

Bid #:57-T/U/2019/52 (Annex-6)

Project: ELV work at 2nd/3rd floor and Core Switch Upgrade

Site: People's Majlis 13 Storey Extension Building

Bid Submission Date: _____

Name: _____

Sign/Seal: _____

Requirements		To be filled by Bidder/Supplier	
		Model/Qty/Yes/No	Remarks/Alternative
Network Switches	Accepted brands: Aruba, Juniper, Arista		
	Model #		
	Quantity		
	48 x 1/2.5/5 ports PoE Class 6		
	4 x SFP56		
	Layer 3 (OSPFv2, VRRP)		
	IPv4 Unicast 64000 Routes		
	4 x Transceivers of 10GBASE-LR per switch must be included. (Can be high-quality 3rd party coded transceivers)		
	Model #		
	Quantity		
	4 x LC duplex OS2 fiber patch cords (2 meter)		
	Warranty: 3 years, parts and service		
	Quantity as required for completing project (survey for BOQ)		
Network Cable Drops	4 drops to each cube		
	4 x 40 cubicles		
	All drops to be terminated into keystone jack (w/ faceplates)		
	Quantity		
	WAP drops to be terminated to keystone jacks above the ceiling		
	Quantity		
	Wiring closet to be done using high-quality 24-port patch panels		
	Patch Panel Brand:		
	Patch Panel Model:		
	Quantity		
	All horizontal cabling to be trunked in conduit.		
	Minimum 10 year guarantee for horizontal cabling		
	Quantity as required for completing project (survey for BOQ)		
Patch Cords	All patch cords must be factory-manufactured		
	Patch cords must have snag-less boots made from plastic (not rubber)		
	WAPs to be connected to keystones via Category 6A patch cords		
	6" (inches) Category 6A patch cords to be used connecting patch panels to each 48-port switch.		
	Either 10-foot or 15-foot Category 6 patch cords depending on use-case for drop.		
	Quantity as required for completing project (survey for BOQ)		
Wireless Access Points	Accepted brands: Aruba, Arista		
	Model #		
	Quantity		
	4 x APs / Floor (2nd & 3rd)		
	802.11ax (Wi-Fi 6)		
	802.3bt High Power PoE		
	OFDMA and MU-MIMO		
	Internal antennae		
	Ceiling mountable with mount		
	Ability to work with or without dedicated controller		
	Warranty: 3 years, parts and service		
	Quantity can be adjusted if bidder proposes RF survey detailing the required number and locations.		
	Regulatory domain must be complaint		
	Project to be completed within 45 Days		
	Latest recommended firmware to be provided by bidder for APs and switches.		
	Configuration: Not required		
	Configuration and authentication details will not be provided to the bidder for security purposes.		

Bid #: (LOT 2)

Project: ELV work at 2nd/3rd floor and Core Switch Upgrade

Site: People's Majlis 13 Storey Extension Building

Bid Submission Date: _____

Name: _____

Sign/Seal: _____

Requirements		To be filled by Bidder/Supplier	
		<u>Model/Qty/Y/N</u>	<u>Remarks</u>
2 x Core Switch	Brand: Dell, Edgecore (or any reputable brands running Cumulus OS)		
	Model #		
	Quantity x 2		
	48 x 25G SFP28		
	6 x 100G QSFP28		
	1x1 metre QSFP28 DAC cable to be included per switch		
	Front to Back Airflow		
	10m C13/C14 power cords		
	Cumulus Linux operating system		
	Perpetual license with 3 years support & software updates		
	License key(s) to be added to existing People's Majlis Cumulus Networks account		
	Warranty: 3 years, parts and service		
ODF	288F ODF		
	Quantity x 2		
	LC duplex OS2		
	Refer guidelines and survey for requirements		
	Horizontal cable manager with cover		
	Quantity x 5		
	24F ODF		
	Quantity x 13		
	LC duplex OS2		
Transceivers	SFP+ transceivers		
	Quantity x 155		
	10G-LR DOM		
	Dell PowerConnect compatible		
	High quality 3rd party coded transceivers		
	Model #		
	SFP Transceivers		
	Quantity x 30		
	1GBASE-LX DOM		
	Netgear compatible		
	High quality 3rd party coded transceivers		
	Model #		
Patch Cords	LC duplex OS2 patch cords		
	Quantity x 320		
	Determine required lengths after site survey		
	Indoor LSZH		
Rack	Network/Server Cabinet		
	Dimensions: 42U, 800mm x 1200mm		
	Perforated front door		
	Vertical cable managers on both sides (R&L), front & rear		
	Refer instructions guidelines for cable installation and setup		

Guideline for ELV work at 2nd and 3rd floor (Majlis Extension Building)

Network

- 4 drops to each cube
- All horizontal cabling to be trunked in conduit.
- WAP drops to be terminated to keystone jacks above the ceiling.
- All existing horizontal cable managers to be removed and each existing switch to be moved in between patch panels.
- Existing 24-port switches to be removed.
- All items in the rack to be shifted so that no gaps are present.
- All permanent links (patch panel to keystone) to be tested for continuity. Any continuity issues discovered by People's Majlis after project completion to be handled within retention period. Certification is optional.
- All drops to be labeled in a similar syntax to current port labeling standard.
- All cables to be laid in adherence to structured cabling guidelines and best practices.

Patch cords

- Slim patch cords preferable for workstations and printers.

Network switches

- Provide network switches enough to accommodate all required connections.
(Quantity as required for completing the project.)
- Switches to be racked between patch panels.

Configurations

- All configuration will be done in-house by People's Majlis ICT.
- Latest recommended firmware to be provided by bidder for APs and switches.
- Configuration and authentication details will not be provided to the bidder for security purposes.

For inquiries email to procurement@majlis.gov.mv

Guideline for ODFs & Core Switch Installation (Majlis Extension Building)

MDF Cabinet

- New 42U MDF cabinet to be placed at 7th Floor IT Server Room
- Existing 42U MDF cabinet and multimode cables to be removed after project completion

ODFs & Core Switches

- 2 x Core Switches to be installed at 7th Floor MDF
- 2 x 288F ODF to be installed at 7th Floor MDF
- 13 x 24F ODF to be installed at IDFs in each floor

Cabling and Splicing

- 24F OS2 cable to be laid from 7th floor MDF to each IDF in extension building
- All cores at both ends to be spliced
- All existing Dell PowerConnect N3000 series switch stacks to be split and re-racked.
 - Two uplinks from each Dell PowerConnect N3000 series access switch to be connected to both core switches
- One uplink from each existing Netgear CCTV access switch to be connected to core CCTV Netgear switch in 7th Floor

Documentation

- All cores/tubes to be documented and SLD to be provided to People's Majlis after project completion.

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