

SECTION TEN

10.1 BIDDING PROCESS

- Interested Bidders shall register with MOI for undertaking of complete scope of works according to the part chosen by the Bidder.
- All Bidders shall conduct site survey to all sites and networks to identify the available resources and submit report. Site visit shall be arranged for Bidders by MOI by written coordination between MOI & Bidders in advance. Site visit shall be scheduled on a particular date for all Bidders. Each Bidder shall submit the team members not more than persons per team having one Security systems expert, one networking expert and an integration expert.
- Bidder shall arrange Trial Demonstration for the proposed Solution and arrange for presentation for the respective part/parts chosen.
- All Bidders shall submit their offer in compliance with RFP and failing any of the above routines subject will cancel the Bid.

10.2 PRIME CONTRACTOR & SUBCONTRACTORS DEFINITION

The Prime contractor shall be solely responsible for fulfillment of the contract with the MOI. Use of Subcontracts must be clearly explained in the proposal, and subcontractors must be specified by name. The selected bidder shall be wholly responsible for the entire performance whether or not subcontractors are used.

10.3 SPECIAL TERMS AND CONDITIONS

- a) It is responsibility of the Bidder to coordinate with the existing contractors for the integration with the existing system without any problem.
- b) Any damages to the existing infrastructure during the implementation of the project should be rectified by the bidder without any additional charges and should to restore back to the original condition immediately.
- c) The bidder has to provide residence Engineer with CCNP qualified with a minimum 5 years' experience during the Implementation of the project.

- d) Any damages to the existing infrastructure during the implementation of the project should be rectified by the bidder without any additional charges and should to restore back to the original condition immediately.
- e) The Bidder should submit all the Implementation and configuration details and as built diagrams before the Final Acceptance of the project.
- f) The warranty of the project starts form the date of primary acceptance of the whole project.
- g) Project Handover Document should be submitted after the Completion of the Warranty period stating that all the Supplied Equipment is in working condition.
- h) The Bidder shall provide the authorization letter form the Parental Company for the Product supplied.
- i) The bidder shall mention reference of the projects that they have implemented in Kuwait along with the Bid.
- j) It is the responsibility of the Bidder to obtain permission/ approval on behalf and in the name of the company with in the timeframes as specified in the work schedule from all concerned authorities, municipal authorities and statutory bodies as applicable. The contractor shall submit copy of all correspondence, letters and applications, submitted for obtaining permission to the MOI immediately on submitting the same to the concerned authority. Any cost incurred for this will be made by the Bidder.
- k) The bidders should provide all the necessary licenses for the equipment supplied

TECHNICAL COMPILANCE FORM

Form: 1 Type - 24 ports, 1G Backbone, Managed Layer 3 Gigabit Switch

Bidder Name & Address:

Bidder Ref:

Date:

#	MOI Requirement	Company solution	Comply, Not comply Partially comply	Reference/ page Number
	Make			
	Model			
	Switch Height (RU)			
	Number of slots			
	Performance			
	Switching backplane bandwidth (min 64 Gbps)			
	Layer 2 system Throughput (Min 48 Mbps)			
	Layer 3 system Throughput (Min 48 Mbps)			
	Wire speed Non-Blocking per port			
	MAC Address Table Size			
	Hot swappable SFP ports			
	Support for IP telephony, Wireless access points			
	Support for the routing protocols like OSPF,RIPv1, RIPv2, EIGRP, BGP-4			
	Should support for TACACS+, RADIUS and SSH			
	Interface			
	24 port Auto sensing 10/100/1000 Base – T (RJ 45)			
	4 port 1000 Base –X SFP for fiber Optics (LX,SX,ZX)			
	Network Management			
	Telnet, console, HTTP, SNMP, RMON (4groups) support			
	Standards			
	IEEE 802.1x, 802.1s, 802.1D, 802.1Q, 802.1p, 802.1W, 802.2, 802.3, 802.3I, 802.3u, 802.3x, 802.3z, 802.3ab, 802.3ac,			

	802.3ad			
	Support for QoS, Access Control lists, Switch Security, 802.1p Mapping to Priority Queue, MAC Address Mapping to priority Queue, ACL Mapping to priority Queue, ACL Mapping to ToS/DSCP, ACL Mapping and Marking to ToS/DSCP, Switch QoS should also be VOIP aware (ability to detect IP phone and prioritize VOIP traffic).			
	Redundant Power supply 100-240 VAC, 50-60Hz			
	3 years comprehensive Warranty			
	Enclose the Technical Specifications of the Switch			

TECHNICAL COMPLIANCE FORM

Form: 2 Type – Fiber Optic cable, Accessories and Installation

Bidder Name & Address:

Bidder Ref:

Date:

#	MOI Requirement	Company solution	Comply, Not comply Partially comply	Reference/ page Number
	Outdoor single Mode Fiber (48 core)			
	Core Diameter 8.3 μm			
	Cladding Diameter 125 μm			
	Aramid yarn strength member			
	Low Smoke Zero Halogen, Flame retardant jacket			
	Outer Sheath or Jacket (Material & Thickness)			
	Name and country of the Manufacturer			
	Make and Model no.			
	Network Support			
	10/100 Ethernet			
	155 Mbps ATM			
	1000 Base FX			
	10G-base			
	CWDM GBIC/SFP			
	Attenuation			
	@ 1310 nm should be <=0.25 dB/km			
	@ 1550nm Should be <=0.25 dB/km			
	Physical properties			
	Maximum tensile strength During Installation During Service			
	Minimum bending radius of the cable Loaded (Specify outer diameter) Unloaded (Specify outer diameter)			

	Crush Resistance			
	Impact Resistance			
	Kink Resistance			
	Torsion resistance			
	Temperature Installation : -20C to +70 C Storage : -20 C to +70 C			
	Standards & Testing			
	ITU-T Recommendation G.653			
	IEC 60794			
	IEC 332-1			
	Flame Test;			
	List out the standards during the testing process			
	Note: Manufacturers Test reports for all above specified tests shall be submitted along with the bid.			
	Shipping Length (km)			
	Length of the delivery (Drum size)			
	Outer Diameter of the cable drum			
	Width of the cable drum			
	Weight per kilometer of cable			
	Technical brochures enclosed			
	Separately 1 feet fiber cable to be enclosed.			
	Fiber Patch Panel			
	Rack mount Enclosure (Size 1U Sliding Drawer) 24 port Make and Model			
	No of Adapter Panels 1/2			
	Should support SC Simplex, SC duplex, MT-RJ and LC Connectors			
	Rubber grommets are provided at the cable entry points for tight sealing			
	Enclose the technical specification of the Patch Panel			
	Fiber Optic Adapter Panels			

Inbuilt 24 slots for SC adaptors Simplex type Duplex type			
Cable Spools			
Flame retardant plastic, high impact resistance			
Stackable design, Sufficient room provided for storage of excess cable			
Fiber Patch Cords			
SC to SC Single mode simplex patch cord 3mm, jacked cable (one SC connector on each end)- 9/125µm			
1 meter part no.			
3 meter part no.			
SC to LC Single mode simplex patch cord , 1.6mm jacked cable (one SC connector on one end and one LC connector on the other end)-9/125µm			
1 meter part no.			
3 meter part no			
LC to LC Single mode simplex patch cord , 1.6mm jacked cable (one LC connector on each end)- 9/125µm			
1 meter part no			
3 meter part no			
SC to SC Single mode duplex patch cord, 3mm jacked cable (two SC connectors on each end)-9/125µm			
1 meter part no			
3 meter part no			
SC to LC Single mode patch cord , 1.6mm jacked cable (two SC connectors on one end and one duplex LC connector on the other end)-			

	9/125μm			
	1 meter part no			
	3 meter part no			
	Termination (per fiber)			
	Connectrization (per connector) with buffer tubing kit			
	Fixing Fiber Patch Panels			
	Testing and Report (per link)			
	Source on Power Meter test, OTDR (Soft copy as well as Hard Copy)			
	Labeling & Documentation			

TECHNICAL COMPLIANCE FORM

Form: 3 Type – Ethernet Cable (UTP), Accessories, Racks and Installation

Bidder Name & Address:

Bidder Ref:

Date:

#	MOI Requirement	Company solution	Comply, Not comply Partially comply	Reference/ page Number
	Ethernet Cable and Accessories (Comply with the Category 6 standards TIA/EIA 568-B.2-1)			
	UTP CAT6 as per EIA/TIA CAT6 Channel Performance (Box of 305 meters)			
	Single Port Face Plate (85mm x 85 mm) with CAT 6 Information Outlet			
	Dual Port Face Plate (85mm X 85 mm) with CAT 6 Information Outlet			
	Cat 6 Information Outlet (Compatibility for the above mentioned Face Plate)			
	Single Port Face Plate (85mm X 85mm)			
	Dual port Face Plate (85mm X 85mm)			
	Surface Mount Box (85mm X 85 mm X 40 mm)/Open box white color			
	1 meter CAT 6 Patch Cable			
	2 meter CAT 6 Patch Cable			
	3 meter CAT 6 Patch Cable			
	24 port CAT 6 Patch Panel 1U			
	48 port CAT 6 Patch panel 2 U			
	Cable Manager/ Horizontal Cable Organizer.			
	Height 15 U Wall Mount Rack Cabinet (Two Sections) – Glass Door trims powder coated, Ac			

	Power Distribution front panel mounting hardware, Cooling Fans. Enclose the specifications			
	Height 42 U Floor Mount Rack Cabinet (Two Sections) – Glass Door trims powder coated, Ac Power Distribution front panel mounting hardware, Cooling Fans. Enclose the Specifications			
	PVC Material and Accessories			
	Laying of UTP/FOC Cable through PVC Casing/ Channels and Capping Pipe as required.			
	Laying of CAT6 UTP Cable			
	Fixing and Termination of Information Outlet			
	Termination of CAT 6 Cable with Patch Panel			
	Fixing of 24 port /48 port patch panel			
	Labeling and documentation			
	Fixing of Cable Organizer			
	Fixing of Network Switches			
	Fixing of 15U wall mount Rack			

Form: 4 Type – Business IP Phone

Bidder Name & Address:

**Bidder Ref:
Date:**

#	MOI Requirement	Company solution	Comply, Not comply Partially comply	Reference/ page Number
	Make			
	Model			
	LCD display			
	Hands Free Speaker and Built in Hand Set			
	Adjustable Foot Stand			
	Key Pad			
	Ethernet 10/100 base TX			
	Support In line power			
	G.711 and G.729a Audio Compression			
	Microsoft NetMeeting Compatibility			
	Muilti Protocol Supporting (SIP, MGCP,SCCP)			
	Network Configuration Menu			
	Call Status Display			
	Message Waiting Indicator			
	Standards Supported			
	Operating temperature			
	Enclose the Specifications for the IP Phone			

Bill of quantity

The below table shows the Bill of Quantities required for the 18 posts:

#	Description	
	Switch 24 port, L2/3/4 Switch	
	1GB GBIC SFP	
	Nodes (LAN Points)	
	Business IP Phones	
	UPS	
	Single Mode FOC cable	
	CAT 6 Cable	
	15U wall mount Rack	
	15U Floor Mount Rack	
	UTP patch Panel 24 port	
	Fiber Patch Panel 24 port	
	UTP Face Plates 2 ports	
	UPT Patch cords	
	Fiber Patch Cords	
	PVC conduit, Power sockets, Electrical Breakers (As required during Installation)	
	Laying of UTP, FOC Cables , termination of UTP and FOC Cables(As required during installation)	

The above bill of quantity shows the tentative requirement of the equipment. It is the responsibility of the Bidder to provide additional switches, Fiber equipment, etc., required to satisfy the project requirement.

The bidder should clearly mention the bill of quantity along with the Part numbers and total Quantity of each items in the Technical Proposal document to meet the project requirement.