



Prasar Bharati
(India's Public Service Broadcaster)
Central Archives, Akashvani Bhawan,
New Delhi-110001
Email:- archives@prasarbharati.gov.in

No. PBCA/BIND-IT/(01)2025-26

Dated: 25/08/2026

Subject: Technical specification for supply, installation, testing, and commissioning (SITC) of High-performance IT infrastructure for media processing, graphics and editorial workflows under BIND scheme at Central Archives, Prasar Bharati.

Feedback is invited from OEMs and their authorized dealers/sellers/bidders on the Technical specification for supply, installation, testing, and commissioning (SITC) of High-performance IT infrastructure for media processing, graphics and editorial workflows under BIND scheme at Central Archives, Prasar Bharati. A copy of technical specifications is enclosed herewith for reference.

Prospective bidders/OEMs are requested to provide the following:-

- a) Comments/feedback on the technical specifications
- b) Budgetary quote in the format at Annexure
- c) Ratio/percentage of Make In India (MII) components in their prospective offer.

Response may be furnished through email by the bidders by 11/09/2026 on to the following e-mail address:

To: archives@prasarbharati.gov.in
Cc: ravikantsingh@prasarbharati.gov.in

Encl.: Technical Specifications


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S.No.	ITEMS	Make	Model	QTY	Unit	Unit Price (₹)	Price (₹)
1	Desktop Computer System			60	Nos.		
2	Laptop computer system (Windows based)			15	Nos.		
3	Online Storage (NAS)-480 TB			01	No		
4	Firewall			01	No		
5	Network Switch-24 Port Managed Layer 3 (Non-POE)			04	Nos.		
6	Network Switch-24 Port layer 2 Unmanaged (Non-POE)			06	Nos.		
7	Wireless Controller			01	No		
8	Wireless Access Point (Wall Mount)			20	Nos.		
9	24-Port Unmanaged PoE Switch			04	Nos.		
10	Equipment Rack 42 U with all accessories			01	No		
11	Equipment Rack 8 U with all accessories			03	Nos.		
12	Cat-6A UTP Patch Cord 2 Mtrs.			200	Nos.		
13	Cat 6A UTP Cable (1 roll= 305 Mtr)			20	Nos.		
14	Single Port Faceplate/Access Points			200	Nos.		
15	UPS - 10 KVA			03	Nos.		
16	UPS - 1 KVA			60	Nos.		
17	Optical Fiber Cable			300	Meters		
18	Laying of cable including casing, conducting and capping (Approx.)			4000	Meters		
19	OPTIONAL ITEM Comprehensive Annual Maintenance Charges in respect of the equipment supplied (SN 1 to 18) for 4 th and 5 th year (2 year after the lapse of 3 years warrantee period) (to be counted for financial/ commercial evaluation)			Lump sum			
TOTAL(₹)							
GST(₹)							
Grand Total(₹)							
Authorized Signatory: Name & Designation:							
Seal of the Company Date:							

New Delhi, 24/08/2026

No. PBCA/BIND-IT(01)-2025-26(Computer No. 317199)

Technical specification for supply, installation, testing, and commissioning (SITC) of High-performance IT infrastructure for media processing, graphics and editorial workflows under BIND scheme at Central Archives, Prasar Bharati.

1. OBJECTIVE

Prasar Bharati intends to establish a high-performance IT ecosystem at the Central Archives to support advanced media processing, high-end graphics rendering and collaborative editorial workflows. This infrastructure will provide a scalable, low-latency environment designed to accelerate content creation, streamline post-production and ensure the seamless management of large-scale digital assets at Central Archives, Prasar Bharati.

2. SCOPE OF WORK

The scope of work shall comprise the Supply, Installation, Testing and Commissioning (SITC) of all hardware, software, licenses, accessories, passive components and associated infrastructure required for a complete and operational solution. The scope shall include but shall not be limited to the following:

2.1 Computing Infrastructure

Supply, installation and commissioning of enterprise-grade desktop workstations, laptops and associated peripherals suitable for professional media production, archival operations, graphics processing, office productivity and administrative functions.

2.2 Storage (NAS) Infrastructure

Supply and deployment of centralized Network Attached Storage (NAS) solution with adequate storage capacity, redundancy, data protection, scalability and management capabilities for secure storage and retrieval of digital media assets.

2.3 Network Infrastructure

Supply, installation, configuration, integration and commissioning of enterprise-class network infrastructure comprising managed switches, access switches, wireless LAN controllers, wireless access points, structured cabling, optical fibre backbone, network racks, patch panels and associated passive components.

2.4 Network Security

Supply, installation, configuration and commissioning of enterprise-grade Next Generation Firewall (NGFW) providing secure network access, threat protection, intrusion prevention, VPN services, application visibility, user authentication and centralized security management.

2.5 Power Infrastructure

Supply, installation, testing and commissioning of UPS systems, including batteries, accessories, interconnections and power distribution necessary for uninterrupted operation of the installed infrastructure.

2.6 Structured Cabling System

Supply and laying of structured LAN cabling using Category CAT 6A copper cabling and optical fibre backbone, including termination, labelling, testing, certification, patch cords, faceplates, conduits, cable management accessories and documentation.

2.7 Equipment Racks

Supply and installation of equipment racks complete with cable management accessories, power distribution units (PDUs), cooling arrangements (where applicable), earthing and mounting accessories.

3. TECHNICAL SPECIFICATIONS:

3.1 Desktop Computer – 60 Nos.

S.No	Parameter	Specification
3.1.1	Form Factor	All-in-One Desktop
3.1.2	Display Size	60.5 cm (23.8") Full HD (1920 × 1080) IPS Anti-glare
3.1.3	Processor	Intel Core i7 13 th Gen or AMD Ryzen 7
3.1.4	Memory (RAM)	32 GB DDR4 (expandable to 16 GB GB)
3.1.5	Storage	512 GB NVMe SSD
3.1.6	Graphics	Integrated Intel UHD/Iris Xe or AMD Radeon Graphics
3.1.7	Operating System	Windows 11 Pro 64-bit, Pre-installed and Licensed
3.1.8	Camera	Integrated Full HD (1080p) webcam with privacy shutter and Dual Digital Microphones
3.1.9	Audio	Built-in stereo speakers and microphone
3.1.10	Wireless	Wi-Fi 6/6E, Bluetooth 5.2 or higher
3.1.11	Ethernet	Gigabit LAN (RJ-45)
3.1.12	Ports	4–6 USB ports (USB 3.2, USB-C, USB 2.0), HDMI-out
3.1.13	Keyboard & Mouse	Wired or wireless USB keyboard and mouse
3.1.14	Power Supply	External AC adapter
3.1.15	Security	TPM 2.0, BIOS Security, Secure Boot
3.1.16	Compliance	Energy Star/BEE, EPEAT Gold India, FCC or similar certification valid in India, UL/equivalent BIS
3.1.17	Warranty	3 Years Onsite OEM Warranty
3.1.18	OEM ISO	27001, 9001, 14001, 45001

3.2 Laptop computer system (Windows based) -15 Nos.

S.No.	Parameter	Specification
3.2.1	Processor	AMD Ryzen 7 or Intel Core i7 (14th Gen or higher)
3.2.2	Memory (RAM)	32GB DDR5 (minimum 4800 MHz)
3.2.3	Storage	1TB NVMe PCIe Gen4 SSD (expandable)
3.2.4	Graphics	NVIDIA GeForce RTX 4070 (Minimum 12 GB GDDR6X VRAM)
3.2.5	Display	16" QHD / QHD+ (2560×1440 or 2560×1600), 144Hz–240Hz

3.2.6	Battery Life	6 hours
3.2.7	Ports	USB-C (Thunderbolt 4), HDMI 2.1, USB-A, Ethernet, Audio Jack
3.2.8	Operating System	Windows 11 Pro (64-bit)
3.2.9	Wireless Connectivity	Wi-Fi 7 + Bluetooth 5.3
3.2.10	Keyboard	Backlit RGB keyboard (per-key optional)
3.2.12	Audio	Dual speakers with Dolby Atmos support
3.2.13	Webcam	1080p HD webcam with privacy shutter
3.2.14	Security	TPM 2.0, Fingerprint Reader / IR Camera (optional)
3.2.15	Compliance	Energy Star/BEE, EPEAT Gold India, FCC or similar certification valid in India, UL/equivalent BIS
3.2.16	Warranty	3 Years Onsite OEM Warranty

3.3 Online Storage (NAS) Rack mount- 1 No

S.No.	PARAMETER	Specification
3.3.1	NAS CORE	Enterprise-Class NAS (Network Attached Storage), MOUNT: Rack-Mount Form factor: 4U, 24-bay Controllers: 2 × redundant controllers Drives: 24 × 20 TB enterprise 12 Gb/s SAS/NL-SAS Raw capacity: 480 TB RAID: RAID 6 Hot-spare: Distributed spare capacity / equivalent OEM protection NAS protocols: SMB 3.x, NFS Host network: 25 GbE SFP28 Cache: Protected write cache Power: Dual (1+1) redundant hot-swappable PSU Cooling: Redundant fans
3.3.2	STORAGE	i. RAW CAPACITY: 480 TB ii. HDDs: 20TBx24 Nos enterprise-class HDDs. iii. RAID PARITY: 2x20TB iv. The system shall support online storage pool expansion and online volume expansion.
3.3.2	NAS PROTOCOLS	SMB/NFS/AD/LDAP
3.3.3	INTERFACE	25 GbE SFP28 host interfaces/12 Gb/s SAS
3.3.4	SUPPORTED DRIVES	20 TB Enterprise SAS HDD, 12 Gb/s, 7,200 RPM, CMR
3.3.5	PROCESSOR	Intel Xeon D 4-Core or Higher Processor
3.3.6	CACHE MEMORY	4U 24-bay: Default DDR4 16GB, up to 384GB
3.3.7	MEMORY	Up to 512 GB

	EXPANDABILITY	
3.3.11	NETWORK	Minimum 8 × 10GbE SFP+ onboard
3.3.12	EXPANSION	PCIe Gen 3 ×8 expansion slots
3.3.14	FILE PROTOCOLS	SMB/CIFS, NFS, FTP, iSCSI, Fibre Channel
3.3.15	STORAGE FEATURES	Thin Provisioning, SSD Cache, Auto Tiering
3.3.16	DATA PROTECTION	Snapshot, Asynchronous/Synchronous Replication
3.3.17	SECURITY	SSL, SED, WORM, RBAC, Windows ACL
3.3.18	MANAGEMENT	Web UI/ Active Directory/LDAP/CLI/API
3.3.19	CONNECTIVITY	SFP28 optics/DAC/AOC
3.3.20	INTEGRATION	Network/AD/NAS integration
3.3.21	CABLES	Rack rails/power/data cables
3.3.22	WARRANTY	3 years Onsite OEM

3.4 Firewall -1 No.

S. No.	Parameter	Specification
3.4.1	Firewall Type	Next-Generation Rack mounted Firewall
3.4.2	Firewall Throughput	Minimum 20 Gbps
3.4.3	IPS Throughput	Minimum 4 Gbps
3.4.4	NGFW Throughput	Minimum 3 Gbps
3.4.5	Threat Protection Throughput	Minimum 2.5 Gbps
3.4.6	Concurrent Sessions	Minimum 1.5 Million
3.4.7	New Sessions/sec	Minimum 45,000
3.4.8	IPsec VPN Throughput	Minimum 13 Gbps
3.4.9	SSL-VPN	Supported
3.4.10	Interfaces	Minimum 2 × GE RJ45 WAN, 2 × GE RJ45 DMZ, 18 × GE RJ45 LAN or equivalent
3.4.11	SFP Interfaces	Minimum 4 × GE SFP
3.4.12	High Availability	Active-Active and Active-Passive HA
3.4.13	Firewall Features	Stateful inspection, NAT, PAT, VLAN, IPv4/IPv6, Policy-based routing
3.4.14	Security Features	IPS, Application Control, Antivirus/Anti-Malware, Web Filtering, DNS Filtering, Anti-Botnet and Anti-Spam
3.4.15	VPN	IPsec VPN, SSL VPN, site-to-site and remote-access VPN
3.4.16	SD-WAN	Integrated SD-WAN with application-aware routing and link monitoring
3.4.17	Authentication	Local database, LDAP, RADIUS, TACACS+ and 2FA/MFA support
3.4.18	Management	Web-based GUI, CLI and centralized management support

3.4.19	Logging & Monitoring	Real-time monitoring, traffic/security logs, reporting and alerting
3.4.20	Security Updates	Security/IPS/AV/Web-filter updates through OEM-supported subscription
3.4.21	IPv6	Full IPv6 firewall, routing and security feature support
3.4.22	Power Supply	Internal AC power supply, dual power supply preferred for redundancy
3.4.23	Warranty	3 Years Onsite OEM Warranty

3.5 Network Switch 24-Port Layer 3 Managed (Non-POE) - 6 Nos.

S.No.	Parameter	Specification
3.5.1	Switch Type	Layer 3 Managed, Non-PoE
3.5.2	Ports	24 × 1000 Mbps RJ45 Gigabit Ethernet
3.5.3	Uplink Ports	Minimum 4 × 10G SFP/SFP+ uplink ports
3.5.4	Switching Capacity	Minimum 128 Gbps
3.5.5	Packet Forwarding Rate	Minimum 95 Mpps
3.5.6	MAC Address Table	Minimum 16K MAC addresses
3.5.7	VLAN Support	Minimum 4,000 VLANs (IEEE 802.1Q)
3.5.8	Layer 3 Features	Static Routing, RIP v1/v2, OSPF, VRRP, IPv4 & IPv6 Routing
3.5.9	Support	Full Dual Stack (IPv4/IPv6)
3.5.10	Link Aggregation	IEEE 802.3ad (LACP)
3.5.11	QoS	802.1p, DSCP, 8 Priority Queues
3.5.12	Security	ACL, 802.1X Authentication, Port Security, DHCP Snooping, IP Source Guard, Dynamic ARP Inspection
3.5.13	Multicast	IGMP Snooping v1/v2/v3, MLD Snooping
3.5.14	Management	Web GUI, CLI, SSH, Telnet, SNMP v1/v2c/v3, Syslog, RMON
3.5.15	Network Standards	IEEE 802.3, 802.3ab, 802.3u, 802.3x, 802.1Q, 802.1p, 802.1D, 802.1w, 802.1s
3.5.16	Mounting	19-inch Rack Mountable (1U)
3.5.17	Power Supply	Internal AC Power Supply (100–240V AC)
3.5.18	Cooling	Intelligent Fanless (depending on model)
3.5.19	Warranty	3 Years OEM Comprehensive Warranty with On-site Support
3.5.20	Mandatory Compliance	Layer 3 Managed Switch shall comply with TEC MTCTE, BIS/CRS, WPC/ETA, RoHS, and all other prevailing Government of India statutory, regulatory and safety requirements.

3.6 Network Switch-24 Port Layer 2 Unmanaged (Non POE)- 6 Nos.

S.No.	Parameter	Specification
3.6.1	Switch Type	Layer 2 Unmanaged Ethernet Switch
3.6.2	Ports	Minimum 24 × 1000 Mbps RJ-45 Auto-Negotiating Ports
3.6.3	PoE	Non-PoE
3.6.4	Uplink Ports	Minimum 2 × 1G SFP Uplink Ports (Preferred) or 24 RJ-45 Ports

3.6.5	Switching Capacity	Minimum 48 Gbps
3.6.6	Packet Forwarding Rate	Minimum 35.7 Mpps
3.6.7	MAC Address Table	Minimum 8K Entries
3.6.8	Packet Buffer	Minimum 4 MB
3.6.9	Jumbo Frame Support	Up to 9 KB
3.6.10	Switching Method	Store-and-Forward
3.6.11	Flow Control	IEEE 802.3x Flow Control
3.6.12	Ethernet Standards	IEEE 802.3, 802.3u, 802.3ab, 802.3x
3.6.13	Auto Features	Auto MDI/MDIX and Auto-Negotiation
3.6.14	Mounting	Rack Mountable (Rack Mount Kit Included)
3.6.15	Power Supply	Internal 100–240V AC, 50/60 Hz
3.6.16	LED Indicators	Power, Link/Activity, Speed
3.6.17	Fan	Fanless or Low-Noise Design
3.6.18	Operating Temperature	0°C to 50°C (Minimum)
3.6.19	Warranty	3 Years OEM Warranty
3.6.20	Mandatory Compliance	Layer 2 Unmanaged Switch shall comply with TEC MTCTE, BIS/CRS, WPC/ETA, RoHS, and all other prevailing Government of India statutory, regulatory and safety requirements.

3.7 Wireless Controller-1 No

S.No.	Parameter	Specification
3.7.1	Product Type	Enterprise Wireless LAN Controller (Hardware Appliance or Virtual Controller)
3.7.2	Deployment	Centralized management of Wireless Access Points
3.7.3	Supported APs	Minimum 100 APs (expandable through licenses)
3.7.4	Maximum Clients	Minimum 2,000 concurrent wireless clients
3.7.5	Wi-Fi Standards	IEEE 802.11a/b/g/n/ac/ax (Wi-Fi 6), compatible with Wi-Fi 7 APs
3.7.6	Management	Web GUI, CLI, SSH, SNMP v2/v3
3.7.7	Authentication	802.1X, WPA2/WPA3 Enterprise, RADIUS, TACACS+
3.7.8	Guest Access	Built-in Guest Portal / Captive Portal
3.7.9	Roaming	Fast Secure Roaming (802.11r), 802.11k, 802.11v
3.7.10	RF Management	Automatic Channel & Power Optimization
3.7.11	Security	Rogue AP Detection, Wireless IDS/IPS, DoS Protection
3.7.12	High Availability	Active-Standby / Controller Redundancy
3.7.13	Network Features	VLAN, QoS, IPv4/IPv6, L2/L3 Roaming
3.7.14	Ports	Minimum 2 × 10G SFP+ and 4 × 1G RJ45
3.7.15	Power Supply	Dual Redundant Hot-Swappable Power Supply
3.7.16	Mounting	1U Rack Mountable
3.7.17	Compliance	CE, FCC, RoHS, BIS (where applicable)
3.7.18	Warranty	3 Years Comprehensive Warranty with OEM Support

3.8 Wireless Access Point (Wall Mount) - 20 Nos.

S.No.	Parameter	Specification
3.8.1	Device Type	Enterprise Indoor Wireless Access Point (Wall Mount)
3.8.2	Wi-Fi Standard	IEEE 802.11ax (Wi-Fi 6) or higher
3.8.3	Frequency Bands	Dual Band 2.4 GHz & 5 GHz
3.8.4	Radio Configuration	Minimum 2×2 MU-MIMO with OFDMA
3.8.5	Maximum Wireless Speed	Minimum 1.7 Gbps Aggregate Throughput
3.8.6	Ethernet Port	1 × 1000 Mbps Gigabit RJ-45 (PoE Supported)
3.8.7	Power	IEEE 802.3af/at PoE and DC Power Adapter (optional)
3.8.8	Security	WPA2/WPA3 Enterprise & Personal, 802.1X Authentication, MAC Filtering
3.8.9	Management	Standalone, Controller-based and Cloud Management Support
3.8.10	Roaming	Fast Roaming (802.11k/v/r)
3.8.11	SSID Support	Minimum 8 SSIDs per Radio
3.8.12	Mounting	Wall Mounting Kit Included
3.8.13	Operating Temperature	0°C to 45°C or better
3.8.14	Certification	TEC/WPC Approved, CE, FCC, RoHS, BIS (where applicable)
3.8.15	Warranty	3 Years Comprehensive Onsite Warranty

3.9 24-Port Unmanaged PoE Switch -04 Nos.

S.No.	Parameter	Specification
3.9.1	Switch Type	Layer 2 Unmanaged Gigabit Ethernet PoE Switch
3.9.2	Ports	24 × 1000 Mbps RJ45 PoE Ports + 2 × Gigabit Uplink RJ45 Ports + 2 × 1G SFP Uplink Ports (or equivalent)
3.9.3	PoE Standard	IEEE 802.3at (PoE/PoE+)
3.9.4	PoE Budget	Minimum 370 W Total PoE Power Budget
3.9.5	Per Port PoE Output	Up to 30 W per PoE Port
3.9.6	MAC Address Table	Minimum 8K MAC Addresses
3.9.7	Flow Control	IEEE 802.3x Flow Control
3.9.8	Network Standards	IEEE 802.3, 802.3u, 802.3ab, 802.3x, 802.3af, 802.3at
3.9.9	Forwarding Mode	Store-and-Forward
3.9.10	LED Indicators	Power, System, Link/Activity, PoE Status
3.9.11	Protection	Surge Protection (Minimum 4 kV), Overload & Short Circuit Protection
3.9.12	Power Supply	Internal 100–240V AC, 50/60 Hz
3.9.13	Mounting	Rack Mountable (1U) with mounting kit
3.9.14	Cooling	Smart Cooling Fan

3.9.15	Certifications	CE, FCC, RoHS, BIS (where applicable)
3.9.16	Warranty	3 Years OEM Warranty

3.10 Equipment Rack 42 U- 1 No

S.No	Parameter	Required Specification
3.10.1	Rack Type	42U (minimum) 19-inch standard, floor-standing network/server rack, Robust steel construction with powder-coated finish
3.10.2	Mounting Rails	Front and rear 19-inch adjustable vertical mounting rails, clearly marked U positions
3.10.3	Depth	Minimum 1000 mm, suitable for server, NAS and networking equipment
3.10.4	Front Door	Lockable perforated/mesh door for adequate ventilation
3.10.5	Rear Door	Lockable split/perforated or mesh rear door
3.10.6	Side Panels	Removable and lockable side panels
3.10.7	Cable Management	Vertical and horizontal cable-management provisions with suitable cable entry points
3.10.8	Ventilation	Provision for roof-mounted fan tray, minimum 2 fans
3.10.9	Power Distribution	Provision for rack-mounted PDU with proper cable routing
3.10.10	Accessories	Required cage nuts, mounting screws, cable managers and blanking panels to be supplied

3.11 Equipment Rack 12U with all accessories- 3 Nos.

S.No	Parameter	Specification
3.11.1	Rack Type	12U Wall-Mount Network/Server Rack
3.11.2	Construction	19-inch, 4-post, steel
3.11.3	Depth	Minimum 600 mm preferred
3.11.4	Mounting	Adjustable front & rear mounting rails
3.11.5	Door	Lockable front glass/mesh door
3.11.6	Side Panels	Removable, lockable
3.11.7	Cooling	Ventilated/mesh construction; provision for 2–4 fans
3.11.8	Cable Management	Top/bottom cable entry with vertical/horizontal cable management
3.11.1	PDU	12U Wall-Mount Network/Server Rack

3.12 Cat-6 A UTP Patch Cord 2 Meter- 200 Nos.

S.No.	Parameter	Requirement
3.12.1	Category	Cat-6A, UTP
3.12.2	Length	2 Meters
3.12.3	Conductor	100% bare copper, stranded
3.12.4	Bandwidth	500 MHz
3.12.5	Connector	RJ-45, 8P8C, factory terminated
3.12.6	Performance	Supports 10GBASE-T Ethernet

3.13 Cat 6A UTP Cable (1 Roll-305 Meter) -20 Nos.

S.No	Parameter	Requirement
3.13.1	Type	Cat 6A U/UTP, 4-pair, 23 AWG solid bare copper conductor
3.13.2	Bandwidth	Minimum 500 MHz, supporting 10 Gbps Ethernet.
3.13.3	Conductor	100% annealed bare copper; CCA/CCS not acceptable.
3.13.4	Jacket	Low-smoke, flame-retardant LSZH/FR-rated jacket, as applicable
3.13.5	Performance	Compliant with ANSI/TIA-568.2-D and ISO/IEC 11801.
3.13.6	Compliance	IEC 61156-5, RoHS, with third-party certification such as UL/ETL.

3.14 Single Port Faceplate. – 200 Nos.

S.No.	Parameter	Specification
3.14.1	Type	1-Port, 1-Gang Cat 6A RJ45 Keystone Faceplate, flame-retardant ABS/PC, with shutter and labeling provision.
3.14.2	Compliance	Suitable for standard wall box and compliant with ISO/IEC 11801, ANSI/TIA-568.2-D and RoHS.

3.15 UPS-10 KVA- 3 Nos.

S.No.	Parameter	Specification
3.15.1	Main Input Voltage	230 V AC 1 phase
3.15.2	Input voltage	220 V/ 240 V
3.15.3	Input Voltage Limits	110-300 V
3.15.4	Network frequency	40 to 70 Hz auto sensing
3.15.5	Output voltage	230 V AC 1 phase
3.15.6	Output voltage	220 V/ 240 V
3.15.7	Rated power in W	10000 W
3.15.8	rated power in VA	10000 VA
3.15.9	Bypass type	Internal bypass (automatic and manual)
3.15.10	Maximum configurable power in VA	10000 VA
3.15.11	Maximum configurable power in W	10000 W
3.15.12	UPS type	Double conversion online
3.15.13	Efficiency	94 % (full load)
3.15.14	Output frequency	50/60 Hz +/- 3 Hz sync to mains

3.15.15	Compliance	IEC 62040, BIS, CE, ISO 9001
3.15.16	Warranty	3 Years OEM Warranty

3.16 UPS 1 KVA- 60 Nos.

S.No	Parameter	Specification
3.16.1	Input Voltage Range	110-300 VAC or better
3.16.2	Output Voltage	230 VAC $\pm 1\%$
3.16.3	Output Waveform	Pure Sine Wave
3.16.4	Backup Time	Minimum 30 minutes at Full Load
3.16.5	Protection	Overload, Short Circuit, Surge and Battery Protection
3.16.6	Certification	BIS Certified
3.16.7	Compliance	IEC 62040, BIS, CE, ISO 9001
3.16.8	Warranty	3 Years Comprehensive Onsite OEM Warranty

3.17 Optical Fiber Cable- 300 Meters

S.No	Parameter	Specification
3.17.1	CABLE TYPE	Multimode: OM4 OM4: Supports 10G up to 400 meters
3.17.2	CONNECTOR & INTERFACE	CONNECTOR TYPE: LC (Lucent Connector) SFP ports. TRANSCEIVERS (SFP): SFP+ module into the switch's fiber slot to accept the cable SFP+: Up to 10 Gbps MATCHING: Both ends must match (e.g., if one switch has a Single Mode SFP, the other switch and the cable must also be Single Mode)
3.17.1	PHYSICAL PROTECTION	Indoor: Standard fiber patch cords with an LSZH (Low Smoke Zero Halogen) jacket for safety

3.18 Cabling, termination, testing, labeling and safety - 1 Job

S.N0.	Parameter	Description
3.18.1	Cabling Type	All horizontal network cabling shall be CAT-6A, 4-pair, 23 AWG or better, 500 MHz minimum, suitable for Gigabit/10-Gigabit Ethernet.
3.18.2	Cable Quantity	Approximately 4000 meters CAT-6A cable shall be installed as per actual site requirement. 200 Access points across the three floors. (Final quantity shall be based on site survey.)
3.18.3	Routing	Cable shall be routed through properly sized PVC/HDPE/GI conduit or approved cable raceway, neatly secured and protected throughout the route.
3.18.4	Power & Network Separation	Network cables shall be routed separately from electrical power cables, maintaining appropriate separation as per applicable standards.

3.18.5	Termination	CAT-6A cables shall be terminated on CAT-6A compatible patch panels and information outlets/keystone jacks using proper T568A/T568B termination consistently throughout the installation.
3.18.6	Point-to-Point Cabling	Each computer/network point shall have a dedicated home-run cable from the user outlet to the respective patch panel. No unauthorized joints/splices shall be permitted.
3.18.7	Inter-floor Connectivity	Network connectivity between 1st, 4th and 5th floors shall be provided as per approved network architecture. The dedicated storage/network connection to the 5th floor shall be provisioned as specified by the Central Archives.
3.18.8	Fiber Backbone	Where the inter-building/inter-floor distance or bandwidth requirement warrants, bidder shall provide fiber-optic backbone connectivity instead of copper, as per approved design.
3.18.9	Labeling	Both ends of every network cable, patch-panel port and information outlet shall be permanently and uniquely labeled.
3.18.10	Cable Management	Proper horizontal/vertical cable managers, Velcro ties and dressing shall be used. Cable bundles shall not be tightly tied with plastic cable ties.
3.18.11	Fire/Building Safety	Cable routing through walls/floors shall be properly sealed after installation. Required fire-stopping/fire-resistant treatment shall be provided wherever applicable.
3.18.12	Future Expansion	Cabling/rack/patch-panel infrastructure shall preferably provide minimum 20–25% spare capacity for future expansion.

4. SUPPLY OF EQUIPMENT

The successful bidder shall supply all equipment specified in the Bill of Materials, including all mandatory accessories, mounting kits, licenses, firmware, software utilities, cables, connectors, transceivers, power cords, adapters, manuals, and documentation required for complete functionality. All supplied equipment shall be:

- i. All equipment shall be brand new, unused and current production models.
- ii. All equipment shall be sourced through OEM-authorised channels.
- iii. All required licenses, firmware, software utilities, cables, connectors, transceivers, power cords and mounting accessories shall be included.
- iv. All equipment shall have valid OEM warranty and OEM support in India.
- v. OEM authorization/support documents shall be submitted wherever applicable.
- vi. Any accessory required for complete operation, whether specifically listed or not, shall be supplied at no additional cost.

5. INSTALLATION SERVICES

The bidder shall undertake complete installation and commissioning of all supplied equipment, including:

- i. Equipment positioning and rack mounting.
- ii. Power, earthing and network connections.
- iii. LAN and optical fiber termination.
- iv. Patch panel termination and cable management.
- v. Wireless Access Point installation.
- vi. Equipment and cable labelling.

- vii. Firmware/software installation and configuration.
- viii. System integration.
- ix. Neat and professional installation as per applicable standards and OEM guidelines.

6. CONFIGURATION AND INTEGRATION

The bidder shall configure and integrate the complete IT infrastructure, including:

- i. IP addressing, VLANs and routing.
- ii. DHCP/DNS/NTP configuration, wherever applicable.
- iii. Wireless configuration and authentication.
- iv. Switch configuration and stacking, wherever applicable.
- v. Firewall policies, security configuration and VPN, wherever applicable.
- vi. NAS/SAN, RAID, storage pools and access control.
- vii. Backup and restore configuration.
- viii. High Availability/failover configuration, wherever supported.
- ix. Firmware/software updates.
- x. Logging, monitoring and alerting.
- xi. Configuration documentation and handover.

7. STRUCTURED CABLING

The bidder shall supply, install, terminate, test and certify the complete structured cabling system.

- i. Cat-6A UTP cabling and accessories.
- ii. Optical Fiber Cable and accessories.
- iii. Patch panels, faceplates and patch cords.
- iv. Cable managers, conduits, casing-capping and trays, wherever required.
- v. Proper cable routing, segregation, bend radius and labelling.
- vi. Compliance with applicable ANSI/TIA and ISO/IEC standards and relevant Indian standards.
- vii. Certification testing of all copper links using suitable calibrated certification equipment.
- viii. Fiber continuity, optical loss and OTDR testing.
- ix. Submission of complete cabling test/certification reports.

8. TESTING AND COMMISSIONING

The bidder shall conduct complete testing prior to commissioning, including:

- i. Hardware and functionality verification.
- ii. Server and storage performance testing.
- iii. RAID/storage health verification.
- iv. Network connectivity and throughput testing.
- v. VLAN, routing and firewall testing.
- vi. Wireless coverage/connectivity testing.
- vii. UPS functionality testing.
- viii. Copper and fiber cabling certification.
- ix. Backup/restore testing.
- x. Redundancy and failover testing, wherever applicable.
- xi. Security and integration testing.

xii. Site Acceptance Test (SAT).
All defects identified during testing shall be rectified before final acceptance.

9. DOCUMENTATION

The bidder shall submit:

- i. System and network architecture diagrams.
- ii. Rack layouts and network topology.
- iii. IP addressing and VLAN details.
- iv. Equipment/asset and serial number register.
- v. Configuration documents and backups.
- vi. Warranty and license details.
- vii. Cabling and testing reports.
- viii. SAT/commissioning reports.
- ix. User and administration manuals.
- x. Backup/recovery and preventive maintenance procedures.
- xi. OEM documentation.

10. TRAINING

The bidder shall provide onsite training to designated personnel covering:

- i. System and storage administration.
- ii. Network and firewall administration.
- iii. Wireless and user management.
- iv. Backup and restoration.
- v. Monitoring and troubleshooting.
- vi. Preventive maintenance and security best practices.
- vii. Training material shall be provided in printed and electronic formats.

11. WARRANTY AND TECHNICAL SUPPORT

The bidder shall provide comprehensive five (5) year onsite warranty and technical support, unless otherwise specified in the Tender. Warranty shall include:

- i. Preventive and corrective maintenance.
- ii. Hardware/component replacement.
- iii. Firmware/software updates and security patches, wherever applicable.
- iv. OEM technical support.
- v. Telephone, remote and onsite support.
- vi. Labour, transportation and replacement-part costs.
- vii. Replacement of defective components with new genuine OEM components.
- viii. No additional cost shall be payable for warranty services.

12. ACCEPTANCE OF THE PROJECT

The project shall be considered complete only after:

- i. Complete supply as per BoM.
- ii. Successful installation and configuration.
- iii. Completion of cabling and certification.
- iv. Successful testing and integration.
- v. Successful SAT.
- vi. Rectification of all deficiencies.
- vii. Submission of required documentation.
- viii. Completion of training.
- ix. Submission of warranty/OEM support documents.
- x. Formal acceptance by the Purchaser.

13. DELIVERABLES

The successful bidder shall deliver:

- i. Complete equipment and accessories as per BoM.
- ii. Installed and commissioned IT infrastructure.
- iii. Certified structured cabling.
- iv. Configured network, security and storage infrastructure.
- v. Testing and SAT reports.
- vi. Complete technical documentation.
- vii. Training completion report.
- viii. Warranty certificates.
- ix. OEM authorization/support documents.
- x. Asset and serial number register.
- xi. As-built drawings and network diagrams.
- xii. Three (3) years comprehensive warranty and technical support as specified in the Tender.

14. ELIGIBILITY CRITERIA OF BIDDERS

- 14.1 The bidder shall either be a Service Solution Provider (SSP) or their authorized representative.
- 14.2 SSP shall provide a self-declaration certificate in respect of their services. In case, an authorized representative of the solution/service provider is the bidder, authorization certificates from the original service providers must be enclosed with the bid.
- 14.3 The bidder shall have completed at least 5 projects related to Media Asset Management systems. Work completion certificates for such projects to be furnished.
- 14.4 The bidders shall furnish authorization certificates from respective OEMs of the products offered. Copy of certificates must be attached with bid document.
- 14.5 The bidder/OEM must submit the certificate from existing OEM for authorization & services.
- 14.6 Bidder shall not have been blacklisted by any State /PSU/ Central Government in India for corrupt, fraudulent or any other unethical business

- practices or for any other reason. Bidder shall submit affidavit along with Technical Bid. The format is given in Appendix-4.
- 14.7 The bidder shall not be under liquidation, court receivership or similar proceedings, shall not be bankrupt. Bidder to upload undertaking to this effect with bid.
- 14.8 Bidder must be able to present / demonstrate the Proof of Concept as per Client's requirements.
- 14.9 Bidders are advised to check applicable GST on their own before quoting. Buyer will not take any responsibility in this regards. GST reimbursement will be as per actuals or as per applicable rates (Whichever is lower), subject to the maximum of quoted GST %
- 14.10 Toll free numbers shall be provided by the Bidder/OEM for Service Support. Details to be furnished along with the technical bid.
- 14.11 Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support. Details to be furnished along with the technical bid.
- 14.12 Malicious Code Certificate: The bidder should upload following certificate in the bid:
- “This is to certify that the Hardware and the Software being offered, as part of the contract, does not contain Embedded Malicious code that would activate procedures to:

- i. Inhibit the desires and designed function of the equipment.
- ii. Cause physical damage to the user or equipment during the exploitation.
- iii. Tap information resident or transient in the equipment/network.

In case physical damage, loss of information or infringements related to copyright and Intellectual Property Right (IPRs) are caused due to activation of any such malicious code in embedded software, the bidder/supplier will be in breach of the procurement contract.”

15. SUBMISSION OF BIDS

The bidders should submit their bids in two parts i.e. Technical Bid and Commercial Bid as per the notice inviting tender (NIT). The technical bid shall consist of following documents duly indexed:

- 15.1 Certificates and documents enumerated under the Eligibility Criteria.
- 15.2 Solution document which would include the following:
- 15.2.1 The bidders should submit their proposed approach for SITC of this project.
 - 15.2.2 The bidders should submit their Technology and other details in respect of hardware, and software application.
 - 15.2.3 Unpriced/price bid duly filled with all the details except the rates and prices quoted (as per Appendix-2). Prices shall not be given with Technical Bid.
 - 15.2.4 The bidders should submit detailed data migration plan.
 - 15.2.5 The tenders are liable to be rejected if any of the above information/ documents is found missing in the technical bid/proposal.

16. TECHNICAL BID

- 16.1 Technical Evaluation shall be done based on the technical offer/ solution proposed by the bidder in the technical bid.

- 16.2 The technical offer/ solution shall have following information/ documents:
- i. Unpriced price-bid indicating Make, Model and Quantity of the offered product listed in the Bill of Material (BOM) as per Appendix-1. Price of the equipment shall not be indicated in the unpriced bid submitted with technical bid.
 - ii. Datasheet/ Technical specs of the equipment proposed in the offer.
 - iii. Back-to-Back on-site Support commitment from OEM/Bidder of the equipment listed under BOM for the period of Three (3) years.
 - iv. Compliance/No deviation statement duly signed by the bidder, as applicable, in respect of all the points laid down in the specifications for all the equipment/item(s) offered in the bid as per the proforma (Appendix -3).
 - v. Authorization from the OEMs for major supplies like switches, firewall, UPS, Wireless controller & Laptop computer.

17. TENDER EVALUATION

- 17.1 The tender should be technically evaluated on the basis of conformity of Bid to Technical specifications.
- 17.2 The Bid that fully meet the technical specifications shall be considered technically qualified.
- 17.3 Technically qualified bidders will be evaluated for financial Bid.

18. WARRANTY & MAINTENANCE

- 18.1 All the equipment including network cabling shall be under warranty for trouble free operation for a minimum period of 3 years from the date of commissioning.
- 18.2 In case of failure of any equipment or its part/module, the bidder will send a replacement. The faulty part shall be sent back to tenderer after rectification of fault.
- 18.3 However, if it is not possible to rectify the fault remotely or by replacement of part/module, onsite support for replacement/servicing/debugging of software
- 18.4 /reinstallation/ reconfiguring of software etc. shall be provided by tenderer free of cost.
- 18.5 No separate charges will be paid for the visit of engineers for attending to faults and repairs or supply of spare parts.
- 18.6 Bidders shall quote charges for comprehensive Annual Maintenance Charges (AMC) for 4th year and 5th year (a period of two(2) years after the lapse of 3 years warrantee) along with any licenses for the hardware/software supplied. The provision for comprehensive AMC shall be optional; however, the quoted amount shall be accounted for Financial/commercial evaluation of the bids.

19. DELIVERY PERIOD

All items listed in the Bill of Materials, including installation, shall be supplied within 90 days.

Appendix -1

BILL OF MATERIAL

S.No.	ITEMS	REFERENCE	QTY
1	Desktop Computer System	Ref # 3.1	60 Nos.
2	Laptop computer system (Windows based)	Ref # 3.2	15 Nos.
3	Online Storage (NAS)-480 TB	Ref # 3.3	01 No
4	Firewall	Ref # 3.4	01 No
5	Network Switch-24 Port Managed Layer 3 (Non-POE)	Ref # 3.5	06 Nos.
6	Network Switch-24 Port layer 2 Unmanaged (Non-POE)	Ref # 3.6	06 Nos.
7	Wireless Controller	Ref # 3.7	01 No
8	Wireless Access Point (Wall Mount)	Ref # 3.8	20 Nos.
9	24-Port Unmanaged PoE Switch	Ref # 3.9	04 Nos
10	Equipment Rack 42 U with all accessories	Ref # 3.10	01 No
11	Equipment Rack 8 U with all accessories	Ref # 3.11	03 Nos.
12	Cat-6A UTP Patch Cord 2 Mtrs.	Ref # 3.12	200 Nos.
13	Cat 6A UTP Cable (1 roll= 305 Mtr)	Ref # 3.13	20 Nos.
14	Single Port Faceplate	Ref # 3.14	200 Nos.
15	UPS - 10 KVA	Ref # 3.15	03 Nos.
16	UPS - 1 KVA	Ref # 3.16	60 Nos.
17	Optical Fiber Cable	Ref # 3.17	300 Mtr.
18	Laying of cable including casing, conducing and capping (Approx.)	Ref # 3.18	4000 Mtr.

UNPRICED PRICE BID

(Quantities indicated in the price bid are merely for the financial evaluation of the bids. Payments shall be processed for the items/quantities supplied or utilized as per pay as you go model)

S.No.	ITEMS	Make	Model	QTY	Unit	Unit Price (₹)	Price (₹)
1	Desktop Computer System			60	Nos.	X	X
2	Laptop computer system (Windows based)			15	Nos.	X	X
3	Online Storage (NAS)-480 TB			01	No	X	X
4	Firewall			01	No	X	X
5	Network Switch-24 Port Managed Layer 3 (Non-POE)			04	Nos.	X	X
6	Network Switch-24 Port layer 2 Unmanaged (Non-POE)			06	Nos.	X	X
7	Wireless Controller			01	No	X	X
8	Wireless Access Point (Wall Mount)			20	Nos.	X	X
9	24-Port Unmanaged PoE Switch			04	Nos.	X	X
10	Equipment Rack 42 U with all accessories			01	No	X	X
11	Equipment Rack 8 U with all accessories			03	Nos.	X	X
12	Cat-6A UTP Patch Cord 2 Mtrs.			200	Nos.	X	X
13	Cat 6A UTP Cable (1 roll= 305 Mtr)			20	Nos.	X	X
14	Single Port Faceplate/Access Points			200	Nos.	X	X
15	UPS - 10 KVA			03	Nos.	X	X
16	UPS - 1 KVA			60	Nos.	X	X
17	Optical Fiber Cable			300	Meters	X	X
18	Laying of cable including casing, conducing and capping (Approx.)			4000	Meters	X	X
19	OPTIONAL ITEM Comprehensive Annual Maintenance Charges in respect of the equipment supplied (SN 1 to 18) for 4 th and 5 th year (2 year after the lapse of 3 years warrantee period) (to be counted for financial/ commercial evaluation)			Lump sum		X	X

We hereby confirm that the prices for all the above items are quoted in the Price Bid submitted separately. We understand that the Technical Evaluation will be done based on this unpriced bid and the specifications enclosed.

Authorized Signatory:
Name & Designation:

Seal of the Company
Date:

NIL DEVIATION DECLARATION

Date...../..../.2026

Subject: Technical specification for supply, installation, testing, and commissioning (SITC) of the upgradation of Computer Network Infrastructure at Central Archives, Prasar Bharati

Tender No:

Notwithstanding anything mentioned in our bid, we hereby accept all the terms and conditions of this Tender Document without any reservations whatsoever. We hereby undertake and confirm that we have understood all the specifications, stipulations, terms and conditions as mentioned in this Tender enquiry.

I hereby declare that the offered solution/equipment fully complies with the technical specifications and there is no deviation in the offer/solutions.

Signature of Authorized Signatory of Bidder

Name:

Designation:

Date:

Place:

Seal of Organization:

CERTIFICATE OF NON-BLACKLISTING / NON-DEBARMENT

To,
Prasar Bharati
Central Archives
Akashvani Bhawan,
Sansad marg, New Delhi -110001

Subject: Certificate regarding Non-Blacklisting / Non-Debarment

We, M/s _____, having our registered office at _____ hereby certify and declare that our firm/company has not been blacklisted, debarred, banned or suspended by any Central Government Department, State Government Department, Public Sector Undertaking (PSU), Autonomous Body, Statutory Body or Government Organization in India as on the date of submission of this bid.

We further certify that no order of blacklisting/debarment/banning/suspension is currently in force against our firm/company.

We understand that if any information furnished above is found to be false or incorrect, our bid/contract may be rejected/terminated and appropriate action may be taken as per the terms and conditions of the tender.

For M/s _____

Authorized Signatory: _____

Name: _____

Designation: _____

Contact No.: _____

Email: _____

Date: _____

Place: _____

Company Seal & Signature