



TECHNICAL SPECIFICATION FOR SERVER

Equipment: ENTERPRISE IP PABX SYSTEM

OBJECTIVE

To upgrade and expand the IP telephony system of Ungoofaaru Regional Hospital (URH).

SPECIFICATIONS

Category	Specification Details
Preferred Model	Grandstream UCM6308 or equivalent
Device Type	IP PBX / Unified Communications Appliance
System Capacity	Up to 3000 SIP users/extensions
Concurrent Calls	Up to 450 simultaneous calls
Audio Conference Capacity	Up to 300 participants
Video Conference Capacity	Up to 60 Full HD participants
FXO Ports	8 × RJ11 (PSTN trunk interfaces)
FXS Ports	8 × RJ11 (analog extension support)
Ethernet Ports	3 × Gigabit RJ45 (LAN/WAN configurable)
Network Features	NAT router, firewall traversal, VLAN support, QoS
PoE Support	PoE+ supported on LAN ports
USB Ports	2 × USB 3.0
Storage	SD card slot (for backup/logs/recording)
Operating System	Asterisk-based embedded OS





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UNGOOFAARU REGIONAL HOSPITAL

Raa, Ungoofaaru, Republic of Maldives



Protocols Supported	SIP, TCP/UDP, RTP/RTCP, SRTP, TLS, HTTP/HTTPS, SSH, IPv6
Codecs (Audio)	G.711, G.722, G.726, G.729A/B, Opus, iLBC, GSM
Fax Support	T.38 Fax over IP
Security Features	SRTP, TLS encryption, HTTPS, SSH, 802.1X
Provisioning	Zero-config provisioning, DHCP option, auto discovery
Management Interface	Web-based GUI, CLI access
High Availability (HA)	Supported (active/passive HA configuration)
Power Supply	100–240V AC input, 12V DC output, 2A adapter
Redundant Power Input	Dual DC power input support
Mounting Type	Rack-mountable (1U) and desktop placement
Dimensions (W × D × H)	485 mm × 187.2 mm × 46.2 mm
Weight	Approx. 2.25 – 2.55 kg
Operating Temperature	0°C to 45°C
Storage Temperature	-10°C to 60°C
Humidity	10% – 90% non-condensing
LED Indicators	Power, LAN, WAN, FXS, FXO, Status
Display	LCD status display panel
Use Case	Enterprise telephony, call center, multi-site PBX, SIP trunking

