

TECHNICAL SPECIFICATION COMPLIANCE STATEMENT

Technical Specifications							
IP PBX							
Bidder's Name:							
Bidder's Quoted Brand / Model:							
Country of Manufacture:							
S.No	Feature / Description	Minimum Requirement	Marks	Bidder Statement			Bidder Quoted Features
				FC	PC	NC	
1 General / System Capacity							
1.1	Switch Type	IP PBX (IP-based Private Branch Exchange) supporting SIP protocol; audio UC & collaboration platform	M				
1.2	Maximum SIP User Extensions	Minimum 3,000 SIP user extensions	M				
1.3	Concurrent Calls	Minimum 450 concurrent calls (G.711); minimum 300 concurrent SRTP-encrypted calls	M				
1.4	Analog FXS Ports (Extensions)	Minimum 8 analog telephone ports (FXS, RJ11) with lifeline capability during power outage	M				
1.5	Analog FXO Ports (PSTN Lines)	Minimum 8 PSTN line ports (FXO, RJ11) with lifeline capability during power outage	M				
1.6	Mounting / Form Factor	Rack-mountable (1U) and desktop; rack-mount kit included	M				
1.7	LCD Display	128x32 dot matrix graphic LCD display with navigation buttons	M				
1.8	LED Indicators	Status LED indicators for Power, FXS, FXO, LAN, WAN, and Heartbeat	M				
1.9	Reset Switch	Hardware reset switch; short press for reboot, long press for factory reset	M				
2 Network & Interfaces							
2.1	Network Ports	3 x self-adaptive Gigabit Ethernet ports (10/100/1000 Mbps); supports switched, routed, or dual mode	M				
2.2	PoE+ Support	Integrated PoE+ on network ports	M				
2.3	NAT Router	Built-in NAT router; supports router mode and switch mode	M				
2.4	USB Ports	Minimum 2 x USB 3.0 ports for storage / backup	M				
2.5	SD Card Slot	1 x SD card slot	M				
2.6	VPN Support	OpenVPN® support for secure remote connectivity	M				
2.7	Network Protocols	TCP/UDP/IP, RTP/RTCP, DNS, DDNS, DHCP, NTP, TFTP, SSH, HTTP/HTTPS, PPPoE, STUN, SRTP, TLS, LDAP, IPv6	M				
3 Voice & Codec Support							
3.1	Voice Codecs	Opus (Full-Band), G.711 A-law/U-law, G.722, G.722.1, G.722.1C, G.723.1, G.726-32, G.729A/B, iLBC, GSM	M				
3.2	Fax Support	T.38 fax over IP (FoIP)	M				
3.3	Echo Cancellation	Carrier-grade LEC with NLP; 128ms tail-length line echo cancellation	M				
3.4	Jitter Buffer	Dynamic jitter buffer; FEC 2.0; jitter resilience up to 50% audio packet loss	M				
3.5	DTMF Methods	In-band audio, RFC 4733, and SIP INFO	M				
3.6	QoS	Layer 2 QoS (802.1Q, 802.1p) and Layer 3 QoS (ToS, DiffServ, MPLS)	M				
3.7	Modem Support	Modem detection with auto-switch to G.711	M				
4 Conferencing & Collaboration							
4.1	Audio Conference Rooms	Minimum 9 simultaneous audio conference/meeting rooms	M				
4.2	Conference Parties	Minimum 150 simultaneous conference participants across all rooms	M				
4.3	Instant Messaging (IM)	Built-in IM platform for internal user messaging	M				
4.4	Web Meetings	Built-in audio web meetings platform accessible from desktop, web browser, and mobile	M				

4.5	Wave App	Free Wave App for desktop (Windows/Mac), web (Chrome/Firefox), and mobile (Android/iOS) for voice, IM, and meetings	M				
5 Telephony Features							
5.1	IVR / Auto Attendant	Multi-level IVR (up to 5 layers) in multiple languages with customizable prompts	M				
5.2	Call Features	Call park, forward, transfer, waiting, caller ID, record, history, DND, DISA, ring group, ring simultaneously, paging/intercom	M				
5.3	Call Queuing / ACD	Configurable call queues with ACD based on agent skills, availability, and workload; in-queue announcements	M				
5.4	Voicemail	Per-extension voicemail; voicemail-to-email notification; fax-to-email	M				
5.5	Additional Features	BLF, SCA, speed dial, call back, dial by name, emergency call, call follow-me, blacklist/whitelist, time schedules, PIN groups	M				
5.6	Caller ID Standards	Bellcore/Telcordia, ETSI-FSK, ETSI-DTMF, SIN 227-BT, NTT	M				
5.7	Polarity Reversal / Wink	Supported with enable/disable option on call establishment and termination	M				
6 Provisioning & Management							
6.1	Web GUI	Browser-based HTTPS management interface; no proprietary software required	M				
6.2	Auto-Provisioning	Zero-touch auto-provisioning of SIP endpoints via ZeroConfig (DHCP Option 66, multicast SIP SUBSCRIBE, mDNS)	M				
6.3	Mass Provisioning	AES-encrypted XML configuration file for mass provisioning	M				
6.4	Cloud Management	Compatible with GDMS (Grandstream Device Management System) or equivalent cloud management platform for zero-touch provisioning, monitoring, and firmware upgrades	M				
6.5	API Integration	Full REST API available for third-party CRM and PMS platform integration	M				
6.6	Multi-language GUI	Web UI in minimum English; IVR/voice prompts customizable in multiple languages	M				
6.7	High Availability	Hot Standby High-Availability (HA) and local dual deployment support	M				
7 Security							
7.1	Media Encryption	SRTP for voice media encryption	M				
7.2	Signalling Encryption	TLS encryption for SIP signalling	M				
7.3	Management Security	HTTPS and SSH for encrypted management access	M				
7.4	Network Access Control	IEEE 802.1X port-based access control	M				
7.5	Device Security	Secure boot, unique device certificate, and randomized default password	M				
7.6	Firewall	Automated NAT firewall traversal for secure remote connections (UCM RemoteConnect or equivalent)	M				
8 Power & Environmental							
8.1	Power Supply	Dual / redundant DC 12V power input; universal AC adapter 100–240V, 50/60Hz	M				
8.2	Operating Temperature	0°C to 45°C (32°F to 113°F)	M				
8.3	Storage Temperature	-10°C to 60°C (14°F to 140°F)	M				
8.4	Humidity	10% to 90% relative humidity (non-condensing)	M				
9 Standards & Compliance							
9.1	SIP Standard	RFC 3261 compliant; based on Asterisk v16 or equivalent open-source telephony platform	M				
9.2	Protocol Standards	RFC 3262, 3263, 3264, 3515, 3311, 4028, 4733, 4566, 3711, 5245, 5389, 5766, 6347, 6455, 3550	M				
9.3	Safety / EMC	CE (EN 55032, EN 62368-1) and FCC Part 15 Class B or equivalent national certification	M				
9.4	Telecom Compliance	FCC Part 68, ETSI ES 203 021, ITU-T K.21 or equivalent	M				
9.5	Warranty	Minimum 1-year manufacturer warranty	M				

TECHNICAL SPECIFICATIONS							
Executive IP Phone (Steno)							
Bidder's Name:							
Bidder's Quoted Brand / Model:							
Manufacturing Country (Made & Assembled in):							
S.No	Feature / Description	Specification	Marks	Bidder Statement			Bidder Quoted Feature
				FC	PC	NC	
1	SIP Lines & Accounts	Minimum 6 SIP accounts; minimum 12 line keys / line appearances Supports simultaneous registration on multiple SIP servers	M				
2	Display	Minimum 4.3-inch color TFT LCD; minimum 480×272 pixel resolution Backlit display; supports on-screen call management	M				
3	Audio Quality	Full HD audio on handset and full-duplex speakerphone Supported codecs: G.711 (A/U-law), G.722 (HD), G.729A/B, G.726, Opus Acoustic echo cancellation; background noise	M				
4	Programmable Keys & BLF	Minimum 48 programmable speed-dial / BLF (Busy Lamp Field) keys (on-screen or physical) Minimum 5 XML-programmable soft keys Support for expansion modules (sidecar) for additional BLF keys	M				
5	Network Interface	Dual Gigabit Ethernet ports (10/100/1000 Mbps) — one for network, one for PC passthrough Integrated PoE (IEEE 802.3af/at); external power adapter as alternative	M				
6	Conferencing	Minimum 5-way on-device audio conferencing Supports call hold, transfer (attended & blind), call waiting, 3-way bridge	M				
7	Call Features	Call park, call pickup, call forward, DND (Do Not Disturb), call recording Voicemail with MWI (Message Waiting Indicator) LDAP, XML phonebook; call history log (minimum 500 entries)	M				
8	Headset Support	RJ9 headset port; EHS (Electronic Hook Switch) support for wireless headsets Compatible with Plantronics / EPOS / Jabra EHS-capable headsets	M				
9	Security & Protocols	SIP RFC 3261 compliant; TLS for SIP signalling; SRTP for media encryption HTTPS / SSH management; 802.1X port-based authentication Auto-provisioning via TR-069, TFTP, HTTP/HTTPS, encrypted XML	M				
10	Power & Physical	PoE powered (IEEE 802.3af minimum); optional 5V DC adapter included Desktop form factor with adjustable tilt stand; optional wall-mount Operating Temp: 0°C to 40°C Humidity: 10–90% non-condensing	M				
11	Compatibility & Warranty	Compatible with standard SIP PBX platforms (Asterisk, 3CX, FreePBX, UCM series) Zero-touch auto-provisioning with compatible IP PBX CE / FCC or equivalent certification Minimum 1-year warranty	M				

TECHNICAL SPECIFICATIONS							
Normal IP Phone Set							
Bidder's Name:							
Bidder's Quoted Brand / Model:							
Manufacturing Country (Made & Assembled in):							
S.No	Feature / Description	Specification	Marks	Bidder Statement			Bidder Quoted Feature
				FC	PC	NC	
1	SIP Lines & Accounts	Minimum 3 SIP accounts; minimum 4 line keys Supports simultaneous registration on multiple SIP	M				
2	Display	Minimum 2.4-inch color LCD; minimum 320×240 pixel resolution with backlight Clear on-screen call status and caller ID display	M				
3	Audio Quality	HD audio on handset and full-duplex speakerphone Supported codecs: G.711 (A/U-law), G.722 (HD), G.729A/B	M				
4	Programmable Keys & BLF	Minimum 8 programmable BLF / speed-dial keys (dual-color LED) Minimum 4 XML-programmable soft keys	M				
5	Network Interface	Dual Gigabit Ethernet ports (10/100/1000 Mbps) — one for network, one for PC passthrough Integrated PoE (IEEE 802.3af); external power adapter as alternative	M				
6	Conferencing	Minimum 4-way on-device audio conferencing Supports call hold, transfer (attended & blind), call	M				
7	Call Features	Call forward, DND (Do Not Disturb), call waiting, call pickup Voicemail with MWI (Message Waiting Indicator) Local phonebook (minimum 300 entries); call history log	M				
8	Headset Support	RJ9 headset port for wired headset connectivity EHS headset support preferred	M				
9	Security & Protocols	SIP RFC 3261 compliant; TLS for SIP signalling; SRTP for media encryption Auto-provisioning via TR-069, TFTP, HTTP/HTTPS, encrypted XML 802.1X port-based network access control	M				
10	Power & Physical	PoE powered (IEEE 802.3af); optional 5V DC adapter included Desktop form factor with adjustable tilt stand; optional wall-mount Operating Temp: 0°C to 40°C Humidity: 10–90% non-condensing	M				
11	Compatibility & Warranty	Compatible with standard SIP PBX platforms (Asterisk, 3CX, FreePBX, UCM series) Zero-touch auto-provisioning with compatible IP PBX CE / FCC or equivalent certification Minimum 1-year warranty	M				

TECHNICAL SPECIFICATIONS							
24-Port Multi-Gigabit Managed PoE++ Switch							
Bidder's Name:							
Bidder's Quoted Brand / Model:							
Country of Manufacture:							
S.No	Feature / Description	Minimum Specification	Marks	Bidder Statement			Bidder Quoted Features
				FC	PC	NC	
1	Access Ports	12 × 2.5 GbE RJ45 ports; 12 × 1 GbE RJ45 ports; PoE++ (IEEE 802.3bt) & PoE+ (IEEE 802.3at) capable; multi-gigabit (2.5G) support	M				
3	Uplink Ports	2 × 10G SFP+ fiber/DAC uplink ports for high-speed backbone connectivity	M				
4	PoE Standard	IEEE 802.3af (PoE), 802.3at (PoE+), and 802.3bt (PoE++) compliant on all 24 access ports	M				
5	PoE Budget & Per-Port Output	Total PoE budget: minimum 400W; per-port output: up to 30W (PoE+) and up to 60W (PoE++) as required	M				
6	Switching Capacity	Minimum 112 Gbps non-blocking switching fabric; forwarding rate minimum 56 Mpps	M				
7	Switch Layer	Layer 3 managed switch with inter-VLAN routing support	M				
8	Key L2/L3 Features	IEEE 802.1Q VLAN; inter-VLAN routing; LACP (802.3ad) link aggregation; QoS; IGMP snooping; DHCP snooping	M				
9	Management	Cloud-managed and local deployment; centralized monitoring; traffic analytics; remote configuration via web GUI or mobile app	M				
11	Port Status Visualization	Per-port illumination or equivalent LED status display for real-time port activity and link speed indication	M				
12	Power Supply & Consumption	Internal AC power supply (100–240V, 50/60Hz); switch power consumption ≤ 50W (excluding PoE output)	M				
13	Certifications & Warranty	CE / FCC Class A or equivalent national certification; RoHS compliant; minimum 1-year warranty	M				

TECHNICAL SPECIFICATIONS							
Indoor WiFi Access Point							
Bidder's Name:							
Bidder's Quoted Brand / Model:							
Manufacturing Country (Made & Assembled in):							
S.No	Feature / Description	Specification	Marks	Bidder Statement			Bidder Quoted Feature
				FC	PC	NC	
1	Wireless Performance	WiFi Standard: 802.11ax (WiFi 6) + backward compatible (a/b/g/n/ac) Bands: Dual-band — 2.4 GHz + 5 GHz Max Throughput: ~3.0 Gbps total (5 GHz: 2.4 Gbps 4×4 MU-MIMO+OFDMA; 2.4 GHz: 600 Mbps 4×4 MIMO) MIMO: 4×4 on both bands Max Clients: ~300+ devices	M				
2	Hardware & Interfaces	Processor: 1.3 GHz dual-core Ethernet Port: 1 × Gigabit RJ45 (10/100/1000 Mbps) Bluetooth: Yes (for management / location services)	M				
3	Power	Power Method: IEEE 802.3at PoE+ (PoE injector NOT included) Max Power Consumption: ~16.5W Voltage Range: 44–57V DC	M				
4	Antenna & RF	Antenna Type: Internal Antenna Gain: 2.4 GHz ~4 dBi; 5 GHz ~5.5 dBi Max TX Power: ~26 dBm (both bands)	M				
5	Physical & Environmental	Dimensions: Ø220 × 48 mm Mounting: Ceiling / Wall Ingress Protection: IP54 (dust & splash resistant) Operating Temp: -30°C to +60°C Humidity: 5–95% non-condensing	M				
6	Software Features	MU-MIMO & OFDMA (high-efficiency WiFi 6) VLAN support (802.1Q) QoS (per-user rate limiting) WPA3 security Centralized management via	M				
7	Coverage & Deployment	Coverage Area: ~180–185 m² (approx.) Suitable for: Offices, campuses, large homes, semi-outdoor deployments	M				
8	Certifications & Warranty	CE / FCC or equivalent national certification RoHS compliant Minimum 1-year warranty	M				

TECHNICAL SPECIFICATIONS							
24-Port Layer 3 Aggregation Switch							
Bidder's Name:							
Bidder's Quoted Brand / Model:							
Manufacturing Country (Made & Assembled in):							
S.No	Feature / Description	Specification	Marks	Bidder Statement			Bidder Quoted Feature
				FC	PC	NC	
1	Ports & Interfaces	24 × 100/1000BASE-X SFP ports (fiber-based) 1 × Console port (RJ45) 1 × Ethernet management port (10/100 Mbps) 1 × USB port (config/upgrade) Front card slot (optional): 2-port or 4-port GE / 10GE SFP+ expansion	M				
2	Performance & Switching	Switching Type: Layer 3 (routing supported) Routing: Static routing; RIP / OSPF / BGP (license dependent) Traffic Analysis: NetStream / equivalent supported	M				
3	Hardware Specifications	RAM: Minimum 512 MB Flash Memory: Minimum 64 MB Cooling: Built-in fans with directional (left-to-right) airflow	M				
4	Power Supply	Dual modular PSU (AC/DC supported); 1+1 redundancy Max Power Consumption: ~80.7 W	M				
5	Environmental	Operating Temperature: -5°C to +55°C Humidity: 5–95% non-condensing MTBF: Up to ~36 years (configuration dependent)	M				
6	Software Features	VLAN (802.1Q), QinQ ACL (advanced traffic filtering) QoS (traffic prioritization) IPv4 / IPv6 support VPN support Port security & DHCP snooping Link aggregation (Eth-Trunk / LACP)	M				
7	High Availability & Stacking	Stacking: Supported via 10GE ports (software dependent) High Availability: Dual PSU; carrier-grade reliability (>99.999%)	M				
8	Certifications & Warranty	CE / FCC Class A or equivalent national certification RoHS compliant Minimum 1-year warranty	M				

TECHNICAL SPECIFICATIONS							
Outdoor WiFi Access Point							
Bidder's Name:							
Bidder's Quoted Brand / Model:							
Manufacturing Country (Made & Assembled in):							
S.No	Feature / Description	Specification	Marks	Bidder Statement			Bidder Quoted Feature
				FC	PC	NC	
1	Wireless Performance	WiFi Standard: 802.11ax (WiFi 6) + backward compatible (a/b/g/n/ac) Bands: Dual-band — 2.4 GHz + 5 GHz Max Throughput: ~1.8 Gbps total (5 GHz: 1.2 Gbps 2×2 MU-MIMO+OFDMA; 2.4 GHz: 600 Mbps 2×2 MIMO) MIMO: Minimum 2×2 on both bands Max Clients: ~200+ devices	M				
2	Hardware & Interfaces	Processor: Minimum dual-core 1.0 GHz Ethernet Ports: Minimum 1 × Gigabit RJ45 (10/100/1000 Mbps); PoE pass-through preferred GPS / Bluetooth: Optional (for management / location services)	M				
3	Power	Power Method: IEEE 802.3at PoE+ or IEEE 802.3bt PoE++ (PoE injector NOT included) Max Power Consumption: ≤ 25W Voltage Range: 44-57V DC	M				
4	Antenna & RF	Antenna Type: Internal omni-directional (or external N-type connector option) Antenna Gain: 2.4 GHz minimum 3 dBi; 5 GHz minimum 4 dBi Max TX Power: Minimum 26 dBm (both bands)	M				
5	Physical & Environmental	Enclosure: UV-stabilized weatherproof outdoor housing Ingress Protection: IP67 or better (dust-tight & waterproof immersion) Operating Temp: -40°C to +70°C Humidity: 5–100% condensing Wind Survivability: Minimum 160 km/h Mounting: Pole-mount or wall-mount bracket included	M				
6	Software Features	MU-MIMO & OFDMA (high-efficiency WiFi 6) VLAN support (802.1Q) QoS (per-user rate limiting) WPA3 / WPA2 security Band steering & airtime fairness Centralized management via cloud / on-premise controller	M				
7	Coverage & Deployment	Coverage Area: Minimum 250 m ² outdoor / open-area coverage Suitable for: Outdoor campuses, public spaces, building exteriors, industrial yards, semi-rural deployments	M				
8	Certifications & Warranty	CE / FCC Part 15 or equivalent national certification IP67 certified RoHS compliant Minimum 1-year warranty	M				

TECHNICAL SPECIFICATIONS							
Wireless LAN Controller							
Bidder's Name:							
Bidder's Quoted Brand / Model:							
Manufacturing Country (Made & Assembled in):							
S.No	Feature / Description	Specification	Marks	Bidder Statement			Bidder Quoted Feature
				FC	PC	NC	
1	Controller Type & Deployment	Dedicated hardware WLAN controller supporting centralized management of WiFi 6 (802.11ax) Access Points Deployment modes: On-premises (hardware appliance) and/or cloud-managed <u>Must support indoor and outdoor AP management</u>	M				
2	AP Management Capacity	Minimum 100 APs manageable per controller unit Scalable to 500 APs via licensing or stacking AP license-based model; base + expansion licenses must be quoted per AP count	M				
3	Client Capacity	Minimum 2,000 concurrent wireless clients per controller	M				
4	Network Interfaces	Minimum 2 × Gigabit Ethernet (RJ45) LAN/uplink ports 1 × USB 3.0 port (for configuration backup / restore) Console port (RJ45) for local CLI access	M				
5	Wireless Standards Supported	Must manage APs operating on IEEE 802.11ax (WiFi 6), 802.11ac (WiFi 5), and legacy 802.11a/b/g/n Dual-band (2.4 GHz + 5 GHz) AP management mandatory	M				
6	Key Management Features	Centralized SSID, VLAN, QoS, and RF policy configuration across all APs Real-time topology view, traffic analytics, and per-AP/per-client monitoring Bulk firmware upgrade and batch configuration management Rogue AP detection and containment Guest portal / captive portal with authentication support	M				
7	Security & Authentication	WPA3 / WPA2 Enterprise (IEEE 802.1X / RADIUS) support Per-SSID VLAN segmentation (802.1Q) Role-based access control (RBAC) for admin accounts HTTPS and SSH for encrypted management access	M				
8	High Availability & Redundancy	Active-Standby (Hot Standby / 1+1) controller redundancy support Sub-30 second AP failover to standby controller Configuration auto-sync between primary and <u>standby units</u>	M				
9	Power & Physical	Internal AC power supply: 100–240V, 50/60Hz Form Factor: Desktop or 1U rackmount Operating Temperature: 0°C to 45°C Humidity: 10–90% non-condensing	M				
10	Licensing & Warranty	AP licenses (per-AP or bundled) must be included in offer for required AP count License term: Minimum perpetual or 3-year subscription Software updates and security patches included during license period <u>Minimum 1-year hardware warranty</u>	M				

TECHNICAL SPECIFICATIONS							
Router for AP Configuration							
Bidder's Name:							
Bidder's Quoted Brand / Model:							
Manufacturing Country (Made & Assembled in):							
S.No	Feature / Description	Specification	Marks	Bidder Statement			Bidder Quoted Feature
				FC	PC	NC	
1	Router Type & Role	Enterprise-grade wired VPN router / security gateway Must integrate with WLAN controller / SDN platform to manage AP traffic, VLANs, and inter-SSID routing Supports Software-Defined Networking (SDN) or <u>equivalent centralized management</u>	M				
2	WAN Ports	Minimum 2 × WAN ports (RJ45 Gigabit or SFP) At least 1 × 10G SFP+ WAN port preferred for high-speed uplink Multi-WAN load balancing and WAN failover (active-backup) support mandatory <u>4G/LTE USB modem backup support via USB port</u>	M				
3	LAN Ports	Minimum 2,000 concurrent wireless clients per controller	M				
4	Routing & Performance	NAT Throughput: Minimum 5 Gbps Maximum Concurrent Sessions: Minimum 500,000 Maximum Clients: Minimum 500 (scalable to 1,000+) Static routing, OSPF, and RIP support; BGP preferred <u>Inter-VLAN routing for AP SSID traffic segregation</u>	M				
5	VPN Support	IPSec VPN: Minimum 100 tunnels (LAN-to-LAN and Client-to-LAN) SSL VPN: Minimum 50 concurrent tunnels OpenVPN, L2TP/IPSec, PPTP support VPN for secure remote AP management and branch connectivity	M				
6	Security & Firewall	SPI (Stateful Packet Inspection) firewall DoS/DDoS flood defense (TCP/UDP/ICMP) IP / MAC / URL / keyword filtering; IP-MAC binding 802.1Q VLAN support for AP SSID segmentation <u>ACL (Access Control Lists) for traffic policy</u>	M				
7	Management & SDN Integration	Integrates with WLAN controller / SDN platform (hardware or cloud-based) Web-based HTTPS GUI; CLI via SSH/Console; SNMP v2c/v3 Centralized cloud management and remote configuration support Real-time traffic analytics and bandwidth monitoring per port/client <u>Batch configuration and remote firmware upgrade</u>	M				
8	Power, Physical & Compliance	Internal AC power supply: 100–240V, 50/60Hz Dual redundant PSU preferred for carrier-grade reliability Form Factor: 1U Rackmount Operating Temp: 0°C to 45°C CE / FCC or equivalent certification <u>RoHS compliant Minimum 1-year warranty</u>	M				

TECHNICAL SPECIFICATIONS							
UPS (3 KVA)							
Bidder's Name:							
Bidder's Quoted Brand / Model:							
Country of Manufacture:							
S.No	Feature / Description	Minimum Specification	Marks	Bidder Statement			Bidder Quoted Features
				FC	PC	NC	
1	UPS Type & Topology	Line-Interactive or Online Double Conversion; sine wave output mandatory	M				
2	Power Rating	Minimum 3000 VA / 3000 W (unity power factor or ≥ 0.9 pF);	M				
3	Input Voltage & Frequency	AC input: 170 – 280 V (wide range); 50 Hz $\pm$ 5%; single phase	M				
4	Output	220 – 240 V AC $\pm$ 5%; pure sine wave; minimum 2 $\times$ IEC C13 or local output sockets	M				
5	Battery	External sealed lead-acid (SLA/VRLA) battery; deep-cycle; maintenance-free; Backup time of battery: minimum 25-30 mins at full load	M				
6	Protection & Alarms	Overload, over-voltage, under-voltage, short circuit, over-temperature protection; audible alarms and LED indicators for mains, battery,	M				
7	Compliance & Warranty	RoHS compliant; minimum 1-year warranty	M				