection Device (inbuilt)	UPS should have inbuilt 1 Phase, Type 2 surge arrester (20kA), according to EN 61643-11. It should provide Lightning Protection (according to IEC 1312-1 and EN 62305) through equi-potential bonding and eliminate transient overvoltage, originating during atmospheric discharges or switching processes. (Datasheet of SPD should be provided)		
Output AC Parameters				
6.	Rated apparent/active power	2000 VA /1600W		
7.	Output Voltage	220/230 V AC		
8.	Frequency	50 +/- 0.5 Hz		
9.	Waveform	True Sine Wave		
10.	Over load	110% for 30 seconds, 125% for 10 seconds		
11.	Output Power Factor	0.8		
Indication & Controls				
12.	Display & Level Indications	LED mimic diagram + LCD Display with measurements (Input / Output / Bypass V & Hz, Battery V & capacity level indicator, Load % & level Indicator)		
13.	Audio Alarm operation	Suitable Alarms for Battery Operation / Overload		
14.	Communication Ports	1 x Intelligent-Slot (SNMP), 1 x RS232 Serial Port.		
15.	Back-up Time & Battery Bank Details (VAH Rating)	12V, VRLA Sealed lead-acid Maintenance Free batteries for providing necessary back-up of 60 minutes (3000 VAH with each UPS) along with suitable MS battery rack		
Environmental				
16.	Operating Temperature:	0 Degree C to 40 Degree C		
17.	Relative humidity	5% to 95%, non-condensing		
18.	Audible Noise	<50 dB		

19.	Certification	CE/BIS Certification (confirming to IEC 62040-1 & IEC 62040-2 Standards) ISO 9001, ISO 14001, OHSAS 18001 certified. RoHS Compliance		
20.	Relative humidity	0% to 95%, non-condensing		
21.	Warranty	5 years onsite OEM warranty including battery		

9. 5 KVA Online UPS with 1 hr. Backup

Make:				
Model:				
Sl. No.	Parameter	Description of Requirement	Compliance (Yes (Y)/ No (N) OR Any Deviations	Page No. where the specs are attached
1.	Rating	5 KVA/4.5 KW IGBT Based On-Line UPS		
2.	AC Input Voltage Range	AC Input Voltage Range: 160-280 VAC: Single Phase @ 100% Load		
3.	Surge Protection Device	UPS should have inbuilt 1 Phase, Type 2 surge protection device (40kA) according to EN 61643-11. It should provide Lightning Protection (according to IEC 1312-1 and EN 62305) through equipotential bonding and eliminate transient overvoltage, originating during atmospheric discharges or switching processes. (Datasheet of SPD should be provided)		
4.	Input Frequency	50Hz \pm 10% (Suitable for Generators)		
5.	AC Output Voltage	230 V AC, 1-phase \pm 1% (Sine Wave Output)		
6.	Output Frequency	50 Hz \pm 0.05 Hz		
7.	Overload Capacity	125% for 10 minutes, 150% for 60 seconds		
8.	Harmonic Distortion	< 2% (for linear loads) & <5% (for non linear loads)		
9.	Crest Factor	3:1 or higher		
10.	Indications & Audible Alarms	Mains On, Inverter On, Overload, Load On Mains, Load On Battery, Battery Low		
11.	Digital Metering	LCD display for measurement of AC Voltage, Battery voltage, Battery Current, Load Current, Output frequency.		
Environmental				

12.	Operating Temperature:	0 Degree C to 45 Degree C		
13.	Relative humidity	5% to 95%, non-condensing		
14.	Audible Noise	<60 dB		
15.	Battery Back-up & Other Details	The system must be capable of providing requisite battery back-up time of 60 minutes using 12V, VRLA Sealed Maintenance Free Batteries. Required VAH : 7000 VAH for 60 minutes back-up		
16.	Certification	CE Certification(confirming to IEC 62040-1 & IEC 62040-2 Standards) ISO 9001, ISO 14001, OHSAS 18001 certified. RoHS Compliance		
17.	Warranty	5 years onsite OEM warranty including battery		

10. 10 KVA Online UPS with 1 hr. Backup

Make:				
Model:				
Sl. No.	Parameter	Description of Requirement	Compliance (Yes (Y)/ No (N) OR Any Deviations	Page No. where the specs are attached
1.	Rating	10 KVA/9 KW IGBT Based On-Line UPS		
2.	AC Input Voltage Range	AC Input Voltage Range: 160-280 VAC: Single Phase @ 100% Load		
3.	Surge Protection Device	UPS should have inbuilt 3 Phase, Type 2 surge protection device (70kA) according to EN 61643-11. It should provide Lightning Protection (according to IEC 1312-1 and EN 62305) through equipotential bonding and eliminate transient overvoltage, originating during atmospheric discharges or switching processes. (Datasheet of SPD should be provided)		
4.	Input Frequency	50Hz \pm 10% (Suitable for Generators)		
5.	AC Output Voltage	230 V AC, 1-phase \pm 1% (Sine Wave Output)		
6.	Output Frequency	50 Hz \pm 0.05 Hz		
7.	Overload Capacity	125% for 10 minutes, 150% for 60 seconds		
8.	Harmonic Distortion	< 2% (for linear loads) & <5% (for non linear loads)		
9.	Crest Factor	3:1 or higher		
10.	Indications & Audible Alarms	Mains On, Inverter On, Overload, Load On Mains, Load On Battery, Battery Low		
11.	Digital Metering	LCD display for measurement of AC Voltage, Battery voltage, Battery Current, Load Current, Output frequency.		
Environmental				
12.	Operating Temperature:	0 Degree C to 45 Degree C		
13.	Relative humidity	5% to 95%, non-condensing		
14.	Audible Noise	<60 dB		
15.	Battery Back-up & Other Details	The system must be capable of providing requisite battery back-up time of 1 hours using 12V, VRLA Sealed Maintenance Free Batteries. Required VAH : 14000 VAH for 60 minutes back-up		

16.	Certification	CE Certification(confirming to IEC 62040-1 & IEC 62040-2 Standards) ISO 9001, ISO 14001, OHSAS 18001 certified. RoHS Compliance		
17.	Warranty	5 years onsite OEM Warranty Including Battery		

11. [Multimedia DLP HD Projector](#)

Make:				
Model:				
Sl. No.	Parameter	Description of Requirement	Compliance (Yes (Y)/No (N) OR Any Deviations	Page No. where the specs are attached
1.	Projection System	DLP		
2.	Native Resolution	XGA(1024X768)		
3.	Brightness (ANSI Lumens)	3000 Lumens or better		
4.	Contrast Ratio	13000:1 or better		
5.	Display Color	1.07 Billion Colors		
6.	Aspect Ratio	Native 4:3 or better		
7.	Image Size (Diagonal)	60"~120" / 300"		
8.	Zoom Ratio	Fixed		
9.	Lamp Life	5000 hours or more		
10.	Keystone Adjustment	1D, Vertical +/- 30 degrees or better		
11.	Resolution Support	VGA (640 x 480) to UXGA (1600 x 1200)		
12.	Vertical Scan Rate	23~120Hz		
13.	Horizontal Frequency	15K~102KHz		
14.	HDTV Compatibility	480i, 480p, 576i, 576p, 720p, 1080i, 1080p		
15.	Video Compatibility	NTSC, PAL, SECAM		
16.	Interface	Computer in (D-sub 15pin) x 1, HDMI In x1, Monitor out (D-sub 15pin) x 1 USB (Type Mini B) x1 RS232 (DB-9pin) x 1		
17.	Picture Mode	Multiple Picture Mode		

18.	Accessories	Remote Control with Battery Power Cord User Manual Quick Start Guide Warranty Card Wall Mount Kit Carry bag OEM supplied standard VGA cable Note: - 20 mtr VGA cable with connector to be quoted separately.		
19.	Warranty	5 years onsite warranty for Projector and 1 year for Lamp		

12. DATABASE SERVER

Make:				
Model:				
Sl. No.	Parameter	Description of Requirement	Compliance (Yes (Y)/No (N) OR Any Deviations	Page No. where the specs are attached
1.	Processor	2 X Intel Xeon Processor E5 family @ 10 Core Processor, Base Frequency 2.4 GHz & 25 MB Cache		
2.	Motherboard	Intel C600 series or equivalent processor OEM motherboard / chipset.		
3.	Memory	32 GB DDR4 ECC RAM upgradable to 256 GB		
4.	Hard disk drive	4 x 1.2TB 10K SAS HDD.		
5.	HDD Controller	PCIe 3.0 based 12G SAS Raid Controller with 1GB cache module SAS RAID Controller supporting RAID 0,1, 1+0, 5, 5+0, 6.		
6.	Clustering	Should support Cluster mode for High Availability		
7.	Networking	2 Nos. Gigabit Ethernet Port, 1 no. Management port		
8.	Ports	1 x USB 3.0 portx		
9.	Form factor	2U		
10.	Standards / Compliances	ACPI 2.0, PCIe 3.0, ASHRAE A3, TPM 1.2 Support, IPMI 2.0, SSL 2.0, DMTF, Energy Star		
11.	Power Supply	Redundant Power Supply		
12.	Security	Power-on password. Administrator's Password.		
13.	OS Support	Microsoft Windows Server, Hyper-V, VM-		

		Ware, Red Hat Enterprise Linux (RHEL), SUSE Linux Enterprise Server (SLES)		
14.	Operating System & Database Software	Operating System & Database Software : RHEL 7 or higher (with 5 Years Subscription) and Postgre SQL 9.5 or higher (Open Source)		
15.	Server Management	Should provide proactive notification of actual or impending component failure alerts on critical components like CPU, Memory and HDD.		
16.	IDC Ranking	OEM should be ranked within Top 5 Companies, Worldwide Server Systems Unit Shipments, Market Share, and Growth in any Quarter of the year 2017. The bidder has to submit the relevant documents.		
17.	Warranty	5 years comprehensive warranty from OEM with onsite service support from the date of installation without any extra cost (Proof of proposed warranty from OEM must be enclosed)		
18.	Rack, KVM & TFT	1 nos. 42U (600x1000) with all Accessories to be supplied with Database and other servers, 1 no. of 19.5" Wide TFT (Same make of Server), 1 no. of OEM Keyboard, 1 no. of OEM USB Optical mouse and 1 no. of KVM switch with minimum 4 port with necessary cables.		

13. APPLICATION SERVER

Make:				
Model:				
Sl. No.	Parameter	Description of Requirement	Compliance (Yes (Y)/No (N) OR Any Deviations	Page No. where the specs are attached
1.	Processor	2 X Intel Xeon Processor E5 family @ 10 Core Processor, Base Frequency 2.4 GHz & 25 MB Cache		
2.	Motherboard	Intel C600 series or equivalent processor OEM motherboard / chipset.		
3.	Memory	16 GB DDR4 ECC RAM upgradable to 128 GB		
4.	Hard disk drive	4 x 1.2TB 10K SAS HDD.		
5.	HDD	PCIe 3.0 based 12G SAS Raid Controller with		

	Controller	1GB cache module SAS RAID Controller supporting RAID 0,1, 1+0, 5, 5+0, 6.		
6.	Clustering	Should support Cluster mode for High Availability		
7.	Networking	2 Nos. Gigabit Ethernet Port, 1 no. Management port		
8.	Ports	1 x USB 3.0 port		
9.	Form factor	2U		
10.	Standards / Compliances	ACPI 2.0, PCIe 3.0, ASHRAE A3, TPM 1.2 Support, IPMI 2.0, SSL 2.0, DMTF, Energy Star		
11.	Power Supply	Redundant Power Supply		
12.	Security	Power-on password. Administrator's Password.		
13.	OS Support	Microsoft Windows Server, Hyper-V, VM-Ware, Red Hat Enterprise Linux (RHEL), SUSE Linux Enterprise Server (SLES)		
14.	Operating System	Operating System: RHEL 7 or higher (with 5 Years Subscription)		
15.	Server Management	Should provide proactive notification of actual or impending component failure alerts on critical components like CPU, Memory and HDD.		
16.	IDC Ranking	OEM should be ranked within Top 5 Companies, Worldwide Server Systems Unit Shipments, Market Share, and Growth in any Quarter of the year 2017. The bidder has to submit the relevant documents.		
17.	Warranty	5 years comprehensive warranty from OEM with onsite service support from the date of installation without any extra cost (Proof of proposed warranty from OEM must be enclosed)		

14. SR SERVER

Make:				
Model:				
Sl. No.	Parameter	Description of Requirement	Compliance (Yes (Y)/No (N) OR Any Deviations	Page No. where the specs are attached
1.	Processor	2 X Intel Xeon Processor E5 family @ 10 Core Processor, Base Frequency 2.4 GHz & 25 MB Cache		

2.	Motherboard	Intel C600 series or equivalent processor OEM motherboard / chipset.		
3.	Memory	16 GB DDR4 ECC RAM Upgradable to 128 GB Ram		
4.	Hard disk drive	4 x 1.2TB 10K SAS HDD.		
5.	HDD Controller	PCIe 3.0 based 12G SAS Raid Controller with 1GB cache module SAS RAID Controller supporting RAID 0,1, 1+0, 5, 5+0, 6.		
6.	Clustering	Should support Cluster mode for High Availability		
7.	Networking	Should have Dual ported 1Gbps Ethernet		
8.	Form Factor	2U		
9.	Ports	1 x USB 3.0 port		
10.	Bus Slots	Minimum two PCI-Express slots		
11.	Standards / Compliances	ACPI 2.0, PCIe 3.0, ASHRAE A3, TPM 1.2 Support, IPMI 2.0, SSL 2.0, DMTF, Energy Star		
12.	Security	Power-on password. Administrator's password.		
13.	Power Supply	Redundant Power Supply		
14.	OS Support	Microsoft Windows Server, Hyper- V, VMWare, Red Hat Enterprise Linux (RHEL), SUSE Linux Enterprise Server (SLES)		
15.	Operating System	RHEL 7 or higher (with 5 Years Subscription)		
16.	Server Management	Should provide proactive notification of actual or impending component failure alerts on critical components like CPU, Memory and HDD.		
17.	IDC Ranking	OEM should be ranked within Top 5 Companies, Worldwide Server Systems Unit Shipments, Market Share, and Growth in any Quarter of the year 2017. The bidder has to submit the relevant documents.		
18.	Warranty	5 years comprehensive warranty from OEM with onsite service support from the date of installation without any extra cost (Proof of proposed warranty from OEM must be enclosed)		

15. Form 9: Financial Proposal

SL. No.	Item	Quantity	Unit Cost (in Rs.) (b)	Taxes (in Rs.) (c)	Total Cost (in Rs.) (d = b + c)	Total Amount (in Rs.) (e = a x d)
1.	Pre-Loaded Desktop PC with 18.5" LED Monitor	2605				
2.	Pre-Loaded Laptop	41				
3.	Laser Printer	64				
4.	MFP	55				
5.	Multimedia Projector	60				
6.	2KVA Online UPS	1				
7.	5KVA Online UPS	20				
8.	10KVA Online UPS	127				
9.	1KVA Line Interactive UPS	15				
10.	ADF Scanner	2				
11.	Flatbed Scanner (Legal)	57				
12.	Database Server	1				
13.	Application Server	1				
14.	SR Server	1				
15.	42U (600x1000) with all Accessories	1				
16.	19.5" Wide OEM TFT, OEM Keyboard & OEM USB Optical mouse	1				
17.	KVM switch with minimum 4 port with necessary cables	1				
18.	20 mtr VGA cable with connector	60				
Total Cost						
Grand Total Cost with 5 year OEM warranty (Amount quoted in words) : - Rupees						

Authorized Signatory with Official Seal

NOTE :-

- Prices shall be quoted inclusive of all taxes, duties, freight and forwarding and cost of labour for installation.
- Printed brochures of items quoted should be enclosed.
- The bidder should mention the warranty period against all manufacturing defects.
- In case of any discrepancy between Unit Price & Total Price, the Unit Price will prevail.

THERE IS NO CHANGE IN RFP SCHEDULE