

Corrigendum

Reference: Tender No. Elec-2019/ACT- 1264 dated 15.02.2019 regarding purchase of ICT equipment for the office of the Chief Electoral Officer, Punjab and District Election Offices for upcoming Lok Sabha Election 2019.

Pre-bid meeting was held on 20.02.2019 and after discussion with the vendors / OEMs following clauses and specifications have been amended in the tender document:-

Clause No.	Tender Clause	Bidder request	Amendments
Section II 7.2 (g) i at page no. 8	The Bidder must be either Principal/ OEM Company itself or Authorized Dealer/ Distributor and also Authorized Service Provider of the Principal/ OEM company whose products the bidder would be supplying. Bidder should submit valid authorization certificate from Principal / OEM Company in this regard.	To remove Authorized Service Provider of the Principal/ OEM company from the clause	As per RFP
Section III 3.1 at page no. 11	The successful bidder selected through this tender for supply of items mentioned in the Section IV would Supply and Install the items within a period of two weeks in CEO office Chandigarh and three weeks in all the 22 District Election Offices of the State of Punjab.	The time for supply and installations of items may be increased to three weeks for CEO office and four weeks for the all 22 districts.	Clause is amended as: The successful bidder selected through this tender for supply of items mentioned in the Section IV would Supply and Install the items within a period of three weeks in CEO office Chandigarh and in all the 22 District Election Offices of the State of Punjab.
Section III 4.1 at page no. 12	The L1 bidder shall deposit security in the shape of FDR of 10% of the total value of work in the	Instead of FDR, PBG may be requested to deposit.	Clause is amended as: The L1 bidder shall deposit security in the shape of FDR / PBG of 10% of the total value

	prescribed Performa or in the shape of FDR in the favour of “The Chief Electoral Officer, Punjab” with 5 working days of Issue of Letter of Intent (LOI). The security deposit should be valid for warranty period + one month.		of work order in the favour of “The Chief Electoral Officer, Punjab” with 5 working days of Issue of Letter of Intent (LOI). The security deposit should be valid for warranty period + one month.
Section III 8.4 at page no. 14	The response time for attending the faults will be six hours after reporting complaint to the vendor through any communication mode. The vendor will rectify the faults within reasonable time (not more than 24 hours) failing which the vendor will arrange temporary replacements in next 24 clock hours. The services shall be provided Monday to Sunday during working hours of the department.	Time for attending the call may be increased from six hours to eight hours.	Clause is amended as: The response time for attending the faults will be eight hours after reporting complaint to the vendor through any communication mode. The vendor will rectify the faults within reasonable time (not more than 24 hours) failing which the vendor will arrange temporary replacements in next 24 clock hours. The services shall be provided Monday to Sunday during working hours of the department.
Section IV	Detail of technical specifications	Amendments in the specifications suggested by the bidders 1. Server (Rack Mount) a) PCI Slots : Server should support minimum 6 PCIe Gen 3 slots. b) OEM Certification: Gartner reports is not available after year 2016. 2. Desktop :	Revised Detail of technical specifications is enclosed as Annexure- 1

a) Chipset H370 is specific to a particular model.

b) Operating System Certification:

Microsoft Windows and Compatibility with Ubuntu 64 Bit/ Linux.

c) Monitor :
Resolution 1600 X 900 or above, IPS/TN/ TFT LCT Monitor

d) MET / UL & FCC Certification

3. Normal Printer: RAM upto 128 MB instead of 64 MB, duplex printing

4. Online Printer: 4.5 KW/ 5KVA , VAH: 15600 or above with flexibility of DC bus of minimum 48 Volt, IGBT based PWM technology. Efficiency > 91%,

5. Offline UPS: 1 KVA/ 600 Watt Offline UPS with minimum 30 minutes battery backup, minimum VAH: 336 and having overload facility of 110% with Five years Onsite Warranty (with One time batteries replacement)

6. HD projector: Upgrade the model to LED from DLP as is facing out.

		7. Video Conferencing Set: Some of the specifications were not generic.	
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Section IV
REVISED DETAILED TECHNICAL SPECIFICATIONS

Office of Chief Electoral Officer, Punjab invites bids from the established, reputed and experienced firm or consortium of firms for the supply of following ICT equipments as per the following details:

S. No.	Item Type	Specifications
1.	Server (Rack Mount)	<p>Processor : Server should be populated with 2 x Intel Xeon Gold 5118 Processor (Skylake-SP) – 12 core, 2.30GHz, 16.5 MB L3 Cache to make a total of 24 cores.</p> <p>Chipset : Intel C620 series chipset Or Equivalent</p> <p>Processor interconnect : Two Intel Ultra Path Interconnect (UPI) links, 10.5 GT/s</p> <p>Memory : Server should be configured with 512 GB memory (8 * 64 GB) 2400 MHz DDR4 Registered ECC DIMMs, Server should support RDIMM /LRDIMM types, speeds up to 2666MT/s, 3TB max</p> <p>DIMM Slots : Should support Up to 12 NVDIMM, 192 GB Max : Should support registered ECC DDR4 DIMMs only : Server should support 24 DIMM Slots for complete system</p> <p>Memory Property : DDR4 Registered ECC Memory</p> <p>Hard Disk Drives : 6 * 1.8TB SAS 10K RPM Drive 2.5in Hot Plug HDD. Server should support 2.5", 3.5" - 12Gb SAS and 6Gb SATA drives</p> <p>RAID Controller : Integrated 12Gbps SAS hardware RAID Controller supporting RAID 0, 1, 5, 6, 10, 50, 60 with min. 1GB Cache.</p> <p>Boot optimized SSDs : Boot Optimized Storage Subsystem should be supported using latest M.2 Drives.</p> <p>Optical Drive : Internal / External DVD-RW</p> <p>Graphics Controller : Integrated 16MB Memory</p> <p>Gigabit Ethernet Ports : Four Gigabit Ethernet ports + Dual Port 10Gb Base -T Network Adaptor</p>

S. No.	Item Type	Specifications
		<p>PCI Slots : Server should support minimum 6 PCIe Gen 3 slots.</p> <p>Redundant Power Supply : Server to be configured with 90% Plus efficient Redundant Power Supplies</p> <p>Redundant Cooling Fans : Hot-swap and redundant cooling Fans to be configured in the system</p> <p>Form Factor : 2U or more</p> <p>High Availability : Server should have Hot-plug Drives, Hot-plug Redundant Fans, Hot-plug Redundant Power Supplies, HW based RAID BOSS (M.2) & should support redundant Hypervisor SD cards.</p> <p>Security : Power-on password, Serial interface control, Administrator's password, UEFI, Should support multiple customizable user accounts on management port and SSL encryption, Should also support directory services integration, TPM 1.2</p> <p> : TPM 1.2/2.0 optional, Cryptographically signed firmware, BIOS should support authentication of each component that is executed during the boot process using certificates, BIOS should have the ability to disable the power button function.</p> <p>Server Management : System management should help in managing server in physical, virtual, local and remote environment, operating in - band or out of band, with or without a system management software agent. It should also integrate with and connects to third party system management solution so that we can have single point of control.</p> <p>Warranty : Five Year 24*7 Support from OEM</p> <p>OS : Server should be offered with Windows Server 2016 Standard 64 Bit, with Windows 2012 R2 downgrade media ,</p> <p>OS Support : Windows Server 2016 Standard 64 Bit, Windows 2012 R2, Ubuntu, RedHat, SUSE Linux, KVM Hypervisor latest version, VMWare ESX / ESXi latest version, KVM</p> <p>Industry standard Compliance : ACPI 2.0, Microsoft Logo certifications, USB 2.0 & 3.0 Support, PCIe 3.0, WOL support, Energy Star, UL and FCC, RoHS Compliant</p>

S. No.	Item Type	Specifications
		<p>OEM Certification : The OEM of the server should be listed atleast once in 2015, 2016 published reports in the leader quadrant of Gartner reports for Rack/ blade server/ modular server.</p>
2.	Desktop	<p>Processor : Intel i7 Processor, 8th Generation</p> <p>Chipset : Intel Chipset H370/ B360/ Q370 or equivalent chipset</p> <p>Graphic Type : Integrated</p> <p>Graphics : Intel HD</p> <p>Operating System Certification : Microsoft Windows and compatibility with Ubuntu 64 bit / Linux</p> <p>OS Preloaded : Windows 10 Professional with Recovery CDs with all necessary plug-ns/ utilities and driver software, bundled in CD/DVD Media</p> <p>Antivirus : Licensed Total security antivirus and the antivirus will be maintained by the vendor till the system in under warranty</p> <p>Office Suite : Licensed MS Office Suite Standard (Latest Version)</p> <p>Hard Disk : 1000 GB @ 7200 rpm</p> <p>RAM : 16 GB, DDR-4, 2666 MHz , Expandable upto 32 GB</p> <p>DIMM Slots : 2 or above numbers.</p> <p>Cabinet : Mini Tower</p> <p>Network Connectivity : Dual band 1X1 802.11ac Wireless + Ethernet ports of minimum 10/100/1000 Mbps</p> <p>Keyboard : 104 Keys OEM keyboard</p> <p>Monitor : 19.5" or higher , Resolution : 1400X900 or above, IPS/ TN/ TFT LCD Monitor with TCO 7.0 Certified</p>

S. No.	Item Type	Specifications	
		Ports Mouse DVD R/W Warranty Speaker ISO Certification Power Efficiency ROHS Compliance MET / UL & FCC Certification	: USB 3.1 - 2 or above, USB 2.0 - 2 or Above, HDMI – One : Optical : DVD writer dual layer : Minimum for 5 Year : inbuilt speakers : 9001-2015 : 85% or above : Yes : Yes
3.	Heavy Duty Printers	Color Connectivity Print Technology Printing Print Speed Paper handling Input Duty Cycle Warranty RAM FPOT Additional toners	: Mono LaserJet Black & White : 1 Gigabit/Fast Ethernet 10/100/1000 Base TX Network, Hi-Speed USB 2.0 or Higher : Laser : Duplex (automatic) : Minimum 70 PPM : Minimum Three Trays (with paper capacity of minimum 100 pages for multipurpose feeder and minimum 500 pages for sheet input feeder) : 3,00,000 pages or above. : Five years Onsite : 1GB : < 10 Seconds : + Additional 2 original toner with minimum yield of 10000 papers

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4.	Normal Printers	Monochrome laser printer A4 – 25 PPM, RAM upto 128 MB, duplex, FPOT < 9 sec. with Five year onsite warranty + Additional 2 original toner with minimum yield of 1500 papers
5.	Heavy Duty Scanner	A3 Size, ADF with size of minimum 100 pages and with minimum 60 PPM for Simplex, 120 IPM for Duplex and with Daily Duty Cycle (DDC) 10,000 pages.
6.	Online UPS	4.5 KW / 5 KVA UPS with minimum 4 hours battery backup, Covered Battery Rack VAH: 15600 or above with flexibility of DC bus of minimum 48 Volt, IGBT based PWM technology. Input Power factor ≥ 0.99 and Output Power factor = 0.9, Single Phase Input / Output. Efficiency > 91%, UPS OEM should be ISO 9001:2008, ISO-14001 & OHSAS-18001 with five year OEM onsite warranty + warranty of two year for batteries, ROHS Certified
7.	Offline UPS	1 KVA/ 600 Watt Offline UPS with minimum 30 minutes battery backup, minimum VAH: 336 and having overload facility of 110% with Five years Onsite Warranty (with One time batteries replacement) Offline UPS with minimum 30 minutes battery backup, minimum VAH: 336 and having overload facility of 110% with Five years Onsite Warranty (with One time batteries replacement)
8.	HD Projector	Projection System : LED Native Resolution : 1080p (1920 x 1080) Brightness : 5000 to 6000 ANSI Lumens Contrast Ratio : 10000:1 (Full on/Full off) Display Color : Full 1.07 Billion Colors Palette Lens : F= 2.48~2.81, f= 24.1~36.15mm Aspect Ratio : Native 16:9 (5 aspect ratio selectable) Throw Ratio : 1.62 ~2.43 (55.7"@ 6.6 Feet) Image Size Diagonal : 28" ~ 500" Zoom Ratio : 1.5x Lamp Life (Normal/Eco Mode) : 4000/5000 hours Keystone Adjustment : 2D, Vertical & Horizontal +/- 30 degrees

S. No.	Item Type	Specifications	
		Projection Offset Resolution Support Horizontal Frequency Vertical Scan Rate HDTV Compatibility Video Compatibility Interface Dimensions (WxHxD) Weight Power Supply Power Consumption Audible Noise On-Screen Display Languages Picture Mode Accessories	: V=125%±5%, H=40%±5% : VGA (640x480) to WUXGA (1920x1200) : 31-92 kHz : 23-85 Hz : 480i, 480p, 576i, 576p, 720p, 1080i, 1080p : NTSC, PAL, SECAM, PAL 60 : <ul style="list-style-type: none"> • Computer In (D-Sub 15pin) x1 • Monitor Out (D-Sub 15 pin) x1 • HDMI (v1.3) x1 • Composite Video In (RCA) x1 • S-Video In (Mini DIN 4pin) x1 • Component Video in x1 (Shared with D-sub 15pin) • Audio In (Mini Jack) x1 • Audio Out (Mini Jack) x1 • USB (Type Mini-B) x1 • (Download) LAN (Rj45) x1 • (LAN Control) DC 12V Trigger (3.5mm Jack) X1 • RS232 (DB-9-pin) : x1 17.44" x 13.98" x 6.57" (443 x 355 x 167 mm) : ≤29 lbs (13 kgs) : AC 100 to 240 V, 50/60 Hz 857W (Typical), Standby < 1W : 41/37/38/35 dBA (2 Lamp Normal/2 Lamp Eco/1 Lamp Normal/1 Lamp Eco) : English : Cinema/Dynamic/Presentation/sRGB/User 1/User 2 : Remote Control w/ Battery, Power Cord, User Manual CD, Quick Start Guide, Warranty Card, VGA (D-sub 15 pin) Cable, Universal Ceiling Mount Kit, Spare Lamp Kit
9.	Video Conferenci	Application requirements	Supported operating systems Windows 7, 8.1, 10, Mac OS 10.12, 10.13, 10.14, Support for

S. No.	Item Type	Specifications
	ng System	<p>standard audio and video device drivers UAC 1.0 Audio, UVC 1.1/1.5 Video ,HID 1.11</p> <p>Power requirements 12VDC/5A @ 100~240VAC, 50/60 Hz</p> <p>Package Includes Remote control with 2 AAA batteries, Power adapter, 5m USB 2.0 cable (Type-C to Type-A), Wall mount kit, Setup sheet (One additional Microphone with expansion and Remote Control)</p> <p>Optional accessories Expansion microphone, Display mount</p> <p>Camera 90-degree above FOV, UHD 2160p (4K) capture resolution, Automatic people framing & speaker tracking ,10x HD zoom or above / EPTZ ,2 or above camera pre-sets</p> <p>Audio Acoustic Clarity technology for full-duplex conversations, acoustic echo cancellation and background noise suppression</p> <ul style="list-style-type: none"> • Noise Block technology • Acoustic Fence technology • Mute/unmute controls • Stereo microphones: <ul style="list-style-type: none"> ○ 6-element beam forming microphone array ○ Minimum 15ft pickup range ○ 120Hz–16kHz frequency response • Stereo speakers: <ul style="list-style-type: none"> ○ 100Hz–20KHz frequency response ○ Output = 90dB @ 0.5 <p>Interfaces</p> <ul style="list-style-type: none"> • 1 or more USB 3.0 Type-C port (with 2.0 compatibility) • Power connector • Optional external microphone • 3.5mm stereo Audio In • Kensington security lock • 802.11ac Wi-Fi wireless networking for manageability; IEEE 802.11a/b/g/n compatible • Bluetooth 4.2 • RJ 45 ethernet connectivity <p>Application Compatibility and integration Compatible with any application that supports standard USB audio and video drivers, including but not limited to:</p> <ul style="list-style-type: none"> • Microsoft Skype for Business • Microsoft Skype • Microsoft Teams • Zoom • LogMeIn GoToMeeting® • BlueJeans Network • Google Hangouts™ communication platform • Amazon Chime

S. No.	Item Type	Specifications
		<ul style="list-style-type: none"> • Cisco Webex® • Vidyo Desktop™ • Broadsoft • Polycom Real Presence Desktop <p>Manageability (via Wi-Fi)</p> <ul style="list-style-type: none"> • Companion App (running on Win/Mac PC connected to device) • Real Presence Resource Manager • Device Management Service <p>Warranty Information</p> <p>5-year limited hardware warranty</p> <p>Environmental</p> <ul style="list-style-type: none"> • Operating temperature: 32–104°F (0–40°C) • Relative humidity: 5–95%, noncondensing • Storage temperature: -13–160°F (-25°–70°C)
10.	Software	CorelDraw Graphic Suite 2018
11.	Laptops	<p>Processor : Core i7, 8th generation 1.8 GHz or above</p> <p>RAM : 16 GB DDR4 upgradable upto 32 gb</p> <p>Hard Disk : 1 TB 5400 RPM</p> <p>Display Screen : HD with 15.6”</p> <p>Power backup : Minimum 4 hours</p> <p>Accessories : HD Webcam, Wi Fi, Bluetooth, RJ 45 Ethernet connector with interface 10/100/1000 NIC, HDMI/ Display port, 4 USB port (1 USB type C, 1 USB 2.0, 2 USB 3.1 Gen 1), laptop bag and HDMI to VGA convertor</p> <p>Operating System : Microsoft Windows 10 Professional 64 bit along with media</p> <p>Other Software’s : Latest Total security Anti- Virus, MS office Standard latest version.</p> <p>Warranty : Five year onsite Warranty</p> <p>ROHS Compliance : Yes</p> <p>MET / UL & FCC Certification : Yes</p>