



# **ICT INFRASTRUCTURE FOR GOVT. OF KP FOR**

## **PACKAGE – I**

**(Upgradation/Expansion of Hardware / Allied  
Hardware)**

## **PACKAGE – II**

**(Renewal / Purchase of Licenses)**

## **PACKAGE – III**

**(Service Level Agreement)**

## **PACKAGE – IV**

**(Passive Network Service Level  
Agreement)**

# **RFP FOR THE UPGRADATION/ EXPANSION OF ICT INFRASTRUCTUR E FOR GOVT. OF KP**

**SCIENCE & TECHNOLOGY AND INFORMATION TECHNOLOGY DEPARTMENT  
GOVERNMENT OF KHYBER PAKHTUNKHWA**

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**Important Note:**

Bidders must ensure that they submit all the required documents indicated in the Bidding Documents without fail. Bids received without, undertakings, valid documentary evidence, supporting documents and the manner for the various requirements mentioned in the Bidding Documents or test certificates are liable to be rejected at the initial stage itself. The data sheets, valid documentary evidences for the critical components as detailed hereinafter should be submitted by the Bidder for scrutiny.

**Applicability of Khyber Pakhtunkhwa Public Procurement Rules, 2014**

This Bidding Process will be governed under Khyber Pakhtunkhwa Public Procurement Rules, 2014, as amended from time to time and instructions of the Government of Khyber Pakhtunkhwa received during the completion of the project.

## 1. Invitation to Bid

### 1.1 KPPRA RULES TO BE FOLLOWED

Khyber Pakhtunkhwa Public Procurement Rules, 2014 will be strictly followed. These may be obtained from KPPRA's website.

<http://kppra.gov.pk/download/?action=procurement%20rules>

In this document, unless otherwise mentioned to the contrary, "Rule" means a Rule under Khyber Pakhtunkhwa Public Procurement Rules, 2014.

### 1.2 MODE OF ADVERTISEMENT(S)

As per Rule 11(1&2), this Tender is being placed online at [stt.kp.gov.pk](http://stt.kp.gov.pk) and KPPRA websites [kppra.gov.pk](http://kppra.gov.pk) as well as being advertised in print media.

### 1.3 TYPE OF OPEN COMPETITIVE BIDDING

As per Rule 6(2)(b) Single Stage - Two Envelope Bidding Procedure shall be followed. The said procedure is reproduced as follows:

- (i) this method shall apply to large and complex contracts;
- (ii) bidders for this method shall be pre-qualified;
- (iii) each bid shall comprise a single package containing two separate envelopes. Each envelope shall contain separately the technical proposal and the financial proposal;
- (iv) the envelopes shall be marked as technical proposal and financial proposal in bold and legible letters to avoid confusion;
- (v) the envelope marked as technical proposal shall contain:
  - (a) the experience and past performance in the execution of similar contracts;
  - (b) the capabilities with respect to personnel and ICT equipment;
  - (c) the financial status and capacity; and
  - (d) any other information asked for by the procuring entity in the notice inviting tenders;
- (vi) the second envelope marked as financial proposal shall contain the price quoted by the bidders and be retained in the custody of the procuring entity without being opened;
- (vii) the procuring entity shall evaluate the technical proposal on the basis of criteria specified in the tender documents without reference to the price and reject any proposal which does not conform to the specified requirements. During the technical evaluation, no amendment in the technical proposal shall be permitted. A list of technically qualified bidders shall be finalized in this manner;
- (viii) After the evaluation and approval of the technical proposals the procuring entity, shall at a time within the bid validity period, publicly open the financial proposals of the technically accepted bids only. The financial proposals found technically non-responsive shall be returned un-opened to the respective bidders; and
- (ix) the bid found to be the highest ranked (technical and financial) best evaluated bid shall be accepted;

## 2. Bidding Details (Instructions to Bidders)

All bids must be accompanied by Bid Security (Earnest Money) as part of Financial bid and as per provisions of the clause "Bid Security" of this document in the form of CDR in favor of

**“Additional Secretary ST&IT Department.** The complete bids as per required under this tender document must be delivered to ST&IT Department SDU Building Khyber road Peshawar , not later than **11:30 AM** on last date of submission of bids i.e. **30-09-2020**, late bids shall not be considered. Vendors will not be allowed to influence the committee for inclusion of proposal after due time mention for proposal consideration. The Technical bids shall be publicly opened in the Committee Room of ST&IT Department on the same date i.e 30-09-2020 at 11:30 AM. In case the last date of bid submission falls in / within the official holidays / weekends of the Purchaser, the last date for submission of the bids shall be the next working day.

Queries of the Bidders (if any) for seeking clarifications regarding the specifications of the services must be received in writing to the Purchaser till **21<sup>st</sup> September, 2020**. Any query received after said date shall not be entertained. All queries shall be responded to within due time. ST&IT Department will host a Pre-Bid meeting session on **21<sup>st</sup> September, 2020 at 02:00 AM** at ST&IT Department premises.

The bidder shall submit bids which comply with the Bidding Document. Alternative bids shall not be considered. The attention of bidders is drawn to the provisions of this tender document Clause regarding **“Determination of Responsiveness of Bid” and “Rejection / Acceptance of the Tender”** for making their bids substantially responsive to the requirements of the Bidding Document.

It shall be the responsibility of the Bidder that all factors have been investigated and considered while submitting the Bid and no claim whatsoever including those of financial adjustments to the contract awarded under this Bid Process will be entertained by the Purchaser. Neither any time schedule, nor financial adjustments arising thereof shall be permitted on account of failure by the Bidder.

It must be clearly understood that the Terms and Conditions and Specifications are intended to be strictly enforced. No escalation of cost except arising from increase in quantity by the Bidder on the demand and approval of the Purchaser will be permitted throughout the period of completion of the contract.

The Bidder should be fully and completely responsible for all the deliveries and deliverables to the Purchaser.

The Primary Contact & Secondary Contact for all correspondence in relation to this bid is as follows:

**Primary Contact**

Muhammad Zulfiqar Khan,  
Manager KP Data Center,  
Email: [zulfiqar@kp.gov.pk](mailto:zulfiqar@kp.gov.pk)  
ST&IT Department  
Khyber Road, Peshawar.

**Secondary Contact**

Umer Hayat Shah,  
Manager Networks,  
Email: [umerhayatshah@gmail.com](mailto:umerhayatshah@gmail.com)  
ST&IT Department  
Khyber Road, Peshawar.

Bidders should note that during the period from the receipt of the bid and until further notice

from the Primary Contact, all queries should be communicated via the Primary Contact and in writing (e-mail) only. In the case of an urgent situation where the Primary Contact cannot be contacted, the bidder may alternatively direct their enquiries through the Secondary Contact.

Bidders are also required to state, in their proposals, the name, title, contact number (landline, mobile), fax number and e-mail address of the bidder's authorized representative through whom all communications shall be directed until the process has been completed or terminated.

The Purchaser will not be responsible for any costs or expenses incurred by bidders in connection with the preparation or delivery of bids.

Failure to supply required items/services within the specified time period will invoke penalty as specified in this document.

### 3. TERMS AND CONDITIONS OF THE TENDER

#### 3. Definitions

In this document, unless there is anything repugnant in the subject or context:

- 3.1 "Authorized Representative" means any representative appointed, from time to time, by the Client, the Purchaser or the Contractor.
- 3.2 "Availability and Reliability" means the probability that a component shall be operationally ready to perform its function when called upon at any point in time.
- 3.3 "Client" means the Project lead of technical wing of the Purchaser for whose' particular project the Goods/Services have been procured or any other person, duly appointed in writing, by the Client, for the time being or from time to time, to act as Client for the purposes of the Contract.
- 3.4 "Bidder/Tenderer" means the interested Firm/Company/Supplier/Distributors that may provide or provides the I.T services to any of the public/private sector organization under the contract and have registered for the relevant business thereof.
- 3.5 "Commencement Date of the Contract" means the date of signing of the Contract between the Purchaser and the Contractor.
- 3.6 "Contract" means the agreement entered into between the Purchaser and the Contractor, as recorded in the Contract Form signed by the parties, including all Schedules and Attachments thereto and all documents incorporated by reference therein.
- 3.7 "Contractor / Vendor" means the Tenderer whose bid has been accepted and awarded Letter of Acceptance for a specific item followed by the signing of Contract.
- 3.8 "Contract Price" means the price payable to the Contractor under the Contract for the full and proper performance of its contractual obligations.
- 3.9 "Contract Value" means that portion of the Contract Price adjusted to give effect to such additions or deductions as are provided for in the Contract which is properly apportionable to the Goods or Services in question.
- 3.10 "Defects Liability Expiry Certificate" means the certificate to be issued by the Client to the Contractor, in accordance with the Contract.
- 3.11 "Day" means calendar day.
- 3.12 "Defects Liability Period" means the period following the taking over, during which the Contractor is responsible for making good, any defects and damages in Goods and Services provided under the Contract.
- 3.13 "Force majeure shall mean any event, act or other circumstances not being an event, act or circumstances under the control of the purchaser or of the contractor. Non-

availability of materials/supplies or of import license or of export permit shall not constitute Force majeure.

- 3.14 "Goods" means hardware, equipment, machinery, and/or other materials which the Contractor is required to supply to the Purchaser under the Contract.
- 3.15 "Person" includes individual, association of persons, firm, company, corporation, institution and organization, etc., having legal capacity.
- 3.16 "Prescribed" means prescribed in the Tender Document.
- 3.17 "Purchaser" means ST&IT Department or any other person for the time being or from time to time duly appointed in writing by the Purchaser to act as Purchaser for the purposes of the Contract.
- 3.18 "Origin" shall be considered to be the place where the Goods are produced or from where the Services are provided. Goods are produced when, through manufacturing, processing or assembling of components, a commercially recognized product results that is substantially different in basic characteristics or in purpose or utility from its components. The origin of Goods and Services is distinct from the nationality of the Contractor.
- 3.19 "Services" means the services provided / required under the clause (6).
- 3.20 "Taking-Over Certificate" means the certificate to be issued by the Client to the Contractor, in accordance with the Contract.
- 3.21 "Works" means work to be done by the Contractor under the Contract.
- 3.22 "Eligible" is defined as any country or region that is allowed to do business in Pakistan by the law of Government of Pakistan

#### 4. Headings and Titles

In this document, headings and titles shall not be construed to be part thereof or be taken into consideration in the interpretation of the document and words importing the singular only shall also include the plural and vice versa where the context so requires.

#### 5. Notice

- 5.1 In this document, unless otherwise specified, wherever provision is made for exchanging notice, certificate, order, consent, approval or instructions amongst the Contractor, the Purchaser and the Client, the same shall be:
  - 5.1.1 in writing;
  - 5.1.2 issued within reasonable time;
  - 5.1.3 served by sending the same by courier or registered post to their principal office in Pakistan or such other address as they shall notify for the purpose; and
  - 5.1.4 The words "notify", "certify", "order", "consent", "approve", "instruct", shall be construed accordingly.

## 6 . Tender Scope

**6.1 PACKAGE – I – (UPGRADATION/EXPANSION OF HARDWARE / ALLIED EQUIPMENT)  
(TURNKEY)**

**6.2 PACKAGE – II – RENEWAL / PURCHASE OF LICENSES SOFTWARE LICENSES  
(TURNKEY)**

**6.3 PACKAGE – III – SERVICE LEVEL AGREEMENT (PRIMARY SITE / DISASTER  
RECOVERY SITE)**

**6.4 PACKAGE – IV - SERVICE LEVEL AGREEMENT (PASSIVE NETWORK, FIBER, WIRELESS  
ETC.)**



## **PACKAGE – I – (UPGRADATION/EXPANSION OF HARDWARE / ALLIED EQUIPMENT) (TURNKEY)**

### **1) Scope**

Science & Technology and Information Technology Department intends to procure and deploy Hardware, Allied Equipment's, and a comprehensive infrastructure from leading organizations/vendors providing such solutions globally. ST & IT Department wants to enhance and upgrade the Centralized Repository of Data, Information & Services. This repository aims at hosting of Provincial Departments' portal applications to bring transparency & efficiency and also hosting of websites and application for online availability of government services for the general public.

The main objective to establish centralized repository has been achieved through establishment of Data Center with the global standards identified by Institute of Electrical & Electronic Engineering (IEEE). The Data Center has the following characteristics which need to be upgraded and enhanced due to a drastic increase in Data

- Blade Servers
- Backup Solution (hardware based)
- Storage - All Flash 50TB Useable
- SAN switch
- Cisco Nexus 5k 40 G 4 Port Module
- Laptops
- 65 Inch LED Smart Screen
- Miscellaneous

### **2) Proposed System**

Hardware Allied Equipment solution components required by the ST & IT Department are given below:

- Blade Servers
- Backup Solution (hardware based)
- Storage - All Flash 50TB Useable
- SAN switch
- Cisco Nexus 5k 40 G 4 Port Module
- Laptops
- 65 Inch LED Smart Screen
- Miscellaneous

### **3) Solution Scoping Parameters**

Bidders would be required to provide High End Server Specification mentioning total CPU, Size, RAM size, Blade Chassis, Blade Server Specifications, installation of Backup Solution (hardware based), Storage - All Flash 50TB Useable, SAN switches specifications, Laptops and LED Specification. Based on the above scoping parameters and sizing requirements defined in this section of this RFP, Bidders will be required to design and deploy their solution.

### **4) Location of the Project.**

Solution and all Services are required to be deployed and delivered onsite in Peshawar Data Center KP Site but the deployed solutions will have to be accessible

through secure channels to the relevant users of the solution which might be located anywhere.

**5) Hardware Specifications:**

The Hardware Specifications to be provided by ST & IT Department for this ongoing project would include the following:

**a. Blade Servers**

Description	Quantity
<b>PowerEdge M640 Server</b>	<b>10</b>
Intel Xeon Gold 6226 2.7G, 12C/24T, 10.4GT/s, 19.25M Cache, Turbo, HT (125W) DDR4-2933	2
Additional Processor Selected	1
iDRAC Group Manager, Enabled	1
CFG-No PSU Selection for Single Node Shipping	1
Chassis with up to 2 SAS or SATA Hard Drives (PERC required) MLK	1
Regulatory Label for PowerEdge(TM) M640	1
System Info Label for PowerEdge(TM) M640 (APCC,TW)	1
Documentation for M640	1
Ship Mod for PowerEdge(TM) M640 (APCC,TW)	1
14G OpenManage placemat	1
Shipping Material, Individual Blade, PowerEdge M640	1
2933MT/s RDIMMs	1
Performance Optimized	1
M.2 Blank Riser for C6420	1
32GB RDIMM, 2933MT/s, Dual Rank	16
iDRAC9,Enterprise	1
600GB 15K RPM SAS 12Gbps 512n 2.5in Hot-plug Hard Drive	2
H730P Controller	1
Performance BIOS Settings	1
Heatsink for CPU2	1
Trusted Platform Module 1.2	1
Modular Shipping Label	1
QLogic 57810-k Dual port 10Gb KR CNA Blade Network Daughter Card	1
No Fabric B I/O Card	1
No Operating System	1
No Systems Documentation, No OpenManage DVD Kit	1
For SADMG Countries only - No Installation Service Required	1
<b>RAID 1</b>	<b>1</b>
UEFI BIOS Boot Mode with GPT Partition	1
Basic Next Business Day 36 Months-Emerging DBS	1
ProSupport and Next Business Day Onsite Service Initial-Emerging DBS, 36 Month(s)	1
INFO: Thank you for choosing Dell	1
Mod Specs Info (SADMG)	1
PowerEdge-002 Handling & Insurance Charges(DDD PkNpBgAfSr)	1
VMware ESXI (Enterprise Plus Licenses)	10

V Center (Enterprise Plus License)	1
KP Data Center Team Local VMware Training	5

**b. Backup Solution :**

<b>Integrated Backup Appliance: Qty=02 (Primary and DR)</b>	
<b>Product Name</b>	<b>Quantity</b>
<b>Integrated Backup Appliance (Primary and DR) DP4400-48TB</b>	<b>2</b>
<b>Continuous Data Protection and Replication Solution for VMs/Socket License</b>	<b>14</b>
<b>Criteria</b>	
<b>Architecture</b>	Purpose built integrated backup appliance based on software defined/vmware based backup server and backup storage with native capability of data deduplication
<b>Capacity</b>	<b>48TB</b> usable capacity (post-RAID capacity ignoring dedupe factor) with in-line, variable length global deduplication (i.e. global deduplication irrespective of number of logical containers or backup devices created/used in the system)
<b>Scalability</b>	Should provide data in place upgrade and scalability to <b>90TB</b> or more post-RAID capacity in the same chassis in 2u form factor. Can use object storage as external tier for long term retention.
<b>Protection and Fault Tolerance</b>	Must have robust FT and self healing mechanism. E.g. RAID with hotspare, end-to-end verification without performance degradation, snapshots to protect against physical and logical failures . System should be able to survive double disk failure. Proposed model should support to be deployed/upgraded to redundant controller for High Availability.
<b>Cleanup/Housekeeping</b>	System should have seamless self-maintenance and housekeeping mechanism (e.g. cleanup, garbage collection)
<b>Deduplication Technology</b>	Solution should offer In-line variable length and global deduplication. Solution must also support source side deduplication and any required deduplication license(s) must be included.
<b>Connectivity</b>	Should have 10G/1GbE. Must support IPv4, IPv6.
<b>Protocols</b>	Should support multiple backup protocols (NFS, CIFS, Boost and any other recommended proprietary protocol) simultaneously. All protocol licenses must be included.
<b>Throughput</b>	Can handle <b>8TB/Hr</b> or more throughput using the proposed protocol(s)
<b>Application/DB Direct Integration Support</b>	Should support integration with industry leading native utilities (Oracle RMAN, BR*Tools, MSSQL backup)
<b>Platforms Compatibility</b>	Should support integration with open systems, and any other specialized platforms
<b>Security and Encryption</b>	Should support strong encryption of data-at-rest/in replication. Required license should be included. Solution must meet compliance standards
<b>Replication</b>	Network optimized replication with capability of bandwidth throttling. Solution must support 1:1, many:1, 1:many, and cascaded replication. Required replication license(s) should be included for entire capacity.
<b>Features and clients</b>	Licensing should include entitlement of all software features and unlimited number of backup servers and clients.

<b>OS/Platform Support</b>	Must support physical and virtual servers backups. Vmware, Hyper-V, Windows, AIX, Linux.
<b>Applications and DB Integration</b>	Should support application consistent backups of all major DBs and Apps including Oracle, MS SQL, Microsoft Exchange, DB2, SAP with granular recovery. Should also provide Block level backups of Microsoft Exchange and Hyper-V with consistency
<b>Efficiency</b>	<ul style="list-style-type: none"> <li>- Virtual Synthetic/Always Full backups,</li> <li>- Flexible and scalable image level backups with CBT for backup and recovery. Guest level backup/recovery for application consistency.</li> </ul>
<b>Scalability</b>	Proposed solution must be able handle growth and large scale for hundreds/thousands of clients under a single control server. Solution must have native ability to offload long term retention data to cloud storage.
<b>Management and Monitoring</b>	<p>Should have simple to define and use workflows for automation of data protection.</p> <ul style="list-style-type: none"> <li>- Should have centralized user interface for managing and monitoring end to end backup environment from a single dashboard.</li> <li>- Advance/comprehensive monitoring and reporting capability is desirable with score cards and end-to-end visibility of environment and recoverability.</li> <li>- Should provide an intuitive search interface to perform file search across all the stored backup images and fetch search results for recovery.</li> <li>- Should provide single/consolidated software release train for upgrades and patches to avoid any compatibility or management issues.</li> </ul>
<b>Support</b>	<b>3 year warranty</b>
<b>Continuous Data Protection and Replication Solution for VMs</b>	
Quantity: 200 x VMs or equivalent	
<b>S/N</b>	<b>Specification</b>
1	The proposed replication software must provide local and remote protection of Vmware VMs
2	It must provide the ability to perform synchronous as well as asynchronous replication (zero/near zero RPO) over any distance with efficient WAN bandwidth utilization
3	The proposed software must work at the hypervisor level and have no dependency on the type or make of the underlying storage. It must be infrastructure agnostic and support any storage such as FC, iSCSI, NAS, DAS or VSAN.
4	The proposed replication software must support continuous data protection to any point in time recovery at the virtual machine level and it must provide inbuilt ability to perform DR orchestration workflows
5	the proposed software must support multi site replication. It should support up to 4 replica copies for each protected virtual machine. The appliances should be software only solution must be deployed in clusters and support up to 8 appliances within a cluster
6	It must support replication of virtual disk as well as Raw device mappings (RDM) disks within a virtual machine.

7	It must support flexible deployment models by using virtual appliances and virtual disks for it's journaling volumes. The architecture of the solution must have no single point of failure.
8	Each appliance must support up to 4 network interfaces for high redundancy and support DHCP
9	It must provide API's to enable deployment workflow automation.
10	It must support automatic provisioning of target VM's as well as the journals.
11	It support provide application consistency and It must provide the flexibility to exclude virtual disks from the replication
12	It must support automatic inclusion of new virtual disks for replication whenever it gets added to already configured virtual machine. It must not require the VM admin to configure the changes through the management UI.
13	The proposed software must provide the ability to perform DR tests without actually failing over the Production volumes. During these drills/tests the Production volumes must be unaffected and should continue their normal operations.
14	The software must be able to failover an individual or group or complete site to another site.
15	It must provide automated failover or failback to any point in time
16	It must support Re IP configuration during the recovery process
17	It must provide a non-disruptive process to perform upgrades of the appliances (both software as well as hardware).
18	It must support synchronous local replication as well as remote replication.
19	The proposed software must support defining of the power up sequence during a fail over process.
20	The proposed software must integrate with the Vmware vCenter to provide simplified management of the entire virtualized environment. It must monitor VM topology and resource metrics via integration with the VMware's vRealize Operations

## C. Storage

### All Flash 50TB Useable

S.No.	Item	Description	Qty
1	M-PSM-HWE-005	PROSUPPORT 4HR/MC HARDWARE SUPPORT	1
2	D4BD6C25FAF	UNITY 380F DPE 25 X 2.5 DELL FLD RCK	1
3	D4SFP16FAF	UNITY CNA 4X16GB FC SFPS AF	1
4	D4F-2SFXL2-3840	D4F 3.84TB ALL FLASH 25X2.5 SSD	18
5	D4ODPEKITAF	UNITY 380F DPE INSTALL KIT	1
6	CS-OPT-UXAF-MON-1Y	OPTIMIZE FOR UNITY AFA MON 1YEAR	1
7	458-002-526	UNITY AFA BASE SOFTWARE=IC	1

8	M-PSM-SWE-005	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
9	458-001-734	APPSYNC BSC FOR UNITY 300F/350F/380F=IC	1
10	M-PSM-SWE-005	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
11	458-002-628	STORAGE M+R FOR UNITYXT = IC	1
12	M-PSM-SWE-005	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
13	458-001-585	RP BASIC FOR UNITY380F/480F/680F/880F=IC	1
14	M-PSM-SWE-005	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1

**d. SAN Switches:**

SAN Switches		
Product Name	Product Description	Qty
S4112F-ON	SAN Switches	2

**e. Cisco Nexus 5k Switch 40 G Module**

Cisco Nexus 5k 40 G 4 Port Module		
Product Name	Product Description	Qty
Cisco Switch Module	Part Number : N55-M4Q, Description: 4-port QSFP expansion module	2
	Part Number : QSFP-H40G-CU5M Description: Cisco 40GBASE-CR4 QSFP+ direct-attach copper cable, 5m, passive	8

**f. Laptops :**

14" Notebook		
Product Name	Product Description	Qty
Screen Size	14" Inches	7
Processor	Core i7 10th generation processor	
HDD	500 GB SSD	
RAM	8GB or higher	
Battery	3 Cell 42 hrs Battery	
Wireless	Integrated Dual Band Wireless	
Bluetooth	5.0 Bluetooth	
Camera	Integrated Widescreen HD (720p) Webcam	
Graphics	Integrated Graphics	
Carry Case	OEM Original carry case.	
Warranty	OEM 3 Year standard warranty	

**g. 65 Inch LED Smart Screen :**

Product Name	Product Description	Qty
65" LED	65" smart LED TV with touch screen	2

**h. Miscellaneous**

S.No.	Product Description	Qty
1	Baynet LAN Roles	05
2	Wi-Fi Router	20
3	Network Engineer Kit	3

**Vendor's Capabilities, Responsibilities and Requirements:**

Selected vendor will be responsible for:

- Vendors or JV partners should have at least 10 years of experience in dealing with same nature scope of work. Incase of JV partner the lead firm / principal partner should have at least 10 years of experience.
- Vendors or JV partners should be authorize partners of the manufacturers.
- Local presence of the bidders is required in Peshawar.
- Integration of new hardware with existing hardware deployed in the KP Data Center at Primary and DR Site. Warranty period of the above mentioned Blade Servers, Backup Solution, Storage - All Flash 50TB Useable should be specified before its starting Time period.
- Vendor or JV Partner should provide support for atleast one year whereby the vendor will be responsible to provide skilled and specialized resources to ST & IT Department for providing services in different roles including:
  - o Server Deployment Engineers
  - o Server Team lead
  - o Network Team lead
  - o Network Deployment Engineers
  - o Server Deployment Specialists
  - o Network Deployment Specialists
  - o SAN (Storage Area Network) Specialist
- Having pool of human resources available in Pakistan/Peshawar, where the ST & IT Department head office is located.
- Providing the architecture with industry-leading performance and scalability via optimized hardware and software configuration. Providing truly enterprise-ready software and hardware management for the entire system.
- Provide support and maintenance services onsite with high service levels. Bidders should describe their support mechanism and process and how they will ensure minimum down time due to any hardware / software related issues.
- ST & IT Department has the right to increase/decrease number of hardware deliverables keeping in view the availability of the budget

**i. Deliverables:**

ST&IT Department expects the best practices to be followed by the vendors in providing such services ensuring that all the recommended deliverables are delivered professionally and timely in every phase of the project. Following is the list of deliverables that would be required before and during the implementation and after the completion of these services:

- Blade Servers
- Backup Solution (hardware based)
- Storage - All Flash 50TB Useable
- SAN switch
- Cisco Nexus 5k 40 G 4 Port Module
- Laptops
- 65 Inch LED Smart Screen
- Miscellaneous



**PACKAGE – II – RENEWAL / PURCHASE SOFTWARE LICENSES**  
**(TURNKEY)**

1) **Scope**

Science & Technology and Information Technology intends to procure and Deploy Software Licenses from leading organizations/vendors providing such solutions globally. ST & IT Department wants to renew its Firewalls Licenses for its Centralized Repository of Data, Information & Services. This repository aims at hosting of Provincial Departments' portal applications to bring transparency & efficiency and also hosting of websites and application for online availability of government services for the general public.

The main objective to establish centralized repository has been achieved through establishment of Data Center with the global standards identified by Institute of Electrical & Electronic Engineering (IEEE). The Data Center has the following characteristics which need to be upgraded and enhanced due to a drastic increase in Data

- A) Firewall Licensing 3040B
- B) Firewall Licensing 1500D
- C) IP Class
- D) Imunify 360 C Panel firewall
- E) WHM Renewal

2) **Proposed System**

Licensing solution components required by the ST & IT Department are given below:

- A) Firewall Licensing 3040B
- B) Firewall Licensing 1500D
- C) IP Class
- D) Imunify 360 C Panel firewall
- E) WHM Renewal

3) **Solution Scoping Parameters**

Bidders would be required to provide Expertise for Firewall Licensing, its installation on Premises and configuration of Licenses on Firewall.

Based on the above scoping parameters and sizing requirements defined in this section of this RFP, Bidders will be required to design and deploy their solution.

4) **Location of the Project.**

Solution and all Services are required to be deployed and delivered onsite in Peshawar Data Center KP Site but the deployed solutions will have to be accessible through secure channels to the relevant users of the solution which might be located anywhere.

5) **Software License Specifications:**

- The Software License Specifications to be provided by ST & IT Department for this ongoing project would include the following:

	<b>Product Name</b>	<b>Model</b>	<b>Description</b>	<b>Quantity</b>
<b>1</b>	Firewall Licenses	<b>3040 B</b>	Firewall (UTM) bundled licenses (Renewal for Firewall Fortinet FortiGate 3040b (UTM) Bundled Licenses for 3 Years)	<b>2</b>
<b>2</b>	Firewall Licenses	<b>1500 D</b>	Firewall (UTM) bundled licenses (Renewal for Firewall Fortinet FortiGate 1500D Bundled Licenses for 3 Years)	1
3	IP Class		256 Public IP Addresses	1
4	Imunify 360 C Panel firewall		2 years	15
5	WHM Renewal		1 year	15

Bidders should articulate their experience of working with and managing all the potential data sources listed above.

**6) Vendor’s Capabilities, Responsibilities and Requirements:**

Selected vendor will be responsible for:

- Vendors or JV partners should have at least 10 years of experience in dealing with same nature scope of work. In case of JV partner the lead firm / principal partner should have at least 10 years of experience.
- Vendors or JV partners should be authorized partners of the manufacturers.
- Local presence of the bidders is required in Peshawar.
- Integration of new hardware with existing hardware deployed in the KP Data Center at Primary and DR Site. Warranty period of the above mentioned Blade Servers, Backup Solution, Storage - All Flash 50TB Useable should be specified before its starting Time period.
- Vendor or JV Partner should provide support for at least one year whereby the vendor will be responsible to provide skilled and specialized resources to ST & IT Department for providing services in different roles including:
  - Firewall Deployment Engineers
  - Firewall Team lead
  - Firewall Deployment Specialists
- Having pool of human resources available in Pakistan/Peshawar, where the ST & IT Department head office is located.
- Providing the architecture with industry-leading performance and scalability via optimized hardware and software configuration. Providing truly enterprise-ready software and hardware management for the entire system.
- Provide support and maintenance services onsite with high service levels. Bidders should describe their support mechanism and process and how they will ensure minimum down time due to any hardware / software related issues.

- ST & IT Department has the right to increase/decrease number of hardware deliverables keeping in view the availability of the budget

**7) Deliverables:**

ST & IT Department expects the best practices to be followed by the vendors in providing such services ensuring that all the recommended deliverables are delivered professionally and timely in every phase of the project. Following is the list of deliverables that would be required before and during the implementation and after the completion of these services:

- A) Firewall Licensing 3040B
- B) Firewall Licensing 1500D
- C) IP Class
- D) Immunify 360 C Panel firewall
- E) WHM Renewal

# **PACKAGE – III – SERVICE LEVEL AGREEMENT (PRIMARY / DISASTER RECOVERY SITE ) (TURNKEY)**

## **1 Tender Scope**

ST&IT Department , (hereinafter referred to as “the Purchaser”) invites / requests Proposals (hereinafter referred to as “the Tenders”) for two years SLA (Service Level Agreement of Primary Data Center site at Peshawar and Disaster Recovery (DR) Site at D.I.Khan. list of the installed equipment for which SLA is required are placed at Annexure L .

## **2 Proposed Work**

ST&IT Department is interested in a long term relationship with an innovative market-leading Solution provider with well reputed experience in provision of services for Data Center which is compatible with current integrated technologies and scalable for future extension/ expansion. It is intended that these services are required for the period of Two Years. ST&IT Department, however, reserves the right to acquire components outside this relationship where the Solution Provider does not offer a suitable product or service that meets the project needs. The relationship may also be terminated (is not appropriate as per requirement of ST & IT Department) in the event that the vendor or its product lines fail to hold a leading market position that is relevant to evolving needs of ST & IT Department.

## **3 Solution Scoping Parameters**

Bidder must have expertise in Providing Service Level Agreement (SLA) Services to Data Center which include Hardware Maintenance, HVAC Maintenance, Power Equipment and Network Equipment Maintenance. Already being shortlisted under Expression of Interest in which eligibility requirements of the SLA were mandatory, i.e. must be registered with Tax Authorities as per prevailing latest tax rules (Only those companies which are validly registered with sales tax and income tax departments and having sound financial strengths can participate); has valid Registration of General Sales Tax (GST), Khyber Pakhtunkhwa Revenue Authority (KPRA) & National Tax Number (NTN); valid License from Pakistan

Company has not been blacklisted by any of Provincial or Federal Government Department, Agency, Organization or autonomous body or Private Sector Organization anywhere in Pakistan (Submission of undertaking on legal stamp paper is mandatory), failing which will cause rejection of the bid;

Has the required relevant qualified personnel and enough strength to fulfill the requirement of assignment.

Conforms to the clause of “Responsiveness of Bid” given herein this tender document.

Goods and Services can only be supplied / sourced / routed from “origin” in “eligible” member countries.

“Eligible” is defined as any country or region that is allowed to do business in Pakistan by the law of Government of Pakistan.

**Note:** Verifiable documentary proof for all above requirements is a mandatory requirement, noncompliance will lead to disqualification.

## **4 Location of the Project.**

Solution and all Services are required to be deployed and delivered onsite in Peshawar Data Center KP Site but the deployed solutions will have to be accessible through secure channels to the relevant users of the solution which might be located anywhere.

## **5 Vendor's Capabilities, Responsibilities and Requirements:**

Vendor shall be obligated to provide the services through its office at Peshawar under this agreement for Maintenance of KP official Data Centre Infrastructure at Primary & DR side (Peshawar & DIKHAN) but not limited to following equipment.

- 1- Electrical Panel
- 2- UPS, PDPM, RACK and STS
- 3- CRAC (Stulz, HVAC, etc)
- 4- Raised Floor with stringers
- 5- Fire Detection and Suppression system
- 6- Firewall (FortiNet Forti Gate) 3040B
- 7- Optical Fiber Cabling Deployed between Data Center and different departments of Civil Secretariat with all network equipment.
- 8- Layer 2 Network Switches ( Cisco Catalyst )
- 9- Core Network Switches ( Cisco NEXUS 5596 ) (Primary and DR Site )
- 10- Core Router (Primary and DR Site )
- 11- Twin Blade Servers and Chassis ( Super Micro ) (DELL Blades)(Primary and DR Site )
- 12- Storage Servers (SAN) (Super Micro)(DELL Storage) (Primary and DR Site )
- 13- VoIP Controller ( Cisco CUCM Manager)
- 14- VoIP Phones (CP -7945G Cisco VoIP Phone) (CP -8841G Cisco VoIP Phone)
- 15- Wireless Controller ( AIR-CT5508-K9)
- 16- Wireless Access Points (AIR-CAP2602E-E-K9) (AIR-AP2802I-G-K9)
- 17- Generators (2 150 KVA Perkins Primary Site ) (80 KVA Perkins DR Site)
- 18- Security Access Control, CCTV Camera & Recording, Motion Sensors
- 19- Earthing System
- 20- Environmental Monitoring Solution & Structure Ware Software
- 21- Rodent Repellent and Lights
- 22- TIA 942 Tier 3 Certification
- 23- Data Center Audit (detail in Annexure M)
- 24- Any other equipment which in the opinion of ST & IT Department required maintenance for the purpose of this agreement.
- 25- Vendor should depute four (4) Network Engineer at KP Data Center PR and DR Site.
- 26- Vendor Should depute one (1) Penetration Tester at KP Data Center PR Site.
- 27- Replacement of Super Storage SSG-6047R-E1R36N with Dell EMC ME4024 (32 TB) Storage Array.
- 28- ST & IT Department has the right to increase/decrease duration/period of SLA based on the availability of the budget and satisfactory performance.
- 29- Enterprise Level Support for all the hardware (Firewalls , Storages , Blades etc) mentioned in Annexure - L

## **6 Deliverables:**

ST&IT Department expects the best practices to be followed by the vendors in providing such services ensuring that all the recommended deliverables are delivered professionally and timely in every phase of the project. Following is the list of deliverables that would be required before and during the implementation and after the completion of these services:

S.No	Component	Scope of Work under SLA	Remarks
1	Hardware	All hardware equipment installed at Data Center (Primary Site & DR Site) will be part of scope of work. i.e. Blade Servers, Blade chassis, Storages, Firewalls, Fire Suppression, Smoke Detection, Racks, etc. All Hardware equipment specified or not specified will be part of scope of work and Solution provider will cover under SLA.	List and specifications of major Hardware installed are given below (Annexure L)
2	HVAC	All precision cooling systems installed at Data Center (primary site & DR Site) will be part of scope of work. All cooling equipment specified or not specified in Data Center will be part of scope of work and Solution Provider will cover under SLA	List and Specification of major HVAC systems are given below. (Annexure L)
3	Power	All power equipment (UPS, Power Modules, GenSet, LV Panels, Electrification at Primary Site and DR Site, Electrification for network equipment will be part of scope of work under the SLA. All cooling equipment specified or not specified in Data Center will be part of scope of work and Solution Provider will cover under SLA.	List and Specification of major power equipments are given below (Annexure L)
4	Networking Equipment	Maintenance of Networking Equipment within the Primary Site and DR Site, Fiber Optic Connectivity equipment, networking equipments, patch cords, other necessary equipment in NOC, etc. will be covered under SLA. Solution provider will establish redundant fiber connectivity and maintain the existing fiber networks will be part of scope of work and will cover under SLA	List and Specification of major power equipments are given below. (Annexure L)

### Service Level Definition

Service Level	Service Description	Resolution Time
<b><u>Severity Level-I</u></b> Top Critical Business Impact	Complete loss of services and operations, or wide scale business outage or significant impact to business.	2 to 4-hours.
<b><u>Severity Level-II</u></b> Highly Serious Business Impact	Significant or degraded service. Time sensitive issues important to productivity. High – Impact problems where business is proceeding but is significantly impaired.	5 to 8-hours.

<p><b><u>Severity Level-III</u></b> Medium Minor Business Impact</p>	<p>Minor loss of service. Issues causing significant customer concern.</p>	<p>Within 24 hours</p>
<p><b><u>Severity Level-IV</u></b> Medium Minor Business Impact</p>	<p>Service in working mode; but have issues that did not have significant business impact.</p>	<p>Within 48 hours</p>

# **PACKAGE – IV – SERVICE LEVEL AGREEMENT (PASSIVE NETWORK, FIBER , WIRELESS ETC. (TURNKEY)**

## **1 Tender Scope**

ST&IT Department , (hereinafter referred to as “the Purchaser”) invites / requests Proposals (hereinafter referred to as “the Tenders”) for two year Passive Network SLA (Service Level Agreement of Primary Data Center site in Peshawar and DR Site in D.I.Khan Detail of the installed equipment within the civil secretariat premises and outside that will be in Services are :

1. **Fiber Optic**
2. **Ethernet Network**
3. **Wireless Network**
4. **Sites Name attached at Annexure Level - A**

## **2 Proposed Work**

ST&IT Department is interested in a long term “preferred Vendor” relationship with an innovative market-leading Solution with well reputed experience in provision of services for Data Center which is compatible with current integrated technologies and scalable for future extension/ expansion. It is intended that these services are required for the period of One Years. ST&IT Department, however, reserves the right to acquire components outside this relationship where the Solution Provider does not offer a suitable product or service that meets the project needs. The relationship may also be terminated in the event that the vendor or its product lines fail to hold a leading market position that is relevant to evolving needs of ST&IT Department.

## **3 Solution Scoping Parameters**

Bidder must have expertise in Providing Service Level Agreement (SLA) Services for Passive Network (Single Mode Fiber Optic and other wired and wireless medium) Maintenance. Already being shortlisted under Expression of Interest in which eligibility requirements of the SLA were mandatory, i.e. must be registered with Tax Authorities as per prevailing latest tax rules (Only those companies which are validly registered with sales tax and income tax departments and having sound financial strengths can participate); has valid Registration of General Sales Tax (GST), Khyber Pakhtunkhwa Revenue Authority (KPRA) & National Tax Number (NTN); valid License from Pakistan

Company has not been blacklisted by any of Provincial or Federal Government Department, Agency, Organization or autonomous body or Private Sector Organization anywhere in Pakistan (Submission of undertaking on legal stamp paper is mandatory), failing which will cause rejection of the bid;

Has the required relevant qualified personnel and enough strength to fulfill the requirement of assignment.

Conforms to the clause of “Responsiveness of Bid” given herein this tender document.

Goods and Services can only be supplied / sourced / routed from “origin” in “eligible” member countries.

“Eligible” is defined as any country or region that is allowed to do business in Pakistan by the law of Government of Pakistan.

**Note:** Verifiable documentary proof for all above requirements is a mandatory requirement, noncompliance will lead to disqualification.

## **4 Location of the Project.**

Solution and all Services are required to be deployed and delivered onsite in Peshawar Data Center KP Site but the deployed solutions will have to be accessible through secure channels to the relevant users of the solution which might be located anywhere.



## 5 Vendor's Capabilities, Responsibilities and Requirements:

Vendor shall be obligated to provide the services through its office at Peshawar under this proposal for Maintenance of KP official Data Centre Infrastructure at Primary & DR side (Peshawar & DIKHAN) but not limited to following equipment.

- i- Optical Fiber Cabling Maintenance, Wired and Wireless Network Deployed between Data Center and different departments of Civil Secretariat with all network equipment.
- ii- Vendor shall depute four (4) Network Engineer at KP Data Center PR and DR Site for maintenance of Wired and Wireless Sites connected to KP Data Center.
- iii- List of Optical Fiber Connected sites which will be covered under Network SLA are ;
  1. KP Civil Secretariat (All Departments and Attached Units).
  2. CM Secretariat
  3. KP Assembly.
  4. Benevolent Fund Building
  5. AG Office
  6. Peshawar Prison
  7. Traffic Police Driving License
  8. Transport Driving License
  9. Peshawar High Court
  10. Halal Food Authority
  11. IMU Education
  12. Directorate of Science & Technology
  13. Public Service Commission
  14. PKHA
  15. CCPO
  16. Counter Terrorism Department
  17. DC Office Peshawar
  18. Directorate of Excise
  19. Central Police Office
- iv- ST & IT Department has the right to increase/decrease number of hardware deliverables keeping in view the availability of the budget

## 6 Deliverables:

ST&IT Department expects the best practices to be followed by the vendors in providing such services ensuring that all the recommended deliverables are delivered professionally and timely in every phase of the project. Following is the list of deliverables that would be required before and during the implementation and after the completion of these services:

S.No	Component	Scope of Work under SLA	Remarks
1	Networking	Maintenance of Networks within the Primary Site and DR Site, Fiber Optic Connectivity among the connected Departments, redundant Fiber Optic network, Wireless and Wired(Ethernet)Network, patch cords, other necessary equipment, networking in above mentioned Sites and DR site, etc. will be covered under SLA.	

## Service Level Definitions

Service Level	Service Description	Resolution Time
<b><u>Severity Level-I</u></b> Top Critical Business Impact	Complete loss of services and operations, or wide scale business outage or significant impact to business.	2 to 4-hours.
<b><u>Severity Level-II</u></b> Highly Serious Business Impact	Significant or degraded service. Time sensitive issues important to productivity. High – Impact problems where business is proceeding but is significantly impaired.	5 to 8-hours.
<b><u>Severity Level-III</u></b> Medium Minor Business Impact	Minor loss of service. Issues causing significant customer concern.	Within 24 hours
<b><u>Severity Level-IV</u></b> Medium Minor Business Impact	Service in working mode; but have issues that did not have significant business impact.	Within 48 hours

## 7. Tender Eligibility/Qualification Criteria

- 7.1 Eligible Bidder/Tenderer is a Bidder/Tenderer / Supplier or JV partner who:
- 7.1.1 has a registered/incorporated company/firm in Pakistan with relevant business experience of last ten(10) years;
  - 7.1.2 Must be in the business of relevant packages scope of work.
  - 7.1.3 Must have office local support office at Peshawar.
  - 7.1.4 Must be registered with Tax Authorities as per prevailing latest tax rules (Only those companies which are validly registered with sales tax and income tax departments and having sound financial strengths can participate); has valid Registration of General Sales Tax (GST), Khyber Pakhtunkhwa Revenue Authority (KPRA) & National Tax Number (NTN);
  - 7.1.5 Has submitted bid for complete solutions against each packages as a whole and bid security for complete solution against each packages. Non-compliance of the same shall cause rejection of the bid;
  - 7.1.6 has not been blacklisted by any of Provincial or Federal Government Department, Agency, Organization or autonomous body or Private Sector Organization anywhere in Pakistan (Submission of undertaking on legal stamp paper is mandatory), failing which will cause rejection of the bid;
  - 7.1.7 Has the required relevant qualified personnel and enough strength to fulfill the requirement of assignment.
  - 7.1.8 Conforms to the clause of “Responsiveness of Bid” given herein this tender document.
  - 7.1.9 Goods and Services can only be supplied / sourced / routed from “origin” in “eligible” member countries.
    - a. “Eligible” is defined as any country or region that is allowed to do business in Pakistan by the law of Government of Pakistan.
    - b. "Origin" shall be considered to be the place where the Goods are produced or from which the Services are provided. Goods are produced when, through manufacturing,

processing or substantial and major assembling of components, a commercially recognized product results that is substantially different in basic Characteristics or in purpose or utility from its components.

**Note:** Verifiable documentary proof for all above requirements is a mandatory requirement, noncompliance will lead to disqualification.

## **8. Tender Cost**

The Tenderer shall bear all costs / expenses associated with the preparation and submission of the Tender(s) and the Purchaser shall in no case be responsible / liable for those costs / expenses.

## **9. Joint Venture / Consortium**

The tenderer applying under Joint venture / consortium should provide consortium deed signed for this project, in which Primary and secondary roles should be properly addressed.

## **10. Examination of the Tender Document**

The Tenderer is expected to examine the Tender Document, including all instructions and terms and conditions.

## **11. Clarification of the Tender Document**

The Tenderer may require further information or clarification of the Tender Document, within five (05) calendar days of issuance of tender in writing. The clarification and its replies will be shared with all prospective bidders. However, Tenderer should come up with question during Pre-Bid meeting scheduled after receiving of bids.

Bidders should note that during the period from the receipt of the bid and until further notice from the Primary Contact given herein this document, all queries should be communicated via the Primary Contact and in writing (e.g. e-mail & letter) only. In the case of an urgent situation where the Primary Contact cannot be contacted, the bidder may alternatively direct their enquiries through the Secondary Contact.

## **12. Amendment of the Tender Document**

12.1 The Purchaser may, at any time prior to the deadline for submission of the Tender, at its own initiative or in response to a clarification requested by the Bidder(s), amend the Tender Document, on any account, for any reason. All amendment(s) shall be part of the Tender Document and binding on the Bidder(s).

12.2 The Purchaser shall notify the amendment(s) in writing to the prospective Tenderers as per Khyber Pakhtunkhwa Procurement Rules, 2014.

## **13. Preparation / Submission of Tender**

13.1 The tenderer should apply for all the location mention in the documents.

13.2 The Tenderer will submit their respective bids in a manner explained in this tender document.

13.3 The Tender and all documents relating to the Tender, exchanged between the Tenderer and the Purchaser, shall be in English. Any printed literature furnished by the Tenderer in another language shall be accompanied by an English translation which shall govern for purposes of interpretation of the Tender.

13.4 The Tender shall be filed in / accompanied by the prescribed Forms, Annexes, Schedules, Charts, Drawings, Documents, Brochures, Literature, etc. which shall be typed, completely filled in, numbered, stamped and signed by the Tenderer or his Authorized Representative. In case of copies, signed and stamped photocopies may be submitted. If volume of the bid contains various set(s) of documents the same must be properly numbered and tagged in binding shape.

13.5 The Tender shall be in two parts i.e. the technical proposal and the financial proposal. Each proposal shall be in two sets i.e. the original and the copy. In the event of any

- discrepancy between the original and the duplicate, the original shall govern.
- 13.6 Technical Proposal shall comprise the following, **without quoting the price**:
- 13.6.1 Technical Proposal Form (Price Schedule **-B**)
  - 13.6.2 Undertaking (All terms & conditions and qualifications listed anywhere in this tender document have been satisfactorily vetted) and Affidavit (Integrity Pact) (**Annexure-G&H**).
  - 13.6.3 Covering letter duly signed and stamped by authorized representative (**Annexure-E**).
  - 13.6.4 Certificate of Company/Firm Registration/Incorporation under the laws of Pakistan
  - 13.6.5 Certificate of registration from the Khyber Pakhtunkhwa Revenue Authority
  - 13.6.6 Evidence of eligibility of the Tenderer and the Goods / Services.
  - 13.6.7 Evidence of conformity of the Goods / the Services to the Tender Document
  - 13.6.8 Technical Brochures / Literature
  - 13.6.9 List of firm's major international and national clientele
  - 13.6.10 Submission of undertaking on legal valid and attested stamp paper that the firm is not blacklisted by any of Provincial or Federal Government Department, Agency, Organization or autonomous body or Private Sector Organization anywhere in Pakistan.
  - 13.6.11 The Contractor's financial capacity to mobilize and sustain the Supply of Hardware/Equipment and Services is imperative. In the Proposal, the Bidder is required to provide information on its financial status. This requirement can be met by submission of one of the following: 1) audited financial statements for the last three (03) years, supported by audit letters, 2) certified financial statements for the last three (03) years, supported by tax returns duly signed and stamped by authorized representative. The statement must be signed by the authorized representative of the Bidder.
  - 13.6.11 Income Tax & Sales Tax Returns for the last three (3) tax years.
  - 13.6.12 Financial Capacity as per (**Annexure-K**)
  - 13.6.13 Valid Registration Certificate for Income Tax, KP Revenue Authority (KPRA) & Sales Tax
  - 13.6.14 Power of Attorney, if an authorized representative is appointed (**Annexure-F**)
- 13.7 The Financial Proposal shall comprise the following:
- 13.7.1 Financial Proposal Form (**Annexure-C**)
  - 13.7.2 Price Schedule (**Annexure-D**)
  - 13.7.3 Bid Security, **as per provisions of the clause Bid Security of this document (Annexure- I)**
- 13.8 The Tenderer shall seal the Original Technical Proposal in an envelope duly marked as under:

Original Technical Tender for

Tender Name: [Name of Tender]

[Name of the Purchaser]

[Address of the Purchaser]

[Name of the Tenderer]

[Address of the Tenderer]

[Phone No. of the Tenderer]

- 13.9 The Tenderer shall seal the Duplicate Technical Tender in an envelope duly marked as under:

Duplicate Technical Proposal for  
Tender Name: [Name of Tender]

[Name of the Purchaser]

[Address of the Purchaser]

[Name of the Tenderer]

[Address of the Tenderer]

[Phone No. of the Tenderer]

- 13.10 The Tenderer shall follow the same process for the Financial Tender.

- 13.11 The Tenderer shall again seal the sealed envelopes of Original Technical Proposal and the Original Financial Proposal in an outer envelope, duly marking the envelope as under:

Original Tender for  
Tender Name: [Name of Tender]

Strictly Confidential

[Name of the Purchaser]

[Address of the Purchaser]

[Name of the Tenderer]

[Address of the Tenderer]

[Phone No. of the Tenderer]

- 13.12 The Tenderer shall again seal the sealed envelopes of Duplicate Technical Proposal and the Duplicate Financial Proposal in an outer envelope, duly marking the envelope as under:

Duplicate Tender for  
Tender Name: [Name of Tender]

Strictly Confidential

[Name of the Purchaser]

[Address of the Purchaser]

[Name of the Tenderer]

[Address of the Tenderer]

[Phone No. of the Tenderer]

- 13.14 The Tenderer shall enclose soft copies of the Technical Proposal and the Financial Proposals, including all Forms, Annexes, Schedules, Charts, Drawings, Documents, Brochures, Literature, etc., in the form of MS Word Documents, MS Excel Worksheets and Scanned images, with the hard copies.
- 13.15 The Tender shall be dropped at the Office of **Additional Secretary ST&IT Department** at Purchaser's office, not later than 11:30 hours on last date of submission of bids. No late bid shall be accepted and will be consider as non-responsive, the same will be return to the representative of supplier.
- 13.16 This is made obligatory to affix authorized signatures with official seal on all original and duplicate (copies) documents, annexures, copies, certificates, brochures, literature, drawings, letters, forms and all relevant documents as part of the bids submitted by the tenderer.

#### **14. Tender Price**

- 14.1 The quoted price shall be:
- 14.1.1 in Pak Rupees;
- 14.1.2 inclusive of all taxes, duties, levies, insurance, freight, etc.;
- 14.1.3 best / final / fixed and valid until completion of all obligations under the Contract i.e. not subject to variation / escalation;
- 14.1.4 Including all charges up to the delivery point at specified Peshawar University and Government Colleges (if required).
- 14.2 If not specifically mentioned in the Tender(s), it shall be presumed that the quoted price is as per the above requirements.
- 14.3 Where no prices are entered against any item(s), the price of that item shall be deemed be free of charge, and no separate payment shall be made for that item(s).
- 14.4 In case of locally produced Equipment/Service, the price shall include all customs duties and sales and other taxes already paid or payable on the components and raw materials used in the manufacture or assembly of the item. In case of Contract of imported Equipment/Services offered Ex-Warehouse/Off-the-Shelf from within the Purchaser's country, import duties and sales and other taxes already paid shall be shown separately (if required by the Purchaser).

#### **15. Bid Security (Earnest Money)**

- 15.1 The Tenderer shall furnish the Bid Security (Earnest Money) as under:
- 15.1.1 for a sum equivalent to 2% of the Total Tender Price;
- 15.1.2 denominated in Pak Rupees;
- 15.1.3 As part of financial bid envelope, failing which will cause rejection of bid.
- 15.1.4 in the form of Demand Draft / Pay Order / Call Deposit Receipt / Bank Guarantee (issued by a scheduled bank operating in Pakistan, as per the format provided in the Tender Document) in the name of Additional Secretary ST &

IT, ST & IT Department;

- 15.1.5 have a minimum validity period of ninety (90) days from the last date for submission of the Tender or until furnishing of the Performance Security, whichever is later.
- 15.2 The Bid Security shall be forfeited by the Purchaser, on the occurrence of any / all of the following conditions:
- 15.2.1 If the Tenderer withdraws the Tender during the period of the Tender validity specified by the Tenderer on the Tender Form; or
- 15.2.2 If the Tenderer does not accept the corrections of his Total Tender Price; or
- 15.3 If the Tenderer, having been notified of the acceptance of the Tender by the Purchaser during the period of the Tender validity, fails or refuses to furnish the Performance Security, in accordance with the Tender Document.
- 15.4 The Bid security shall be returned to the technically unsuccessful Tenderer with unopened/sealed financial bid while the unsuccessful bidders of financial bid opening procedure will be returned the Bid Security only. The Bid Security shall be returned to the successful Tenderer upon furnishing of the Performance Security.

## **16. Tender Validity**

The Tender shall have a minimum validity period of ninety (90) days from the last date for submission of the Tender. The Purchaser may solicit the Tenderer's consent to an extension of the validity period of the Tender. The request and the response thereto shall be made in writing. If the Tenderer agrees to extension of validity period of the Tender, the validity period of the Bid Security shall also be suitably extended. The Tenderer may refuse extension of validity period of the Tender, without forfeiting the Bid security.

## **17. Modification / Withdrawal of the Tender**

- 17.1 The Tenderer may, by written notice served on the Purchaser, modify or withdraw the Tender after submission of the Tender, prior to the deadline for submission of the Tender.
- 17.2 The Tender, withdrawn after the deadline for submission of the Tender and prior to the expiration of the period of the Tender validity, shall result in forfeiture of the Bid Security.

## **18. Opening of the Tender**

- 18.1 Tenders (Technical Bids) shall be opened at 11:30 hours on the last date of submission of bids i.e. **30 September, 2020**, in the presence of the Tenderer(s) for which they shall ensure their presence without further invitation, as per provision KPPRA Rules, 2014. In case the last date of bid submission falls in / within the official holidays / weekends of the Purchaser, the last date for submission of the bids shall be the next working day.
- 18.2 The Tenderer's name, modifications, withdrawal, security, attendance of the Tenderer and such other details as the Purchaser may, at its exclusive discretion, consider appropriate, shall be announced and recorded.
- 18.3 No tenderer or its representative will be allowed to keep any digital device (camera, audio recorder, cell phone etc.) during tender opening meeting at given time and location.

## **19. Clarification of the Tender**

The Purchaser shall have the right, at his exclusive discretion, to require, in writing, further information or clarification of the Tender, from any or all the Tenderer(s). No change in the price or substance of the Tender shall be sought, offered or permitted

except as required to confirm the corrections of arithmetical errors discovered in the Tender. Acceptance of any such correction is sole discretion of the purchaser

## **20. Determination of Responsiveness of the Bid (Tender)**

- 20.1.1 The Purchaser shall determine the substantial responsiveness of the Tender to the Tender Document, prior to the Tender evaluation, on the basis of the contents of the Tender itself without recourse to extrinsic evidence. A substantially responsive Tender is one which: meets the eligibility criteria given herein this tender document/ the Goods / the Services;
  - 20.1.2 meets the Technical Specifications for the Goods / the Services against each Location;
  - 20.1.3 meets the delivery period / point for the Goods / the Services against each Location;
  - 20.1.4 in compliance with the rate and limit of liquidated damages;
  - 20.1.5 offers fixed price quotations for the Goods / the Services against the requirements;
  - 20.1.6 is accompanied by the required Bid Security as part of financial bid envelope (sealed);
  - 20.1.7 In compliance with the Preparation/Submission of Tender in a manner prescribed in this tender document clause-13;
  - 20.1.8 Conforms to all terms and conditions of the Tender Document, without material deviation or reservation.
- 20.2 A material deviation or reservation is one which affects the scope, quality or performance of the Services / Goods or limits the Purchaser's rights or the Tenderer's obligations under the Contract.
- 20.3 The Tender determined as not substantially responsive shall not subsequently be made responsive by the Tenderer by correction or withdrawal of the material deviation or reservation.

## **21. Correction of errors / Amendment of Tender**

- 21.1 The Tender shall be checked for any arithmetic errors which shall be rectified, as follows:
- 21.1.1 If there is a discrepancy between the amount in figures and the amount in words for the Total Tender Price entered in the Tender Form, the amount which tallies with the Total Tender Price entered in the Price Schedule, shall govern.
  - 21.1.2 if there is a discrepancy between the unit rate and the total price entered in the price Schedule, resulting from incorrect multiplication of the unit rate by the quantity, the unit rate as quoted shall govern and the total price shall be corrected, unless there is an obvious and gross misplacement of the decimal point in the unit rate, in which case the total price as quoted shall govern and the unit rate shall be corrected.
  - 21.1.3 If there is a discrepancy in the actual sum of the itemized total prices and the total tender price quoted in the Price Schedule, the actual sum of the itemized total prices shall govern.
- 21.2 The Tender price as determined after arithmetic corrections shall be termed as the Corrected Total Tender Price which shall be binding upon the Tenderer.
- 21.3 Adjustment shall be based on corrected Tender Prices. The price determined after making such adjustments shall be termed as Evaluated Total Tender Price.
- 21.4 No credit shall be given for offering delivery period earlier than the specified period.



## 22. TECHNICAL EVALUATION CRITERIA

### Proposal Evaluation

From the time the Proposals are opened to the time the Contract is awarded, the Consultants should not contact the PE on any matter related to its Technical and/or Financial Proposal. Any effort by Consultants to influence the PE in the examination, evaluation, ranking of Proposals, and recommendation for award of Contract may result in the rejection of the Consultants' Proposal. Evaluators of Technical Proposals shall have no access to the Financial Proposals until the technical evaluation is concluded.

Evaluation of Technical Proposals:

The evaluation committee shall evaluate the Technical Proposals on the basis of their Responsiveness to the Terms of Reference, applying the evaluation criteria, sub-criteria, and point system specified in the Data Sheet. Each responsive Proposal will be given a technical score (St). A Proposal shall be rejected at this stage if it fails to achieve the minimum technical score indicated in the Data Sheet.

After the technical evaluation is completed, the PE shall notify in writing Consultants that have secured the Minimum qualifying marks, the date, time and location, allowing a reasonable time, for opening the Financial Proposals. Consultants' attendance at the opening of Financial Proposals is optional. Financial proposals of those consultants who failed to secure minimum qualifying marks shall be returned unopened.

Evaluation of Financial Proposals:

In case of Quality and Cost Based Selection QCBS Method the lowest evaluated Financial Proposal (Fm) will be given the maximum financial score (Sf) of 100 points. The financial scores (Sf) of the other Financial Proposals will be computed as indicated in the Data Sheet. Proposals will be ranked according to their combined technical (St) and financial (Sf) scores using the weights (T = the weight given to the Technical Proposal; P = the weight given to the Financial Proposal; T + P = 1) indicated in the Data Sheet:  $S = St \times T\% + Sf \times P\%$ . The firm achieving the highest combined technical and financial score will be invited for negotiations.

**PASS MARKS:** A technically eligible bidder, based on conditions listed in this document, not meeting the 70% pass marks limit will be rejected in Technical Evaluation, and its sealed / unopened Financial Proposal shall be returned back. All bidders scoring greater than or equal to 70% of the marks will be accepted in technical proposal, and their financial bids will be opened.

**PROVISION:** Provided that if NONE or ONLY ONE (single) bidder exceeds the 70% pass mark, then the Purchaser SHALL decrease the Pass Mark limit to 60%. In other words, if TWO or more bidders exceed 70%, then the Pass Mark will NOT be decreased to 60%.

If Pass Marks are decreased to 60%, then ALL bidders with scores greater than or equal to 60% shall be considered EQUALLY as approved in the Technical Evaluation, and their Financial Bids shall be opened.

The Bidders who have duly complied with the Eligibility/Qualification and Evaluation Criteria will be eligible for further processing.

The Bids which do not conform to the Technical Specifications or Bid conditions or the Bids from the Bidders without adequate capabilities for supply and maintenance / warranty /support services will be rejected.

Detailed technical evaluation will be done for firms who qualify the mandatory eligibility criteria. Ratings for the Proposal evaluation will be as follows:

Sr. No.	Description	Evaluation Weight-age
1.	Technical Proposal	60%
2.	Financial Proposal	40%

Financial bids of firms who score at least 70% on the technical evaluation (as a whole) will be opened before the representatives who wish to attend the tender opening. 30 % weight-age will be given to financial proposals of responding organizations. The formula for financial scoring is that the lowest bidder gets 30 points and the other bidders score 30 multiplied by the ratio of the lowest bid divided by the quoted price.

**Example:**

Value quoted by lowest bidder = A

Value quoted by second lowest bidder = B

Value quoted by third lowest bidder = C

Financial scoring of the lowest bidder will be = 30

Financial scoring of the second lowest bidder will be =  $(A/B) \times 30$

Financial scoring of the third lowest bidder will be =  $(A/C) \times 30$

Technical scoring out of 100 = A

Carried Forward & Prorated Technical scoring =  $A \times 0.7$

Points obtained in the detailed technical evaluation will be carried forward & prorated. Tender will be awarded to the Responding Organization with maximum accumulative points (Technical Score + Financial Score). **The decision of this Committee will be binding on all concerned and will in no case be challengeable in any forum.**

The technical proposals shall be evaluated by the technical evaluation committee in the light of following evaluation criteria

<b>Package I &amp; II (Technical Evaluation criteria)</b>		
<b>Description</b>	<b>Points</b>	<b>Documents Required</b>
<b>Legal( Mandatory)</b>		
Certificate of Company/Firm Registration/Incorporation under the laws of Pakistan with minimum 10 years of Relevant Experience.	Mandatory	Registration with relevant authorities, Experience Certificates, Completion Certificates, etc.
Valid Income Tax Registration	Mandatory	Certificate or Document
Valid General Sales Tax Registration (Status = Active with FBR and KPRA)	Mandatory	Certificate or Document
Valid Khyber Pakhtunkhwa Revenue Authority (KPRA) Registration	Mandatory	Certificate or Document
Submission of undertaking on legal valid and attested stamp paper that the firm is not blacklisted and not entered into litigation with any of Provincial or Federal Government Department, taxation authorities, Agency, Organization or autonomous body or Private Sector Organization, Anywhere in Pakistan	Mandatory	Affidavit on Stamp Paper
Compliance to the technical specifications of the items to be procured Mentioned vide Annex-A of this document	Mandatory	Compliance Sheet
In full compliance of the Execution Schedule and Delivery Period mentioned in Tender document (Undertaking).	Mandatory	Project execution and completion plan
Should be an authorized Tier – 1 Partner for DELL, CISCO and FORTENET equipments.	Mandatory	Project Execution
Annual Turn Over of at least 1000 Million (Rs)	Mandatory	3 years Audit Report
Annual Tax Returns of FBR for the last 3 years	Mandatory	FBR Tax Returns
Should have authorized certified human resource for Data Center , vm ware, fortinet, Dell EMC, Cisco,	Mandatory	
<b>Point Based Criteria</b>		
<b>Pass Marks: 70%(70/100)</b>		
Registered Office in Peshawar Khyber Pakhtunkhwa	5	Details of Office, attached picture, agreement deed, tenant form, etc.
Experience in Similar nature Projects of worth of 100 Million or above (5 Points for each project up to Max Points 20)	20	Purchase orders, Completion Certificate, Contract Agreements, Proof of Cost for each project, Point of Contact
Authorized Tier – 1 Partner for DELL, CISCO and FORTENET for atleast for 2 years (2.5 marks for each year up to max points 5)	5	Certificate from Manufacturer
Staff Assigned to Project (Project Managers, engineers, technical resources, designer, developers, etc.) (1 mark for each employee up to max 15)	15	Engineering Staff Details
Total number of successful completion of Turn Key Project (02 marks for each project upto Max, 20)	20	Details of Turn Key Projects
Detail Project Execution Plan (Timelines), Responsibility matrix, etc. Proposed Solution (Installation, Integration, commissioning, operation procedures, licensing, etc. Scalability and expansion with existing system, Hardware, Network components) Implementation Methodology of solution. Warranty/support period/Delivery time. Design, implementation, license management and related information with case studies, clientage, etc.	15	Relevant project execution documents i.e. Charts, Drawing, Matrix, etc. and all necessary document for solution work under relevant package.
Accumulative Annual Turnover 1000M-2000M (10 Marks) 2001M-3000M (20 Marks)	20	Audit Reports
<b>Total</b>	<b>100</b>	

<b>Package III</b>		
<b>Description</b>	<b>Points</b>	
<b>Legal( Mandatory)</b>		
Certificate of Company/Firm Registration/Incorporation under the laws of Pakistan with minimum 10 years of Relevant Experience.	Mandatory	Registration with relevant authorities, Experience Certificates, Completion Certificates, etc.
Valid Income Tax Registration	Mandatory	Certificate or Document
Valid General Sales Tax Registration (Status = Active with FBR and KPRA)	Mandatory	Certificate or Document
Valid Khyber Pakhtunkhwa Revenue Authority (KPRA) Registration	Mandatory	Certificate or Document
Submission of undertaking on legal valid and attested stamp paper that the firm is not blacklisted and not entered into litigation with any of Provincial or Federal Government Department, taxation authorities, Agency, Organization or autonomous body or Private Sector Organization, Anywhere in Pakistan		Affidavit on Stamp Paper
In full compliance of the Execution Schedule mentioned in Tender document (Undertaking).	Mandatory	Project execution and completion plan
Should be an authorized Tier – 1 Partner for DELL, CISCO and FORTENET equipment.	Mandatory	Project Execution
No of technical Resources to be deputed at KP DC office (Atleast 1 Network expert, 1 System expert, 1 Hardware expert, 1 electrical engineer and 1 Cyber Security expert)	Mandatory	Project Execution
Annual Turn Over of at least 1000 Million (Rs)	Mandatory	3 years Audit Report
Annual Tax Returns of FBR for the last 3 years	Mandatory	FBR Tax Returns
Should have authorized certified human resource for Data Center , vm ware, fortinet, Dell EMC, Cisco,	Mandatory	
<b>Point Based Criteria</b>		
<b>Pass Marks: 70%(70/100)</b>		
Service provider Office In KP	5	
Authorized service / maintenance center (2 mark for each center / office)	10	
Successful Implementation Certificate of at least FIVE public / private organization of similar nature and same value (5 marks for each project Max points 15)	25	
Staff assigned for SLA <ul style="list-style-type: none"> <li>• Hardware and Allied Equipment – 5 Marks (1 mark for each resource)</li> <li>• HVAC – 5 Marks (1 mark for each resource)</li> <li>• GENSET – 5 Marks (1 mark for each resource)</li> <li>• Power / UPS - 5 Marks (1 mark for each resource)</li> <li>• Network equipment – 5 Marks (1 mark for each resource)</li> <li>• Miscellaneous (Fire alarm, smoke detection, Infrastructure, raised floor etc) – 5 Marks (1 mark for each resource)</li> </ul>	30	
Annual Turnover 1001M-1500M (10 Marks) 1501M-2000M (20 Marks)	20	
Income tax paid in last three years Up 20 Million - 2 Marks 21 to 40 Million - 4 Marks 41 to 60 Million - 6 Marks 61 to 80 Million - 8 Marks 81 Million or above - 10 Marks	10	
<b>Total</b>	<b>100</b>	

<b>Package IV</b>		
<b>Description</b>	<b>Points</b>	
<b>Legal( Mandatory)</b>		
Local Presence – Peshawar	Mandatory	
Certificate of Company/Firm Registration/Incorporation under the laws of Pakistan with minimum 10 years of Relevant Experience.	Mandatory	Registration with relevant authorities, Experience Certificates, Completion Certificates, etc.
Valid Income Tax Registration	Mandatory	Certificate or Document
Valid General Sales Tax Registration (Status = Active with FBR and KPRA)	Mandatory	Certificate or Document
Valid Khyber Pakhtunkhwa Revenue Authority (KPRA) Registration	Mandatory	Certificate or Document
Submission of undertaking on legal valid and attested stamp paper that the firm is not blacklisted and not entered into litigation with any of Provincial or Federal Government Department, taxation authorities, Agency, Organization or autonomous body or Private Sector Organization, Anywhere in Pakistan		Affidavit on Stamp Paper
No of technical Resources to be deputed at KP DC office (Atleast 3 Network expert)	Mandatory	Project Execution
Annual Turn Over of at least 10 Million (Rs)	Mandatory	3 years Audit Report
Annual Tax Returns of FBR for the last 3 years	Mandatory	FBR Tax Returns
<b>Point Based Criteria</b>		
<b>Pass Marks: 70%(70/100)</b>		
Service provider Office In Peshawar	10	
Successful Implementation Certificate of at least FIVE public / private organization of similar nature (Fiber network project) (5 marks for each project Max points 30)	30	
Staff assigned for project <ul style="list-style-type: none"> <li>• Project Manager – 5 Marks (1 mark for each resource)</li> <li>• Network Administrator – 5 Marks (1 mark for each resource)</li> <li>• Network Engineer – 5 Marks (1 mark for each resource)</li> <li>• Hardware Engineer - 5 Marks (1 mark for each resource)</li> </ul>	20	
Annual Turnover 10 M – 15 M (10 Marks) 15 M – 20 M (20 Marks)	20	
Income tax paid in last three years Up to 1 Million - 2 Marks 1.2 to1. 4 Million - 4 Marks 1.4 to 1.6 Million - 6 Marks 1.6 to 1.8 Million - 8 Marks 2 Million or above - 20 Marks	20	
<b>Total</b>	<b>100</b>	

**Note:**

- a. Verifiable documentary proof for all above mentioned requirements including (Completion Certificates, Registration certificates, Equipments certification and authorization, and criteria points thereafter are mandatory and marks will be awarded accordingly on the basis of verifiable proofs. All the documentary proofs submitted by the vendors can be verified by the procurement agencies whenever required

**23. FINANCIAL PROPOSAL EVALUATION**

- 23.1 Technically qualified/successful bidder(s)/Tenderer(s) shall be called for opening of the Financial Proposal(s). The Financial Proposals will be opened in the presence of the Bidders who wish to attend at the time and venue indicated by the Purchaser accordingly. The technically Eligible/Successful Bidder(s)/Tenderer(s) or their authorized representatives shall be allowed to take part in the Financial Proposal(s) opening.
- 23.2 Financial Proposal evaluation will be conducted under Khyber Pakhtunkhwa Procurement Rules, 2014. The Price evaluation will include all duties, taxes and expenses etc. In case of any exemption of duties and taxes made by the Government in favor of the Purchaser, the contractor shall be bound to adjust the same in the Financial Proposal.
  - 23.2.1 In cases of discrepancy between the cost/price quoted in Words and in Figures, the lower of the two shall be considered.
  - 23.2.2 In evaluation of the price of articles/goods/services local or imported which are subject to excise duty, custom duty, sales tax, income tax or any other tax or duty levied by the Government, the price shall be determined and considered inclusive of such duties and taxes.
- 23.3 The Purchaser will not be responsible for any erroneous calculation of tax rates or any subsequent changes in rates or structure of applicable taxes. All differences arising out as above shall be fully borne by the Successful Bidder.

**24. Rejection / Acceptance of the Bid**

- 24.1 The Purchaser shall have the right, at his exclusive discretion, to increase / decrease the quantity of any or all item(s) without any change in unit prices or other terms and conditions at the time of order placement. The Purchaser may reject all bids or proposals at any time prior to the acceptance of a bid or proposal. The Purchaser shall upon request, communicate to any bidder, the grounds for its rejection of all bids or proposals, but shall not be required to justify those grounds. The Purchaser shall incur no liability, solely under Khyber Pakhtunkhwa Procurement Rules, 2014 towards the bidders. However, bidders shall be promptly informed about the rejection of the bids, if any (As per Khyber Pakhtunkhwa Procurement Rules, 2014).
- 24.2 The Tender shall be rejected if it is:
  - 24.2.1 substantially non-responsive in a manner prescribed in this tender document clause-20; or
  - 24.2.2 submitted in other than prescribed forms, annexes, schedules, charts, drawings, documents / by other than specified mode; or
  - 24.2.3 incomplete, partial, conditional, alternative, late; or
  - 24.2.4 bid not submitted against each Location and relevant bid security is not submitted;
  - 24.2.5 subjected to interlineations / cuttings / corrections / erasures / overwriting; or
  - 24.2.6 the Tenderer refuses to accept the corrected Total Tender Price; or
  - 24.2.7 the Tenderer has conflict of interest with the Purchaser; or
  - 24.2.8 the Tenderer tries to influence the Tender evaluation / Contract award; or
  - 24.2.9 the Tenderer engages in corrupt or fraudulent practices in competing for the

- Contract award;
- 24.2.10 the Tenderer fails to meet all the requirements of Tender Eligibility / Qualification Criteria (Clause-7);
  - 24.2.11 the Tenderer fails to meet the evaluation criteria requirements (clause-22);
  - 24.2.12 the tenderer has been blacklisted by any public or private sector organization;
  - 24.2.14 the tenderer has been served any legal notices or displeasure letters by any public sector organization on serious failures to provide satisfactory services;
  - 24.2.15 the tenderer has mentioned any financial implication(s) in the financial proposal that is in contradiction to this document and Government rules and regulations.
  - 24.2.16 there is any discrepancy between bidding documents and bidder's proposal i.e. any non-conformity or inconsistency or informality or irregularity in the submitted bid.
  - 24.2.17 the Tenderer submits any financial conditions as part of its bid which are not in conformity with tender document.
  - 24.2.18 Non-submission of verifiable proofs against the mandatory as well as general documentary, qualification and eligibility related requirements.

## **25. Award Criteria**

**25.1.** At first step, eligible bidder(s)/tenderer(s) as per clause-7 (Tender Eligibility) of this tender document fulfilling the qualification and technical evaluation criteria against each package will stand technically qualified and will given 60% weightage against 100 marks mentioned in the technical evaluation the criteria.

At second step, technically qualified and successful bidder(s)/tenderer(s) will be evaluated in the light of all Pre-Conditions based on their Financial Proposal and will be given weightage against 30% as per clause (22) of the RFP, necessary requisites and shall be selected on higher score rate in accumulative of Technical & Financial scoring as per rules and fulfilling all codal formalities against the scope of work,

## **26. Acceptance Letter**

As per Khyber Pakhtunkhwa Procurement Rules 2014, the Purchaser shall issue the Acceptance Letter to the successful Tenderer, at least after 10 days of announcement of bid evaluation reports and prior to the expiry of the original validity period or extended validity period of the Tender, which shall constitute a contract, until execution of the formal Contract against each Package.

## **27. Performance Security**

27.1 The successful Tenderer/The Contractor shall furnish Performance Security as under:

27.1.1 within twenty eight (28) days of the receipt of the Acceptance Letter from the Purchaser;

27.1.2 Location wise performance security would be submitted by the Bidder;

27.1.3 in the form of a Bank Guarantee, issued by a scheduled bank operating in Pakistan, as per the format provided in the Tender Document;

27.1.4 for a sum equivalent to 10% of the contract value;

27.1.5 denominated in Pak Rupees;

27.1.6 have a minimum validity period until the date of expiry of warranty period, support period or termination of services, or fulfillment of all obligations under the contract, whichever is later. No other shape or form of performance security shall be acceptable with any validity less than the prescribed time period.

27.2 The Performance Security shall be payable to the Purchaser, on occurrence of any / all of the following conditions:

27.2.1 If the Contractor commits a default under the Contract;

27.2.2 If the Contractor fails to fulfill the obligations under the Contract;

27.2.3 If the Contractor violates any of the terms and conditions of the Contract.

27.3 The Contractor shall cause the validity period of the performance security to be extended for

such period(s) as the contract performance may be extended. The Performance Security shall be returned to the Tenderer within thirty working days after the expiry of its validity on written request from the Contractor.

- 27.4 In case the Contractor fails to furnish Performance security in the shape of bank guarantee within the stipulated period given under Letter of Acceptance and subsequent formal contract, or till end of the currency of the said contract, the amount of bank guarantee, as required, shall be deducted from the amount payable to the Contractor.

**28. Redressal of grievances by the procuring agency**

- 28.1 The Purchaser has constituted a committee comprising of odd number of persons, with proper powers and authorizations, to address the complaints of bidders that may occur prior to the entry into force of the procurement contract. The complaint should be addressed to Additional Secretary ST & IT, ST & IT Department, 2<sup>nd</sup> Floor, SDU Building, Khyber Road, Peshawar in writing supported with relevant documents.
- 28.2 Any bidder feeling aggrieved by any act of the Purchaser after the submission of his bid may lodge a written complaint concerning his grievances not later than ten days after the announcement of the bid evaluation report.
- 28.3 The committee shall investigate and decide upon the complaint within fifteen days of the receipt of the complaint.
- 28.4 Mere fact of lodging of a complaint shall not warrant suspension of the procurement process.



## **SITES FOR PASSIVE NETWORK, FIBER, WIRELESS ETC.**

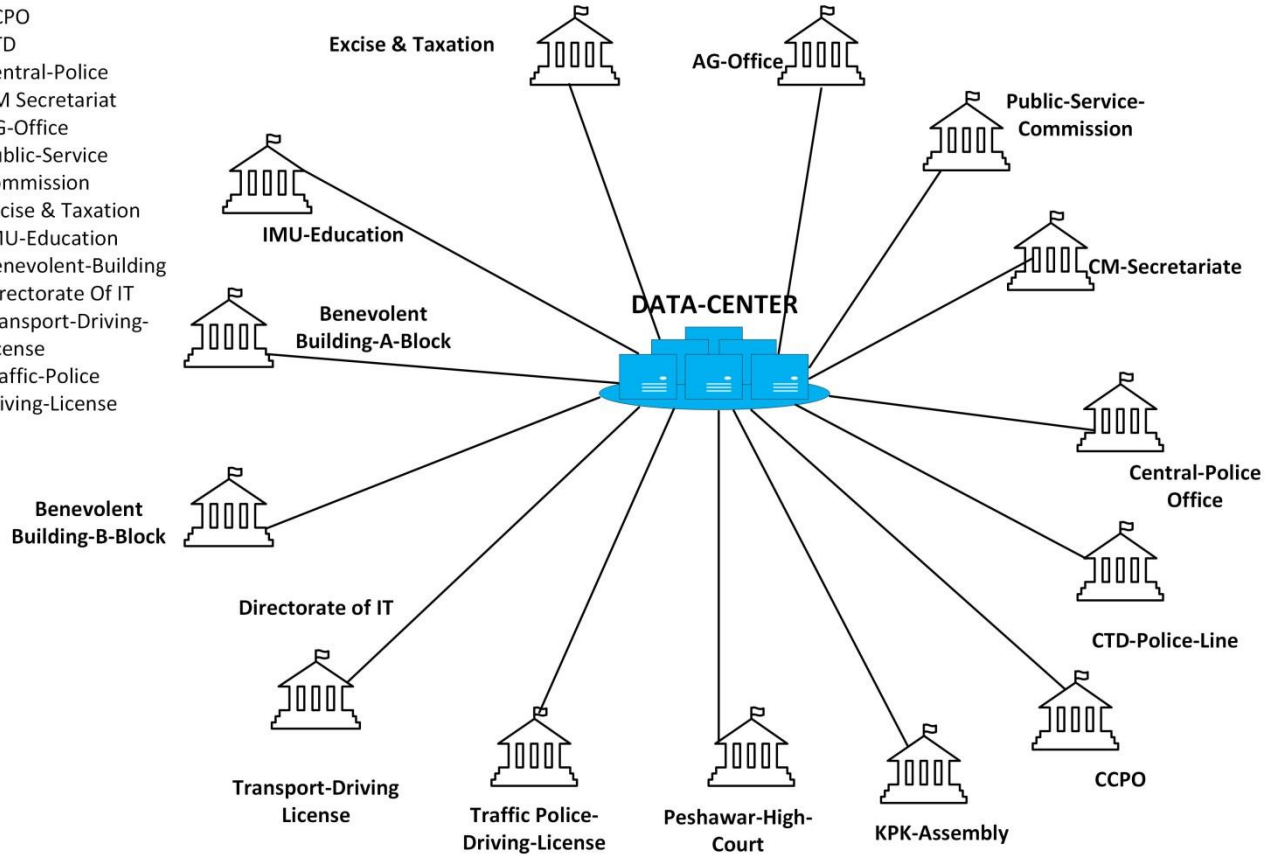
### **ANNEXURE-A**

1. KP Civil Secretariat (All Departments and Attached Units).
2. CM Secretariat
3. KP Assembly.
4. Benevolent Fund Building
5. AG Office
6. Peshawar Prison
7. Traffic Police Driving License
8. Transport Driving License
9. Peshawar High Court
10. Halal Food Authority
11. IMU Education
12. Directorate of Science & Technology
13. Public Service Commission
14. PKHA
15. CCPO
16. Counter Terrorism Department
17. DC Office Peshawar
18. Directorate of Excise
19. Central Police Office

**DEPARTMENTS**

- CCPO
- CTD
- Central-Police
- CM Secretariat
- AG-Office
- Public-Service Commission
- Excise & Taxation
- IMU-Education
- Benevolent-Building
- Directorate Of IT
- Transport-Driving-License
- Traffic-Police Driving-License

**Remote-Sites Connected Over Dedicated Back-Bone Fiber**



**Cable Description**

**3M-High Performance Fiber Cable – Indoor/Outdoor**

9/125um Single Mode 8 Core Optical Cable

**Standards**

GR-409, ANSI/ICEA S-83-596, UL-1685, UL-1666, NFPA-262, CSA 22.2 No 230,TIA 568-C.3,RoHS Compliance

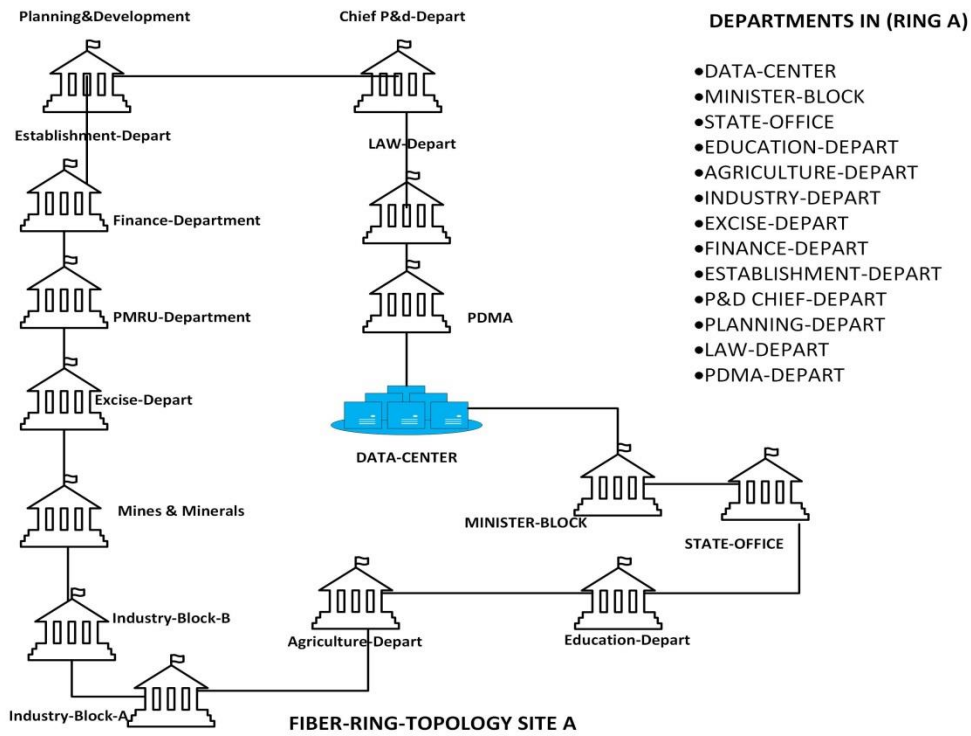
**Technical-Specification**

9/125 μm OS2, G.657.A2/B2 7.5 mm bend radius fibers (1, 2, 6, 12, 24 and 48 fibers) or G.657.B3 ultra bend insensitive 5.0 mm bend radius fibers (1, 2 fiber).

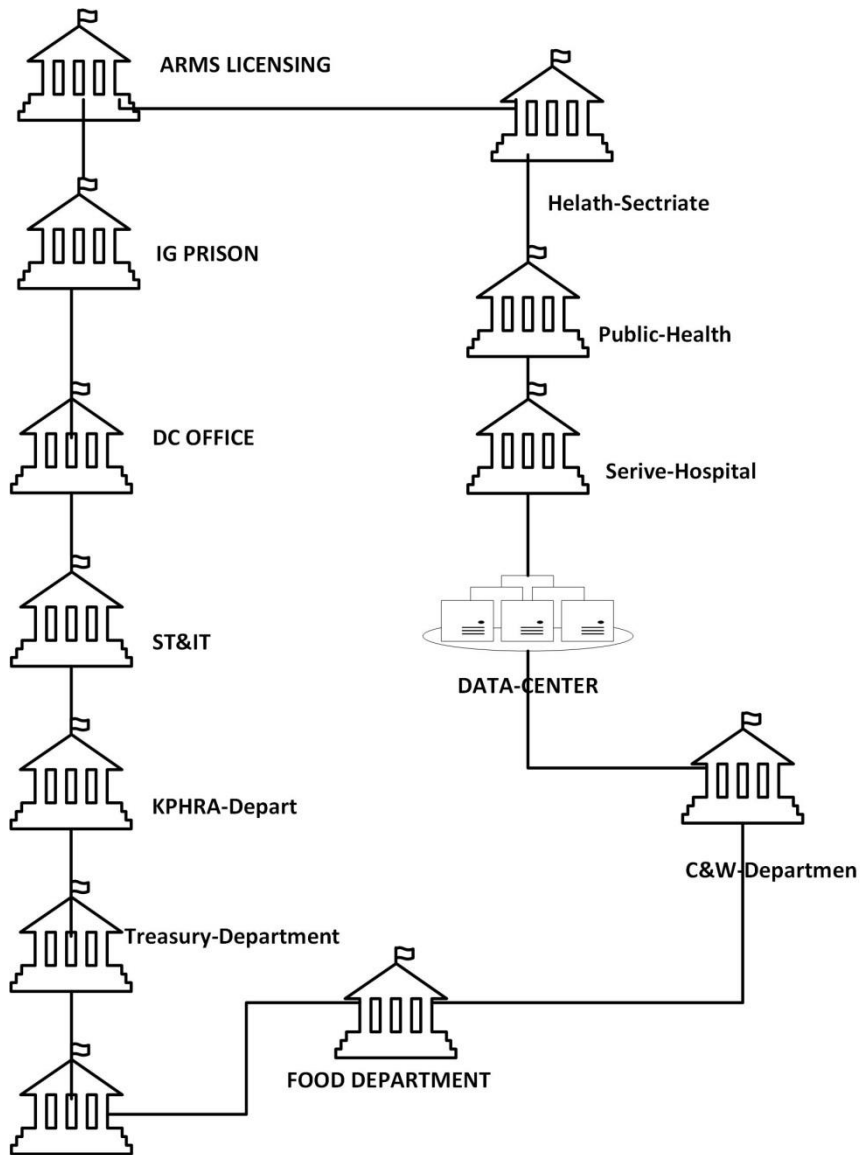
**Fiber Count 8 Core**

**Cable Length 13 KM**

**No Of Including WAPDA Electric Poles 256**



Cable Description
3M-High Performance Fiber Cable – Indoor/Outdoor
9/125um Single Mode 8 Core Optical Cable
Standards Telcordia GR-409, ANSI/ICEA S-83-596, UL-1685, UL-1666, NFPA-262, CSA 22.2 No 230,TIA 568-C.3,RoHS Compliant
Technical-Specification 9/125 μm OS2, G.657.A2/B2 7.5 mm bend radius fibers (1, 2, 6, 12, 24 and 48 fibers) or G.657.B3 ultra bend insensitive 5.0 mm bend radius fibers (1, 2 fiber).
Fiber Count 8 Core
Cable Length 6 KM



**DEPARTMENTS IN (RING B)**

- DATA-CENTER
- C&W
- HALAL-FOOD
- LOCAL-GOV
- PUBLIC-HEALTH
- TREASUREY DEPART
- KPHA-DEPART
- HEALTH-SECRETRIATE
- DC-OFFICE
- IG-PRISON
- SERVICE-HOSPITAL
- ARMS DEPART

**FIBER-RING-TOPOLOGY SITE B**

Cable Description
3M- High Performance Fiber Cable – Indoor/Outdoor
9/125um Single Mode 8 Core Optical Cable
Standards Telcordia GR-409, ANSI/ICEA S-83-596, UL-1685, UL-1666, NFPA-262, CSA 22.2 No 230,TIA 568-C.3,RoHS Complian
Technical-Specification 9/125 μm OS2, G.657.A2/B2 7.5 mm bend radius fibers (1, 2, 6, 12, 24 and 48 fibers) or G.657.B3 ultra bend insensitive 5.0 mm bend radius fibers (1, 2 fiber.
Fiber Count 8 Core
Cable Length 6 KM

## FORMS & OTHER REQUIRED DOCUMENTS

### ANNEXURE-B

#### Technical Proposal Submission Form

[Location, Date]

To (Name and address of Client / Purchaser)

Dear Sir,

We, the undersigned, offer to provide the \_(insert title of assignment)\_ in accordance with your Request for Proposal/Tender Document No.\_\_\_\_\_ dated \_(insert date)\_ and our Proposal. We are hereby submitting our Proposal, which includes the Technical Proposal and the Financial Proposal sealed in two separate envelopes.

We undertake, if our Proposal is accepted, to provide supply of \_\_\_\_\_related to the assignment.

We also confirm that the Government of Pakistan / Khyber Pakhtunkhwa has not declared us, or any, ineligible on charges of engaging in corrupt, fraudulent, collusive or coercive practices. We furthermore, pledge not to indulge in such practices in competing for or in executing the Contract, and we are aware of the relevant provisions of the Proposal Document.

We understand you are not bound to accept any Proposal you receive.

We remain,  
Yours sincerely,

Authorized Signature (Original)

(In full and initials)

Name and Designation of Signatory

Name of Firm

Address

## ANNEXURE-C

### **Financial Proposal Submission Form (Part of Financial Bid Envelope)**

[Location, Date]

To (Name and address of Client / Purchaser)

Dear Sir,

We, the undersigned, offer to provide the \_(Insert title of assignment)\_ in accordance with your Request for Proposal No. \_\_\_\_\_ dated \_(insert date)\_ and our Technical Proposal. Our attached Financial Proposal is for the sum of \_(insert amount in words and figures)\_. This amount is inclusive of all taxes.

Our Financial Proposal shall be binding upon us up to expiration of the validity period of the Proposal, i.e. before the date indicated in \_\_\_\_\_ of the Proposal Data Sheet.

We also declare that the Government of Pakistan / Khyber Pakhtunkhwa has not declared us or any Sub-Contractors for any part of the Contract, ineligible on charges of engaging in corrupt, fraudulent, collusive, or coercive practices. We furthermore, pledge not to indulge in such practices in competing for or in executing the Contract, and are aware of the relevant provisions of the Proposal Document.

We understand you are not bound to accept any Proposal you receive.

Signed

In the capacity of:

Duly authorized to sign the proposal on behalf of the Applicant.

Date:

## ANNEXURE-D

### Price Schedule/ Financial Cost Sheet **FINANCIAL COST SHEET FOR PACKAGE -1**

Sr. No.	Item/Component Description	No. of Units	Price per Unit (excluding Tax) PKR	Tax Amount per unit (PKR)	Price per Unit (incl. Tax) PKR	Total Cost (No. of units* per unit price incl. Taxes)
1	Blade Servers (High End Blades)	10				
	VM Ware ESXI (Enterprise Plus Licenses) for blades	10				
	V Center (Enterprise Plus License)	1				
	KP Data Center VMware local Training	5				
2	Backup Solution (Hardware Based)	02				
3	Storage - All Flash 50TB Useable	01				
4	SAN Switch	02				
5	Cisco Nexus 5k 40 G 4 Port Module	02				
6	Laptops	07				
7	65 Inch LED Smart Screen	02				
8	Miscellaneous					
	Baynet LAN Roles	5				
	wifi Router	20				
	Network Engineer Kit	3				
	RAM	20				
<b>TOTAL COST FOR PACKAGE -1 (in Rupees)</b>						
<b>X =</b>						
<b>TOTAL COST FOR PACKAGE-1 (in Million)</b>						
<b>X =</b>						

#### **NOTE:**

- (i) X will determine the total Cost for PACKAGE - 1 including licensing cost for 2 years.
- (ii) Prices must be quoted for all items under purchase of Hardware.
- (iii) Hardware quoted must be legally imported in Pakistan after paying all taxes.
- (iv) Payment against above packages shall be made on as per actual basis.
- (v) The Purchaser reserves exclusive rights to increase / decrease the quantities of the Hardware mentioned above vide this tender document.
- (vi) The Framework Contract duration shall be for the period of two (2) years starting from the issuance of LOA, renewable on yearly basis based on provisioning of satisfactory services / goods by the Contractor, needs, requirements and approved budgetary provisions of the Purchaser.

Total Cost (in words) Rs. \_\_\_\_\_

Date \_\_\_\_\_

Signature of authorized person

Name:

(Company Seal)

---

In the capacity of  
Duly authority by

**Note: No cutting or overwriting is allowed. Any cutting or overwriting will lead to rejection of the financial bid.**



**FINANCIAL COST SHEET FOR PACKAGE -2**

Sr. No.	Item/Component Description	No. of Units	Price per Unit (excluding Tax) PKR	Tax Amount per unit (PKR)	Price per Unit (incl. Tax) PKR	Total Cost (No. of units* per unit price incl. Taxes)
1	Fortinet Fortigate 3040B	2				
2	Fortinet 1500 D License	1				
3	Public IP Class (256 IPs)	1				
4	Imunify 360 C Panel firewall	15				
5	WHM Renewal	15				
<b>TOTAL COST FOR PACKAGE -2 (in Rupees)</b> X =						
<b>TOTAL COST FOR PACKAGE-2 (in Million)</b> X =						

**NOTE:**

- (i) Prices must be quoted for all items under purchase of Hardware.
- (ii) Hardware quoted must be legally imported in Pakistan after paying all taxes.
- (iii) Payment against above packages shall be made on as per actual basis.
- (iv) The Purchaser reserves exclusive rights to increase / decrease the quantities of the Hardware mentioned above vide this tender document.
- (v) The Framework Contract duration shall be for the period of two (2) years starting from the issuance of LOA, renewable on yearly basis based on provisioning of satisfactory services / goods by the Contractor, needs, requirements and approved budgetary provisions of the Purchaser.

Total Cost (in words) Rs. \_\_\_\_\_

Date \_\_\_\_\_

Signature of authorized person

Name:

(Company Seal)

\_\_\_\_\_  
In the capacity of

Duly authority by

**Note: No cutting or overwriting is allowed. Any cutting or overwriting will lead to rejection of the financial bid.**

**FINANCIAL COST SHEET FOR PACKAGE -3**

**Support/Services/Maintenance Charges**

Commencing on the service date, ST & IT Department will pay to M/s XYZ for the services as follows:

	<b>Price Without GST (PK Rs.)</b>	<b>Price including GST + Services Taxes by KPRA</b>
<b>Total Maintenance Contract Cost Per Year</b>		
<b>Total Maintenance Contract Cost Per Quarter</b>		

**Raising Of Invoice**

For the maintenance contract, XYZ will raise bill/invoice on quarterly basis for previous quarter setting out in detail services rendered to ST & IT Department , to enable ST & IT Department to check the veracity of the services rendered under Contractual Terms and Conditions.

**Payment of Bills**

Within 30 Working days of receipt of invoice, ST & IT Department would settle the bill, if found correct and in order in regard to services as detailed in the invoice. In the event of any mistake/defect the matter would be referred back to M/s XYZ for clarification of disputed portion of the invoice. Until such time the clarification is received, the disputed portion of the invoice would remain unsettled.

Date \_\_\_\_\_

Signature of authorized person

Name:

(Company Seal)

\_\_\_\_\_  
In the capacity of

Duly authority by

**Note: No cutting or overwriting is allowed. Any cutting or overwriting will lead to rejection of the financial bid.**

**FINANCIAL COST SHEET FOR PACKAGE -4**

**Support/Services/Maintenance Charges**

Commencing on the service date, ST & IT Department will pay to M/s XYZ for the services as follows:

	<b>Price Without GST (PK Rs.)</b>	<b>Price including GST + Services Taxes by KPRA</b>
<b>Total Maintenance Contract Cost Per Year</b>		
<b>Total Maintenance Contract Cost Per Quarter</b>		

**Raising Of Invoice**

For the maintenance contract, XYZ will raise bill/invoice on quarterly basis for previous quarter setting out in detail services rendered to ST & IT Department, to enable ST & IT Department to check the veracity of the services rendered under Contractual Terms and Conditions.

**Payment of Bills**

Within 30 Working days of receipt of invoice, ST & IT Department would settle the bill, if found correct and in order in regard to services as detailed in the invoice. In the event of any mistake/defect the matter would be referred back to M/s XYZ for clarification of disputed portion of the invoice. Until such time the clarification is received, the disputed portion of the invoice would remain unsettled.

Date \_\_\_\_\_

Signature of authorized person

Name:

(Company Seal)

\_\_\_\_\_  
In the capacity of

Duly authority by

**Note: No cutting or overwriting is allowed. Any cutting or overwriting will lead to rejection of the financial bid.**

## ANNEXURE-E

### Format for Covering Letter

To  
(Name and address of Purchaser)

**Sub:** \_\_\_\_\_.

Dear Sir,

- a) Having examined the tender document and Appendixes we, the undersigned, in conformity with the said document, offer to provide the said items / Services on terms of reference to be signed upon the award of contract for the sum indicated as per financial bid.
- b) We undertake, if our proposal is accepted, to provide the items/services comprise in the contract within time frame specified, starting from the date of receipt of notification of award from the client Department / Office.
- c) We agree to abide by this proposal for the period of \_\_\_\_ days (as per requirement of the project) from the date of bid opening and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
- d) We agree to execute a contract in the form to be communicated by the \_(insert name of the Purchaser)\_, incorporating all agreements with such alterations or additions thereto as may be necessary to adapt such agreement to the circumstances of the standard.
- e) Unless and until a formal agreement is prepared and executed this proposal together with your written acceptance thereof shall constitute a binding contract agreement.
- f) We understand that you are not bound to accept a lowest or any bid you may receive, not to give any reason for rejection of any bid and that you will not defray any expenses incurred by us in bidding.

\_\_\_\_\_  
Authorized Signatures with Official Seal

## ANNEXURE-F

### **INSTRUCTION FOR PREPARATION OF POWER OF ATTORNEY**

- a) To be executed by an authorized representative of the bidder.
- b) The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executants and when it is so required the same should be under common seal affixed in accordance with the required procedure.
- c) Also, wherever required, the Bidder should submit for verification the extract of the charter documents and documents such as a resolution/power of attorney in favor of the Person executing this Power of Attorney for the delegation of power hereunder on behalf of the Bidder.
- d) In case the Application is signed by an authorized Director / Partner or Proprietor of the Applicant, a certified copy of the appropriate resolution / document conveying such authority may be enclosed in lieu of the Power of Attorney.

**Format of Power-of-Attorney**

**POWER OF ATTORNEY**

(On Stamp Paper of relevant value)

Know all men by these presents, we (name of the company and address of the registered office) do hereby appoint and authorize Mr. (full name and residential address) who is presently employed with us and holding the position of as our attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to our proposal for (name of the project) in response to the tenders invited by the (name of the Purchaser) including signing and submission of all documents and providing information/responses to (name of the Purchaser) in all matters in connection with our Bid.

We hereby agree to ratify all acts, deeds and things lawfully done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall and shall always be deemed to have been done by us.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_

For \_\_\_\_\_

(Signature)

(Name, Designation and Address)

Accepted

(Signature)

(Name, Title and Address of the Attorney)

Date:

## ANNEXURE-G

### **UNDERTAKING**

It is certified that the information furnished here in and as per the document submitted is true and correct and nothing has been concealed or tampered with. We have gone through all the conditions of tender and are liable to any punitive action for furnishing false information / documents.

Dated this \_\_\_\_ day of \_\_\_\_\_ 20\_\_.

Signature

(Company Seal)

\_\_\_\_\_

In the capacity of

Duly authorized to sign bids for and on behalf of:





## ANNEXURE-I

### BID SECURITY FORM

**WHEREAS** [Name and Address of the Contractor] (hereinafter called "the Contractor") has submitted Tender against Tender Name \_\_\_\_\_, Tender No. \_\_\_\_\_, (hereinafter called "the Tender") to the [Name and Address of the Purchaser] (hereinafter called "the Purchaser") for the Total Tender Price of PKR (in figures \_\_\_\_\_) (in words \_\_\_\_\_).

**AND WHEREAS** [Name of the Bank] having registered office at [Address of the Bank] (hereinafter called "the Guarantor") has agreed to give the Contractor a Guarantee;

**THEREFORE** the Guarantor hereby affirms to bind himself, his successors and his assigns to the Purchaser, for the sum of PKR (in figures \_\_\_\_\_) (in words \_\_\_\_\_) and undertakes to pay to the Purchaser, upon receipt of his written demand(s), any sum(s) as specified by him, not exceeding the above limit in aggregate, without cavil / argument and without the Purchaser having to substantiate / prove or to show grounds / reasons for such claim(s), on the occurrence of any / all of the following conditions:

1. If the Contractor withdraws the Tender during the period of the Tender validity specified by the Contractor on the Tender Form; or
2. If the Contractor does not accept the corrections of his Total Tender Price; or
3. If the Contractor, having been notified of the acceptance of the Tender by the Purchaser during the period of the Tender validity, fails or refuses to furnish the Performance Security, in accordance with the Tender Document.

Provided that the Purchaser shall specify the occurred condition(s) owing to which the said sum is due to him.

Provided further that any demand(s) / claim(s) from the Purchaser shall reach the Guarantor within thirty working days after the expiry of the Guarantee.

This guarantee shall remain valid up to \_\_\_\_\_ or until furnishing of the Performance Security, whichever is later.

Date this \_\_\_\_\_ day of 20\_\_\_\_.

#### **GUARANTOR**

Signature \_\_\_\_\_  
CNIC # \_\_\_\_\_  
Name \_\_\_\_\_  
Designation \_\_\_\_\_  
Address \_\_\_\_\_

## ANNEXURE-J

### PERFORMANCE SECURITY

**Issuing Authority:**

**Date of Issuance:**

**Date of Expiry:**

**Claim Lodgment Date: (Must be one month later than the expiry date)**

**WHEREAS** [Name and Address of the Contractor] (hereinafter called "the Contractor") has agreed to supply the Goods and render the Services against Tender Name. \_\_\_\_\_, Tender No. \_\_\_\_\_ (hereinafter called "the Contract") for the Contract Value of PKR (in figures \_\_\_\_\_) (in words \_\_\_\_\_).

AND WHEREAS it has been stipulated in the Tender Document that the successful Contractor shall furnish Performance Security, within twenty eight (28) days of the receipt of the Acceptance Letter (Letter of Acceptance) from the Purchaser, in the form of a Bank Guarantee, issued by a scheduled bank operating in Pakistan, as per this format, for a sum equivalent to Rs. \_\_\_\_\_ (10% of the contract value) valid from the date of issue until all obligations have been fulfilled in accordance with the Contract;

AND WHEREAS [Name of the Bank] having registered office at [Address of the Bank] (hereinafter called "the Guarantor") has agreed to give the Contractor a Guarantee;

THEREFORE the Guarantor hereby affirms to bind himself, his successors and his assigns to the Purchaser, for the sum of PKR (in figures \_\_\_\_\_) (in words \_\_\_\_\_) and undertakes to pay to the Purchaser, upon receipt of his written demand(s), any sum(s) as specified by him, not exceeding the above limit in aggregate, without cavil / argument and without the Purchaser having to substantiate / prove or to show grounds / reasons for such claim(s), on the occurrence of any / all of the following conditions:

1. If the Contractor commits a default under the Contract;
2. If the Contractor fails to fulfill any of the obligations under the Contract;
3. If the Contractor violates any of the provisions of the Contract.

Provided that the Purchaser shall specify the occurred condition(s) owing to which the said sum is due to him.

Provided further that any demand(s) / claim(s) from the Purchaser shall reach the Guarantor within thirty working days after the expiry of the Guarantee.

This guarantee shall remain valid up to \_\_\_\_\_ or until expiry of warranties / support period or all obligations have been fulfilled in accordance with the Contract, **whichever is later**.

Date this \_\_\_\_\_.

#### **GUARANTOR**

Signature \_\_\_\_\_

CNIC # \_\_\_\_\_

Name \_\_\_\_\_

Designation \_\_\_\_\_

Address \_\_\_\_\_

## ANNEXURE-K

### Financial Capacity of the Bidder

Additionally, the following financial data form shall be filled out for the Bidder. The Purchaser reserves the right to request additional information about the financial capacity of the Bidder. A Bidder that fails to demonstrate through its financial records that it has the financial capacity to perform the required Supply/Services may be disqualified.

Financial Information	Historical information for the previous three years (most recent to oldest in (PAK Rupees))		
	Year 1 (Year)	Year 2 (Year)	Year 3 (Year)
Information from Balance Sheet:			
(1) Total Assets (TA)			
(2) Current Assets (CA)			
(3) Total Liabilities (TL)			
(4) Current Liabilities (CL)			
Information from Income Statement:			
(5) Total Revenue (TR)			
(6) Profits before Taxes (PBT)			
Net Worth (1) – (3)			
Current Ratio (2) / (4)			

Provide information on current or past litigation or arbitration over the last three (3) years as shown in the form below.

Litigation or arbitration in the last three (3) years: No: \_\_\_\_\_ Yes: \_\_\_\_\_ (See below)

Litigation and Arbitration During Last three (3) Years

Year

Matter in Dispute

Value of Award Against  
Contract in PAK Rupees

\_\_\_\_\_  
Authorized Signatures with Official Seal

## ANNEXURE-L

### **MAIN COMPONENTS UNDER SERVICE LEVEL AGREEMENT**

S.No	Component	Scope of Work under SLA	Remarks
1	Hardware	All hardware equipment installed at Data Center (Primary Site & DR Site) will be part of scope of work. i.e. Blade Servers, Blade chassis, Storages, Firewalls, Fire Suppression, Smoke Detection, Racks, etc. All Hardware equipment specified or not specified will be part of scope of work and Solution provider will cover under SLA.	List and specifications of major Hardware installed are given below
2	HVAC	All precision cooling systems installed at Data Center (primary site & DR Site) will be part of scope of work. All cooling equipment specified or not specified in Data Center will be part of scope of work and Solution Provider will cover under SLA	List and Specification of major HVAC systems are given below.
3	Power	All power equipment (UPS, Power Modules, GenSet, LV Panels, Electrification at Primary Site and DR Site, Electrification for network equipment will be part of scope of work under the SLA. All cooling equipment specified or not specified in Data Center will be part of scope of work and Solution Provider will cover under SLA.	List and Specification of major power equipments are given below
4	Networking	Maintenance of Networks within the Primary Site and DR Site, Fiber Optic Connectivity among the connected Departments, establishment of redundant Fiber Optic network, networking equipments, patch cords, other necessary equipment, networking in NOC, etc. will be covered under SLA. Solution provider will establish redundant fiber connectivity and maintain the existing fiber networks will be part of scope of work and will cover under SLA	List and Specification of major power equipments are given below.

**Note: The selected tenderer will also mention the above mentioned tables in the Service Level Agreement failing to compliance can lead to cancellation of overall process.**

## DETAIL OF EQUIPMENTS

### **LV PANEL EQUIPMENT (Main Site)**

Description of Items	Manufacturer/Origin	Qty
LV Electrical Panel - Type Tested	Schneider Electric, Prisma Plus, France	1
Flexible Copper Bus Bars		
Remote Monitoring through TCP/IP, PM710 Energy Analyzers		
Mains Incoming		
UPS incoming & outgoing through MCCB		
Lighting & AC outgoing through MCCB, ACs		
LED Screens	Samsung	2

### **UPS (Main Site)**

Description of Items	Manufacturer/Origin	Qty
APC 48 KW With 16 KW Redundant Module Expandable to 96 KW	APC - SY48K96H	1

### **PDPM (Main Site)**

Description of Items	Manufacturer/Origin	Qty
Modular Power Distribution - PDPM138H-5U	APC, By Schneider Electric	1
32 A Circuit Breakers Modules & Appropriate Length of Cable	APC, By Schneider Electric	18

### **FIRE ALARM / SUPRESSION SYSTEM (Main Site)**

Description of Items	Manufacturer/Origin	Qty
Detection: Intelligent fire alarm / suppression control system & accessories	Kiddie/Notifier	1
Software Monitoring: Precise Vision Intelligent Graphic Monitoring Software	Kiddie/Notifier	1
Suppression: Fire suppression NOVEC1230 clean agent and accessories	3M	1
VESDA		1

### **CABLING (Main Site)**

Description of Items	Manufacturer/Origin	Qty
2.5mm, 3Core H07RNF for AC control	Top Cable Sweden	100
16mm, 5 Core H07RNF for AC and UPS	Top Cable Sweden	50
95 mm,5 core H07RNF for Gen set	Top Cable Sweden	150
70 mm single core for Grounding	Top Cable Sweden	100
Galvinized Cable tray	Wibe	100

### **HVAC (Cooling) Equipment (Main Site)**

Description of Items	Manufacturer/Origin	Qty
CYBER AIR 412 A 41 KW N+1	Stulz, Germany	2
with matching air cooled condenser N+1 configuration		
Supply of Network Monitoring System WIB8000 in a separate steel box, compatible with above Stulz equipment	Stulz, Germany	1
Stulz Minispace 151 15 KW N+1	Stulz, Germany	2
with matching air cooled condenser N+1 configuration		
Supply of Network Monitoring System WIB8000 in a separate steel box, compatible with above Stulz equipment	Stulz, Germany	1
Panasonic Split 2 tonz		2

### **RACKS (Main Site)**

Description of Items	Manufacturer/Origin	Qty
APC 42 U Rack AR3100	APC, By Schneider Electric	7
APC Rack PDU AP7553	APC, By Schneider Electric	14

### **WIRELESS CONTROLLER SOLUTION (Main Site)**

Description of Items	Manufacturer/Origin	Qty
AIR-ANT2524DW-R	Cisco AP Antenna	60
AIR-CAP2602E-E-K9	Cisco Access Point	15
AIR-CT5508-K9	Cisco Wireless Controller	1

### **SERVER BLADE SOLUTION (Main & DR Site)**

Description of Items	Manufacturer/Origin	Qty
Blade Enclosure & Networking	Supermicro TwinBlade™ Enclosure - SBE-710Q-R90 4 x 3000W 2 x Supermicro SBM-GEM-X3S+ - 1/10-Gigabit Ethernet Switch with 3x 10Gb Uplinks 2 x Supermicro SBM-XEM-X10SM - 10 Gigabit Ethernet Switch Supermicro TwinBlade™ mini-CMM (Chassis Management Module)	3
SM Twin Blades (2 DP Nodes in each blade, 10Gb Connectivity)	Supermicro TwinBlade Intel Xeon SBI-7227R-T2 Blade Module 4 x 8C E5-2660 2.2G 20M 8GT/s QPI 12 x 16GB DDR3 ECC Registered DIMM	22

	<p>4 x 240GB 2.5" SATA Solid State Drive (MLC)  2 x Supermicro AOC-XEH-iN2 - Dual Port 10 Gigabit Ethernet (Intel 82599)</p>	
<p>Super Storage: SSG-6047R-E1R36N</p>	<p>2 x Eight-Core Intel® Xeon® Processor E5-2660 2.2G 20M 8GT/s QPI  Intel® C602 Chipset - Quad Intel® Gigabit Ethernet - 8x SATA - IPMI 2.0 with LAN  16 x 8GB PC3-12800 1600Mhz DDR3 ECC Registered DIMM Supermicro  SuperChassis CSE-847E16-R1K28LPB-4U - 36 x 3.5" SATA - Single Expander - 1280W Redundant  36 x 600GB SAS 2.0 (6.0Gbps) 15000RPM - 3.5" - Hitachi Ultrastar™ 15K600  2 x 120GB 2.5" SATA Solid State Drive (MLC) (Kit)  SM AOC SAS2L-H8IR ( 2208 LSI MegaRAID-8i SAS 6Gb/s 8-Port Controller with 1GB Cache  Battery Backup Unit LSiBBU09 (for LSI 2208)  2 x AOC-STGN-I2S 10-Gigabit Ethernet Converged Network Adapter X520 (Copper) (2x SFP+)  Quick-Release Rackmount Mounting Rails - 26.5" to 36.4" Open-E DSS V7, Unlmtied SAN / NAS Storage OS with 1 - year Gold support</p>	<p>2</p>

**FLOORING (Main Site)**

Description of Items	Manufacturer/Origin	Qty
ISO Raised Flooring NEBS 0	Bergvik, Sweden	980
500 mm Height, 600x600 Aluminum Back Tiles		
Pedestal, Primary & Secondary Stringer Bars		
UDL: 15KN/Square Meter		
Laying, Fitting & Fixing		1

**NETWORK INFRASTRUCTURE EQUIPMENTS (Main Site)**

Description of Items	Manufacturer/Origin	Qty
Cisco 2901 w/2 GE 4 EHWIC 2 DSP 256MB CF 512MB DRAM IP Base	<b>CISCO2901/K9</b>	2
SMARTNET 8X5XNBD Cisco 2901	CON-SNT-2901	2
Cisco 2901-2921 IOS UNIVERSAL	S29UK9-15204M	2
2-Port 3rd Gen Multiflex Trunk Voice/WAN Int. Card - T1/E1	VWIC3-2MFT-T1/E1	2
Cisco 2901 AC Power Supply	PWR-2901-AC	2
AC Power Cord (UK) C13 BS 1363 2.5m	CAB-ACU	2
Insert Packout - PI-MSE	PI-MSE-PRMO-INSRT	2
IP Base License for Cisco 2901-2951	SL-29-IPB-K9	2
Cisco Config Pro Express on Router Flash	ISR-CCP-EXP	2
512MB DRAM for Cisco 2901-2921 ISR (Default)	MEM-2900-512MB-DEF	2
256MB Compact Flash for Cisco 1900 2900 3900 ISR	MEM-CF-256MB	2
Nexus 5596UP 2RU Chassis 2PS 4 Fans 48 Fixed 10GE Ports	<b>N5K-C5596UP-FA</b>	2
SMARTNET 8X5XNBD Nexus 5596UP 2RU Chassis 2PS 4 Fans	CON-SNT-5596UP	2
Nexus 5596 Chassis Accessory Kit	N5596-ACC-KIT	2
Layer 3 Base License for Nexus 5500 Platform	N55-BAS1K9	2
Nexus 5500 Module Blank Cover	N55-M-BLNK	4
Nexus 5500 PS 1100W Front to Back Airflow	N55-PAC-1100W	4
Nexus 5596 Layer 3 Expansion Module	N55-M160L3	2
Layer 3 License for Nexus 5500 Platform	N55-LAN1K9	2
Nexus 5000 Base OS Software Rel 5.1(3)N1(1)	N5KUK9-513N1.1	4
Power Cord 250VAC 10A BS1363 Plug (13 A fuse) UK	CAB-9K10A-UK	4
Nexus 5596UP Fan Module	N5596UP-FAN	8
1000BASE-T SFP	<b>GLC-T=</b>	4
10GBASE-SR SFP Module	<b>SFP-10G-SR=</b>	6

**Fire Wall (Main Site)**

Description of Items	Manufacturer/Origin	Qty
1 Years 5X8 Comprehensive Multi--Year Bundle: 8 SFP+ FortiASIC 10--Gig ports (2 SFP+ SR--type transceivers included) , 10 SFP FortiASIC, 2 10/100/1000 ports, 4 FSM Slots, 1 FSM--064 with 64GB SSD storage, and dual AC power supplies --24x7 Bundle Renewals & Support -- 1 years		1



Transceiver Base--T (Copper) module for all FortiGate models with SFP interfaces, supports 10/100/1000 operation with RJ45 connector		2
Transceiver LX		2

### **GENERATOR (Main Site)**

Description of Items	Manufacturer/Origin	Qty
Diesel Generator set rating 150 KVA		2
Perkins engine		

### **VIDEO SURVEILLANCE SYSTEM (Main Site)**

Description of Items	Part No.	Qty
Sarix™ IM-V Network Fixed Vandal Resistant Mini dome Camera Standard Definition Day Night Vari-focal Lens 2.8-10mm Light Gray Clear dome With Liner for False Ceiling	IMS0DN10-1V	5
Network Video Recorder 3TB US Power Cord	DSSRV-030-US	1
Installation, Configuration & Commissioning for above system	CNS Engineering	1

### **CARD ACCESS CONTROL SYSTEM (Main Site)**

Description of Items	Part No.	Qty
Schneider Electric Continuum Access controller for 4 doors	ACX-5740	Nos
Schneider Electric Continuum Power Supply for ACX	CX99	Nos
Iclass RFID Readers for entry and Exit	R10	Nos
iclass 16k -26bit wiegand Access Cards (Pack of 100)	6541554100	Box
Single User Cyberstation software with one web clients	SU-SEC-P-WC1PRO-USB	Nos
ACCESS EVENTS PLUS	ACCESS EVENTS PLUS	Nos

### **BUILDING MONITORING SYSTEM (Main Site)**

Description of Items	Part No.	Qty
Netbotz Rack Monitor 450(with 120/240V power supply)	NBRK0450	1
Netbotz Rack Sensor Pod 150	NBPD0150	1
Temp/Humidity Sensor	AP9335TH	8
Netbotz Camera Pod 160	NBPD0160	2
USB repeater Cables	NBAC0209L	5
Netbotz Door Switch Sensor DC door	NBES0302	1
APC 24 port Ethernet 10/100 switch	AP9224110	1
APC Category 5 UTP 568B Patch Cable Grey RJ45/RJ45	3827GY-10	4
APC Category 5 UTP 568B Patch Cable Grey RJ45/RJ45	3827GY-30	4
ISX Central Basic	AP9465	1
1 year Infrastructure central basic software support contract	WMS1YRSTD	1
Installation and configuration charges	JOB	1

## ACCESS SWITCHES (Main Site)

Product Part #	Product Description	Qty
GLC-LX-LH=	1000BASE-LX SFP transceiver module SMF	36
WS-C2960CPD-8PT-L	Catalyst 2960C PD PSE Switch 8 FE PoE 2 x 1G LAN Base	36
CON-SNT-WSC2960C	SMARTNET 8X5XNBD Catalyst 2960C PD PSE Switch 8 FE PoE	36
CAB-AC2E	AC Power cord Europe	36
GLC-LX-LH=	1000BASE-LX SFP transceiver module SMF	36

## VOICE OVER IP TELEPHONY SYSTEM (Main Site)

Product Part #	Product Description	Qty
R-UCL-UCM-LIC-K9	Top Level SKU For 9.x User License - Electronic Delivery	1
CCX-90-CMBUNDLE-K9	CCX 9.0 Promo Bundle available only with NEW CUCM or BE6000	1
JABBER-IM-RTU	Jabber for Everyone Right to Use	1
LIC-CUCM-9X-ENH	UC Manager Enhanced 9.x License	40
UCM-PAK	UCM 9X PAK	1
UCSS-UCM-PAK	Include PAK Auto-expanding UCSS PAK for CUCM	1
CON-ESW-RUCLUCK9	ESSENTIAL SW Top Level SKU For 9.	1
CUCM-VERS-9.X	CUCM Software Version 9.X	1
JABBER-IM-ADDON	Jabber for Everyone Additional IM Users	40
LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User-Under 1K	40
CON-ESW-LICCENHA	ESSENTIAL SW UC Manager-9.x Enhanced Single User-Unde	40
UCSS-UCM-ENH-A-3-1	UC Manager Enh UCSS Less than 1K users - 1 user - 3 years	40
R-VMW-UC-FND5-K9	Cisco UC Virt. Foundation 5.0 (2-Socket, 32GB vRAM)	1
VMW-UC-FND5-SNS	Cisco UC Virt. Foundation 5.0 SnS	1
CON-ESW-UCFND5	ESSENTIAL SW Cisco UC Virt. Foundation 5.0 (2-Socket	1
UCSC-C220-M3S(TRC#2)	UCS C220 M3 SFF w/o CPU, mem, HDD, PCIe, PSU, w/ rail kit	1
N20-BBLKD	UCS 2.5 inch HDD blanking panel	4
UCSC-HS-C220M3	Heat Sink for UCS C220 M3 Rack Server	2

UCSC-PCIF-01F	Full height PCIe filler for C-Series	1
UCSC-PSU-BLKP	Power supply blanking panel/filler	1
UCSC-RAIL1	Rail Kit for C220, C22, C24 rack servers	1
A03-D500GC3	500GB 6Gb SATA 7.2K RPM SFF hot plug/drive sled mounted	4
CAB-9K10A-UK	Power Cord, 250VAC 10A BS1363 Plug (13 A fuse), UK	1
UCS-CPU-E5-2609	2.4 GHz E5-2609/80W 4C/10MB Cache/DDR3 1066MHz	2
UCS-MR-1X082RY-A	8GB DDR3-1600-MHz RDIMM/PC3-12800/dual rank/1.35v	4
UCS-RAID-9266CV	MegaRAID 9266CV-8i w/TFM + Super Cap	1
R2XX-RAID5	Enable RAID 5 Setting	1
UCSC-PSU-650W	650W power supply for C-series rack servers	1
UCSC-SD-16G-C220	16GB SD Card Module for C220 servers	1
CP-7945G	Cisco UC Phone 7945 Gig Ethernet Color	40
CON-SNTP-CP7945	SMARTNET 24X7X4 Cisco Unified IP Phone 7945	40
SW-CCM-UL-7945	CUCM 3.x or 4.x RTU lic. for single IP Phone 7945	40
CISCO2911-V/K9	Cisco 2911 UC Bundle PVD3-16 UC License PAK	1
CON-SAU-2911V	SW APP SUPP + UPGR Cisco 2911 Voice Bundle	1
S29UK9-15102T	Cisco 2901-2921 IOS UNIVERSAL	1
ISM-SRE-300-K9	Internal Services Module (ISM) with Services Ready Engine	1
CON-SAU-ISRE300	SW APP SUPP + UPGR Internal Services Module (ISM) with SRE	1
SCUE-ISM-8.6-K9	Cisco Unity Express Release 8.6	1
FL-CUE-NR-PORT-2	Unity Express License - Non Re-hostable - 2 Port	1
CUE-LANG-ENU	Cisco Unity Express - North American English	1
FL-CUE-IVR-2	Unity Express License - 2 IVR Session	1
PVD3-16	16-channel high-density voice and video DSP module	1
PWR-2911-AC	Cisco 2911 AC Power Supply	1
CAB-ACE	AC Power Cord (Europe) C13 CEE 7 1.5M	1
SL-29-IPB-K9	IP Base License for Cisco 2901-2951	1
SL-29-UC-K9	Unified Communication License for Cisco 2901-2951	1

ISR-CCP-EXP	Cisco Config Pro Express on Router Flash	1
MEM-2900-512MB-DEF	512MB DRAM for Cisco 2901-2921 ISR (Default)	1
MEM-CF-256MB	256MB Compact Flash for Cisco 1900 2900 3900 ISR	1
PVDM3-16	16-channel high-density voice and video DSP module	1

#### **Vulnerability and Pen Testing (Main Site)**

Description of Items	Manufacturer/Origin	Qty
Vulnerability and Pen testing of hosted websites / apps		

#### **UPS (DR Site)**

Description of Items	Manufacturer/Origin	Qty
APC 10 KVA N+1	APC - SUVTP10KH2B2S	2

#### **FIRE ALARM / SUPPRESSION SYSTEM (DR Site)**

Description of Items	Manufacturer/Origin	Qty
Detection: Intelligent fire alarm / suppression control system & accessories	Kiddie/Notifier	1
Software Monitoring: Precise Vision Intelligent Graphic Monitoring Software	Kiddie/Notifier	1
Suppression: Fire suppression NOVEC1230 clean agent and accessories	3M	1
Installation: Installation, testing & commissioning of fire alarm and suppression system		1
VESDA		1

#### **CABLING (DR Site)**

Description of Items	Manufacturer/Origin	Qty
2.5mm, 3Core H07RNF for AC control	Top Cable Sweden	75
4 mm 3 core	Top Cable Sweden	50
10mm, 5 Core H07RNF for AC and UPS	Top Cable Sweden	50
95 mm,5 core H07RNF for Gen set	Top Cable Sweden	100
70 mm single core for Grounding	Top Cable Sweden	100
Galvanized Cable tray	Wibe	100
Earthling Bus Bars		2

#### **HVAC COOLING SYSTEM (DR Site)**

Description of Items	Manufacturer/Origin	Qty
Stulz Minispace 151 15 KW N+1	Stulz, Germany	2
with matching air cooled condenser N+1 configuration		

Supply of Network Monitoring System WIB8000 in a separate steel box, compatible with above Stulz equipment	Stulz, Germany	1
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### **RACKS (DR Site)**

Description of Items	Manufacturer/Origin	Qty
APC 42 U Rack	APC, By Schneider Electric	5
APC Rack PDU AP7553	APC, By Schneider Electric	10

### **FLOORING (DR Site)**

Description of Items	Manufacturer/Origin	Qty
ISO Raised Flooring NEBS 0	Bergvik, Sweden	450
500 mm Height, 600x600 Aluminum Back Tiles		
Pedestal, Primary & Secondary Stringer Bars		
UDL: 15KN/Square Meter		
Laying, Fitting & Fixing		1

### **NETWORK INFRASTRUCTURE EQUIPMENT (DR Site)**

Description of Items	Manufacturer/Origin	Qty
Cisco 2901 w/2 GE 4 EHWIC 2 DSP 256MB CF 512MB DRAM IP Base	<b>CISCO2901/K9</b>	2
SMARTNET 8X5XNBD Cisco 2901	CON-SNT-2901	2
Cisco 2901-2921 IOS UNIVERSAL	S29UK9-15204M	2
2-Port 3rd Gen Multiflex Trunk Voice/WAN Int. Card - T1/E1	VWIC3-2MFT-T1/E1	2
Cisco 2901 AC Power Supply	PWR-2901-AC	2
AC Power Cord (UK) C13 BS 1363 2.5m	CAB-ACU	2
Insert Packout - PI-MSE	PI-MSE-PRMO-INSRT	2
IP Base License for Cisco 2901-2951	SL-29-IPB-K9	2
Cisco Config Pro Express on Router Flash	ISR-CCP-EXP	2
512MB DRAM for Cisco 2901-2921 ISR (Default)	MEM-2900-512MB-DEF	2
256MB Compact Flash for Cisco 1900 2900 3900 ISR	MEM-CF-256MB	2
Nexus 5596UP 2RU Chassis 2PS 4 Fans 48 Fixed 10GE Ports	<b>N5K-C5596UP-FA</b>	2
SMARTNET 8X5XNBD Nexus 5596UP 2RU Chassis 2PS 4 Fans	CON-SNT-5596UP	2
Nexus 5596 Chassis Accessory Kit	N5596-ACC-KIT	2
Layer 3 Base License for Nexus 5500 Platform	N55-BAS1K9	2
Nexus 5500 Module Blank Cover	N55-M-BLNK	4
Nexus 5500 PS 1100W Front to Back Airflow	N55-PAC-1100W	4
Nexus 5596 Layer 3 Expansion Module	N55-M160L3	2

Layer 3 License for Nexus 5500 Platform	N55-LAN1K9	2
Nexus 5000 Base OS Software Rel 5.1(3)N1(1)	N5KUK9-513N1.1	2
Power Cord 250VAC 10A BS1363 Plug (13 A fuse) UK	CAB-9K10A-UK	4
Nexus 5596UP Fan Module	N5596UP-FAN	8
1000BASE-T SFP	<b>GLC-T=</b>	4
10GBASE-SR SFP Module	<b>SFP-10G-SR=</b>	6

#### **FIRE WALL (DR Site)**

Description of Items	Manufacturer/Origin	Qty
1 Years 5X8 Comprehensive Multi--Year Bundle: 8 SFP+ FortiASIC 10--Gig ports (2 SFP+ SR--type transceivers included) , 10 SFP FortiASIC, 2 10/100/1000 ports, 4 FSM Slots, 1 FSM--064 with 64GB SSD storage, and dual AC power supplies --24x7 Bundle Renewals & Support -- 1 years		1
Transceiver Base--T (Copper) module for all FortiGate models with SFP interfaces, supports 10/100/1000 operation with RJ45 connector		2
Transceiver LX		2

#### **GENERATOR (DR Site)**

Description of Items	Manufacturer/Origin	Qty
Diesel Generator set rating 80KVA		1
Perkins engine		
LEROY SOMER ALTERNATOR		

#### **VIDEO SURVEILLANCE SYSTEM (DR Site)**

Description of Items	Part No.	Qty
Sarix™ IM-V Network Fixed Vandal Resistant Mini dome Camera Standard Definition Day Night Vari-focal Lens 2.8-10mm Light Gray Clear dome With Liner for False Ceiling	IMS0DN10-1V	2
Network Video Recorder 3TB US Power Cord	DSSRV-030-US	1
Installation, Configuration & Commissioning for above system	CNS Engineering	1
		Total

#### **ACCESS CARD CONTROL SYSTEM (DR Site)**

Description of Items	Part No.	Qty
Schneider Electric Continuum Access controller for 4 doors	ACX-5740	Nos
Schneider Electric Continuum Power Supply for ACX	CX99	Nos
Iclass RFID Readers for entry and Exit	R10	Nos
iclass 16k -26bit wiegand Access Cards (Pack of 100)	6541554100	Box
Single User Cyberstation software with one web clients	SU-SEC-P-WC1PRO-USB	Nos
ACCESS EVENTS PLUS	ACCESS EVENTS PLUS	Nos
		Total

**BUILDING CONTROL SYSTEM (DR Site)**

Description of Items	Part No.	Qty
Netbotz Rack Monitor 450(with 120/240V power supply)	NBRK0450	1
Netbotz Rack Sensor Pod 150	NBPD0150	1
Temp/Humidity Sensor	AP9335TH	4
Netbotz Camera Pod 160	NBPD0160	2
USB repeater Cables	NBAC0209L	2
Netbotz Door Switch Sensor DC door	NBES0302	1
APC 24 port Ethernet 10/100 switch	AP9224110	1
APC Category 5 UTP 568B Patch Cable Grey RJ45/RJ45	3827GY-10	2
APC Category 5 UTP 568B Patch Cable Grey RJ45/RJ45	3827GY-30	2
ISX Central Basic	AP9465	1
1 year Infrastructure central basic software support contract	WMS1YRSTD	1
Installation and configuration charges	JOB	1

Sr. #	Description of Items	Manufacturer	Part No.	Qty	Unit
	<b>Servers</b>				
1	Dell(TM) PowerEdge(TM) M1000e Modular Blade Enclosure, 10U Chassis, Media Tray for External Optical Drive, Chassis Enclosure for Modular Blade Server, with integration of Fan, Jumper Cord 250V,16A,0.6M,C19/C20 (Including 3 qty) x2, CMC Extended Storage Card, Redundant Power Supplies (6x 3000W) High Efficiency, M1000e Blade Chassis, Redundant: PowerConnect(TM) M8024-k Switch Module, 24x10GbE Ports, Redundant: PowerConnect(TM) M8024-k Switch Module, 24x10GbE Ports, Avocent(R) Integrated KVM Switch Module, Dell(TM) OpenManage(TM) Software Kit for PowerEdge(TM) M1000e, 3Yr ProSupport & Mission Critical,	DELL EMC	Dell(TM) PowerEdge(TM) M1000e	1	No
	PowerEdge M630 Blade Server, PowerEdge M630 Motherboard MLK, Intel Xeon E5-2680 v4 2.4GHz,35M Cache,9.60GT/s QPI,Turbo,HT,14C/28T (120W), Intel Xeon E5-2680 v4 2.4GHz,35M Cache,9.60GT/s QPI,Turbo,HT,14C/28T (120W), Regulatory Label for PowerEdge(TM) M630, 16GB RDIMM, 2400MT/s, Dual Rank, x8 Data Widthx16, iDRAC8 Enterprise, integrated Dell Remote Access Controller, Enterprise, 600GB 15K RPM SAS 12Gbps 2.5in Hot-plug Hard Drivex2, 2.5" Backplane with up to 2 Hard Drives and PERC RAID Controller, QLogic 57810-k Dual port 10Gb	DELL EMC	PowerEdge M630 Blade Server,	4	Nos

	KR CNA Blade Network Daughter Card, QLogic 57810-k Dual port 10Gb KR CNA Mezz Card for M-Series Blades, 3Yr ProSupport & Mission Critical				
	Redundant: PowerConnect(TM) M8024-k Switch Module, 24x10GbE Ports, Dell Networking, Transceiver, SFP, 1000BASE-SX, 850nm Wavelength, 550m Reach x 4, Serial I/O Management Cable for M6220 console, 4-Port SFP+ 10GbE Module (no SFPs included), 3Yr ProSupport & Mission Critical		Redundant: PowerConnect(TM) M8024-	4	Nos
	<b>STORAGE FOR PRIMARY SITE</b>				
	VNXE1600 ;2XSP DPE;25X2.5, NO SFP, TWIN	DELL EMC	VNX16K-B25	1	Nos
	VNXE1600 INSTALL KIT FOR 25 DRIVE DPE	DELL EMC	VNX16K-EMCKIT25	1	Nos
	VNXE1600 2.5 SYSTEM PACK 6X 600GB 10K	DELL EMC	V5-SP-S6X600-10K	1	Nos
	10GB SFP QTY 4 FOR ISCSI CONNECTION	DELL EMC	VNX16K-10GSFP	1	Nos
	4 PORT 1GBE IO MODULE	DELL EMC	VNX16K-1GB-IO	2	Nos
	2U DAE WITH 25 X 2.5 INCH DRIVE SLOTS	DELL EMC	VNX16K-DAE-25	2	Nos
	2 C13 PWRCRD W/ BSI 1363 PLUGS 250V 10A	DELL EMC	VNX16K-PWR-5	3	Nos
	VNXE1600 1.2TB 10K SAS 25X2.5	DELL EMC	V5-2S10-012	52	Nos
	BUNDLED FAST CACHE AND REPLICATION=IC	DELL EMC	VNX16K-UNI	1	Nos
	VNXE1600 BASE SW+OE DUAL SP ECOSYS =IC	DELL EMC	458-000-974	1	Nos
	<b>Storage FOR DR SITE</b>				
	VNXE1600 ;2XSP DPE;25X2.5, NO SFP, TWIN	DELL EMC	VNX16K-B25	1	Nos
	VNXE1600 INSTALL KIT FOR 25 DRIVE DPE	DELL EMC	VNX16K-EMCKIT25	1	Nos
	VNXE1600 1.2TB 10K SAS 25X2.5	DELL EMC	V5-2S10-012	52	Nos
	VNXE1600 2.5 SYSTEM PACK 6X 600GB 10K	DELL EMC	V5-SP-S6X600-10K	1	Nos
	2U DAE WITH 25 X 2.5 INCH DRIVE SLOTS	DELL EMC	VNX16K-DAE-25	2	Nos
	2 C13 PWRCRD W/ BSI 1363 PLUGS 250V 10A	DELL EMC	VNX16K-PWR-5	3	Nos



	10GB SFP QTY 4 FOR ISCSI CONNECTION	DELL EMC	VNX16K-10GSFP	1	Nos
	4 PORT 1GBE IO MODULE	DELL EMC	VNX16K-1GB-IO	2	Nos
	BUNDLED FAST CACHE AND REPLICATION=IC	DELL EMC	VNX16K-UNI	1	Nos
	VNxE1600 BASE SW+OE DUAL SP ECOSYS =IC	DELL EMC	458-000-974	1	Nos
	<b>Fire wall UTM</b>	<b>FORTINET</b>	FG1500DBDL	<b>1</b>	Nos

	Networking Fiber connectivity Site (Redundant) 28 Sites			28	Nos.
	Fiber Redundant Network of existing infrastructure at Civil Secretariat and Attached Department			15 sites	
	Catalyst 2960C Switch 8 FE PoE, 2 x Dual Uplink, Lan Base	CISCO	WS-C2960C-8PC-L	30	Nos
	SNTC-8X5XNBD Catalyst 2960C Switch 8 FE PoE, 2 x Dual	CISCO	CON-SNT-C296C8PC	30	Nos
	AC Power Cord (UK), C13, BS 1363, 2.5m	CISCO	CAB-ACU	30	Nos
	Power Retainer Clip For 3560-C, 2960-C and 2960-L Switches	CISCO	PWR-CLP	30	Nos
	19in RackMount for Catalyst 3560,2960,ME-3400 Compact Switch	CISCO	RCKMNT-19-CMPCT=	30	Nos
	1000BASE-LX/LH SFP transceiver module, MMF/SMF, 1310nm, DOM	CISCO	GLC-LH-SMD=	60	Nos
	Cisco 5508 Series Wireless Controller for High Availability	CISCO	AIR-CT5508-HA-K9	1	Nos
	SNTC-8X5XNBD Cisco 5508 Series Wi	CISCO	CON-SNT-CT5508HA	1	Nos
	Base Software License	CISCO	LIC-CT5508-BASE	1	Nos
	SWSS UPGRADES Base Software Licens	CISCO	CON-ECMU-LICCT8BAS	1	Nos
	Cisco Unified Wireless Controller SW Release 8.0	CISCO	SWC5500K9-80	1	Nos
	AIR Line Cord United Kingdom	CISCO	AIR-PWR-CORD-UK		Nos
	Cisco 5500 Series Wireless Controller Redundant Power Supply	CISCO	AIR-PWR-5500-AC	1	Nos
	Primary SKU for all upgrade options on the Cisco 5508 WC	CISCO	LIC-CT5508-UPG	1	Nos
	SWSS UPGRADES Primary SKU for all upgrade options on t	CISCO	CON-ECMU-LCTUPG		Nos
	100 AP Adder License for the 5508 Controller	CISCO	LIC-CT5508-100A	1	Nos
	SWSS UPGRADES 100 AP Adder License for the 5508 Contro	CISCO	CON-ECMU-LCT100A	1	Nos

	Top Level SKU For 9.x/10.x User License – eDelivery	CISCO	R-UCL-UCM-LIC-K9	1	Nos
	SWSS UPGRADES Top Level SKU For 9.	CISCO	CON-ECMU-RUCLUK9	1	Nos
	UC Manager-10.x Enhanced Single User License	CISCO	LIC-CUCM-10X-ENH-A	##	Nos
	SWSS UPGRADES UC Manager-10.x Enhanced Single User-Und	CISCO	CON-ECMU-LIC0ENHA	##	Nos
	CUCM Software Version 10.X	CISCO	CUCM-VERS-10.X	1	Nos
	UC Manager Enhanced 10.x License	CISCO	LIC-CUCM-10X-ENH	##	Nos
	Expressway Desktop Endpoint License	CISCO	LIC-EXP-DSK	##	Nos
	Expressway Series, Expressway-E PAK	CISCO	LIC-EXP-E-PAK	1	Nos
	License Key Software Encrypted	CISCO	LIC-SW-EXP-K9	4	Nos
	UCMPAK	CISCO	UCM-PAK	1	Nos
	Enable GW Feature (H323-SIP)	CISCO	LIC-EXP-GW		Nos
	Enable Expressway Series Feature Set	CISCO	LIC-EXP-SERIES	4	Nos
	Software Image for Expressway with Encryption, Version X8	CISCO	SW-EXP-8.X-K9	1	Nos
	Cisco Expressway-C Server, Virtual Edition	CISCO	EXPWY-VE-C-K9	2	Nos
	Prime Collaboration Standard 10.x	CISCO	PC-10X-STANDARD-K9	1	Nos
	Cisco Expressway-E Server, Virtual Edition	CISCO	EXPWY-VE-E-K9	2	Nos
	Enable Advanced Networking Option	CISCO	LIC-EXP-AN	2	Nos
	Enable Expressway-E Feature Set	CISCO	LIC-EXP-E	2	Nos
	Enable TURN Relay Option	CISCO	LIC-EXP-TURN	2	Nos
	Cisco IP Phone 8841	CISCO	CP-8841-K9=	30	Nos
	SNTC-8X5XNBD Cisco UC Phone 8841	CISCO	CON-SNT-CP8841K9	30	Nos
	802.11ac W2 AP w/CA; 4x4:3; Int Ant; 2xGbE G	CISCO	AIR-AP2802I-G-K9	30	Nos
	SNTC-8X5XNBD 802.11ac W2 AP w/CA;	CISCO	CON-SNT-AR2IIGK9	30	Nos
	Ceiling Grid Clip for Aironet APs - Recessed Mount (Default)	CISCO	AIR-AP-T-RAIL-R	30	Nos
	802.11n AP Low Profile Mounting Bracket (Default)	CISCO	AIR-AP-BRACKET-1	30	Nos
	Cisco Aironet 2800 Series CAPWAP Software Image	CISCO	SW2802-CAPWAP-K9	30	Nos
	Diesel Generator 80 KVA	Perkins Or Equivalent		1	Nos
	100 KVA AVR Stabilizer with Servo Motor			1	Nos

	APC Symmetra PX Power Module, 10/16kW, 400V	APC By Schneider	SYPM10K16H	1	Nos
	APC High-Performance Battery Module for 400V Symmetra PX 48/96/160KW & 208V Symmetra PX 100KW	APC By Schneider	SYBT9-B4	30	Nos

	<b>Hardware for Data Ware Housing / Business Intelligence</b>		<b>Part No.</b>	<b>Qty</b>	
	PowerEdge M630 Blade Server, PowerEdge M630 Motherboard MLK, Intel Xeon E5-2620 v4 2.1GHz,20M Cache,8.0GT/s QPI,Turbo,HT,8C/16T (85W) Max, Intel Xeon E5-2620 v4 2.1GHz,20M Cache,8.0GT/s QPI,Turbo,HT,8C/16T (85W) Max, 16GB RDIMM, 2400MT/s, Dual Rank, x8 Data Width X12, iDRAC8 Enterprise, integrated Dell Remote Access Controller, Enterprise, 1.2TB 10K RPM SAS 12Gbps 2.5in Hot-plug Hard Drive X 2, 2.5" Backplane with up to 2 Hard Drives and PERC RAID Controller, QLogic 57810-k Dual port 10Gb KR CNA Blade Network Daughter Card, QLogic 57810-k Dual port 10Gb KR CNA Mezz Card for M-Series Blades, 3Yr Pro Support & Mission Critical		<b>PowerEdge M630 Blade Server</b>	2	
	Storage				
	VNXE1600 ;2XSP DPE;25X2.5, NO SFP, TWIN		VNX16K-B25	1	
	VNXE1600 INSTALL KIT FOR 25 DRIVE DPE		VNX16K-EMCKIT25	1	
	2U DAE WITH 25 X 2.5 INCH DRIVE SLOTS		VNX16K-DAE-25	2	
	VNXE1600 2.5 SYSTEM PACK 6X 600GB 10K		V5-SP-S6X600-10K	1	
	2 C13 PWRCRD W/ BSI 1363 PLUGS 250V 10A		VNX16K-PWR-5	3	
	VNXE1600 1.2TB 10K SAS 25X2.5		V5-2S10-012	68	
	10GB SFP QTY 4 FOR ISCSI CONNECTION		VNX16K-10GSFP	1	
	4 PORT 1GBE IO MODULE		VNX16K-1GB-IO	2	
	BUNDLED FAST CACHE AND REPLICATION=IC		VNX16K-UNI	1	
	VNXE1600 BASE SW+OE DUAL SP ECOSYS =IC		458-000-974	1	

## ANNUXTURE M

### Audit for Data-Center Facility

#### 1.1. SCOPE OF SERVICES

1.2. Power Audit

1.3. Cooling Audit

1.4. Services delivery paths Audit

1.5. Site Location and site related Audit

1.6. CFD Analysis

#### 1.7. THERMOGRAPHIC INSPECTION

#### 1.8. PUE AUDIT

1.9. Monitoring and BMS AUDIT

1.10. Project timeline

1.11. Audit report

1.12. Audit for Datacenter Network & Security