

Request for Bids

Goods

(One-Envelope Bidding Process)

Addendum

Country: Pakistan

Name of Project: Punjab Human Capital Investment Project (PHCIP)

Contract Title: Procurement of Data Center Infrastructure (Servers, Storages, Tape Backups, Operating Systems, Virtualization, NMS), Networking and Data Center Colocation Solutions

Loan No./Credit No.: 6548-PK

RFB Reference No.: *PK-PSPA-445861-GO-RFB*

1. Reference advertisement published in the Newspapers Daily "The Nation" & "Express" on 14th September, 2024. In order to provide more time to the bidders as per their requests received to PHCIP-PSPA, the deadline for submission of bids has been extended as follows:

Submission date and time : 30th October, 2024 at 03:00 PM.

Opening date and time : 30th October, 2024 at 03:00 PM.

2. The bidding document, Addendum-1 & Minutes of Pre-bid meeting may be downloaded from the website: <https://pspa.punjab.gov.pk/node/337>.

Project Director

Project Management Unit – PMU

Punjab Human Capital Investment Project (PHCIP)

Punjab Social Protection Authority (PSPA)

Planning & Development Board

IPL-9528

78-79, New Muslim Town, Wahdat Road, Lahore

Tel: +92-042-99232359-60

Electronic mail address: adproc.phcip@pspa.punjab.gov.pk

Punjab Human Capital Investment Project (PHCIP)
Punjab Social Protection Authority (PSPA)
Government of Punjab
78-79, New Muslim Town, Wahdat Road, Lahore

No. PK-PSPA-445861-GO-RFB

09th October, 2024

Subject: MINUTES OF PRE-BID MEETING – PROCUREMENT OF DATA CENTER INFRASTRUCTURE (SERVERS, STORAGES, TAPE BACKUPS, OPERATING SYSTEMS, VIRTUALIZATION, NMS), NETWORKING AND DATA CENTER COLOCATION SOLUTIONS

Reference subject cited above.

2. PHCIP-PSPA invited Bids for Procurement of Data Center Infrastructure (Servers, Storages, Tape Backups, Operating Systems, Virtualization, NMS), Networking and Data Center Colocation Solutions. A Specific Procurement Notice (SPN) was published on 14th September, 2024 in the combined edition of Newspapers namely, daily “Express” and “Nation” and also posted on the website of PSPA in accordance with Procurement Regulations for IPF Borrowers -” July 2016 (Revised November 2017 & August 2018).

3. As pre-fixed in the Specific Procurement Notice (SPN), a Pre-Bid meeting was held on 25th September, 2024 at 1130 hours, to answer the clarifications on the RFB document and technical specifications to the prospective bidders. The members of the Technical Committee and the representatives of the bidders attended the meeting.

Proceedings of Meeting:

4. Additional Director (IT Infrastructure) explained in detail the technical specifications regarding Procurement of Data Center Infrastructure (Servers, Storages, Tape Backups, Operating Systems, Virtualization, NMS), Networking and Data Center Colocation Solutions.

5. The representatives of the bidders sought certain clarifications which were addressed by the technical & procurement team of PHCIP and responded hereunder: -

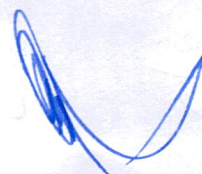
Technical Clarifications/Feedback		
Sr.	Bidder’s Clarifications	Response by PHCIP-PSPA
1	The goods (Data Centre Infrastructure) should be delivered within 12 weeks, and complete installation, testing, and deployment should be done within 16 weeks from the contract's effectiveness. which is impossible on during current situation!	PHCIP already prepared this delivery plan as per market condition, therefore, no change is going to made in the delivery period.
2	The supplier is responsible for transporting the goods to the designated locations (Primary and Secondary Data Centers) at their own cost, with all insurance and storage costs included in the contract price. Can you please confirm us the goods insurance cost responsibility by PSPA or bidder.	It is clearly mentioned in the RFB document that the supplier is responsible for transporting the goods to the designated locations (Primary and Secondary Data Centers) at their own cost, with all insurance and storage costs.

Rafiq J

Technical Clarifications/Feedback		
Sr.	Bidder's Clarifications	Response by PHCIP-PSPA
3	<ul style="list-style-type: none"> • Advance Payment: 10% of the contract price is payable within 30 days of contract signing, contingent on a bank guarantee. Change the advance 10% to 15%, if possible • Delivery/Inspection Payment: 40% of the hardware price is payable within 30 days of delivery and approval of the hardware/software. Change 40% payment to 60% on Hardware delivery, if possible • Installation and Testing: The remaining 50% of the hardware price is payable within 30 days upon successful installation, testing, and approval of the infrastructure. Again, change the 50% payment to 25% for installation. if possible 	Necessary amendments are made as per Addendum-1 attached with the minutes.
4	<ul style="list-style-type: none"> • Data Center Colocation and Operation & Maintenance: Payments for these services are made quarterly, within 30 days of claim submission and service approval. And also put the service Payment in Advance, if possible 	Payment of services will be made on quarterly basis; no payment will be made in advance for services.
5	Please share Service to Server Mapping.	These will be shared after contract award. Currently please just follow the specification and requirements
6	Are NVME SSDs required for servers?	Please comply the requirements as per the specifications mentioned in the RFB document
7	Please share the number of Hosts to be used as virtualized infrastructure.	The Servers naming with PR are for Primary DC and naming with DR are for DR Site. Hence 6 PR Servers will be hosting 13 VMs out of total 18 VMs.
	Total No of VMs planned to be deployed at PR and DR sites?	
8	Is OLVM or RHVM required?	Please comply the requirements as per provided specification in the RFB document
9	Can Data Domain be offered for backup of primary site?	The bidder can propose the solution as per the requirement of this RFB document
	Can Data Domain be offered for backup of DR site?	
10	Can we offer a virtual tape-based solution for backup?	No
11	Backup software quantity 10? Meaning 10 instances of servers/VMs/applications?	10 Instances of VMs
12	Is Connectivity b/w PR and DR required over the internet or dedicated media?	The connectivity should not be exposed to Public IP Cloud
13	Can ISCSI be offered instead of FC for storage networks?	No
14	1xGE Ports required in switches are electrical or optical ports?	Please follow the compatibility of Network Cards of Servers to connect with Switches
15	SFPs required for optical ports should be single-mode long range or multi-mode short range?	Multi-Mode SR

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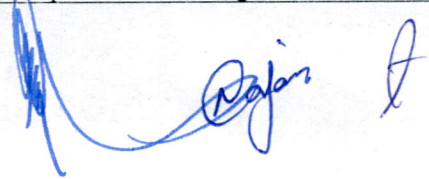


Technical Clarifications/Feedback		
Sr.	Bidder's Clarifications	Response by PHCIP-PSPA
16	What are the exact bandwidth requirements for both the primary and DR sites?	100 MBps CIR is the maximum requirements, with unit rate of per MB, but billing will be invoiced as per the actual utilization of each month
17	It is specified that the colocation sites must be Tier-3 or higher and provided by government organizations (e.g., PTCL or NTC). Can private data centers (non-government entities, Telcos and other enterprises) certified to Tier-3 standards also be considered?	Only Government based organizations such as PTCL, NTC etc. are allowed for Data Center Colocation (Primary & Secondary/DR Site)
	Data Center Colocation (Primary & Secondary/DR Site) to be provided on Tier 3 or higher data center through Government based organizations such as PTCL, NTC, etc. Primary site to be established in Lahore and Secondary/DR site preferably at a distance of 160 KM. Kindly allow and open the competition to non-government-based organizations (Mobilink / Jazz, Zong etc.) as well. because this clause favors the PTCL who is also the Infrastructure Solution and Services Provider.	
18	Who will be responsible for validation of colocation infrastructure? Do we need prior go ahead from the customer?	Bidder is responsible for Colocation Infrastructure validation and required proofs, against which PSPA will provide its go ahead
19	Who will be responsible for providing workstations to contractor's personnel?	Bidder
20	Can the bidder propose alternative/different payment terms other than the ones offered in the RFB document.	The bidder cannot propose alternative/different payment terms other than the RFB document.
21	Can the bidder quote and invoice in US Dollars.	No, it is a national procurement process, therefore, the bidder only quotes and invoice in PKR.
	The Bidder is required to quote in the currency of the Purchaser's Country the portion of the Bid price that corresponds to expenditures incurred in that currency. Does it mean that bidder is allowed to quote in the \$ for the portion of bid price that corresponds to expenditures incurred for imported items? And the price for Related Services can be offered in local currency?	
22	What are the payment terms for backup inventory provided since those are GST items?	There are no separate payment terms for backup inventory, this cost needs to be covered in the equipment cost.
23	Can the BG (Performance Security) be entertained with a diminishing (reduced value) for each year according to the year of the contract?	No, the Performance Security amount will remain the same through the period of contract.
24	The RFB mentions next business day resolution and on-site support, but are there penalties tied	Liquidated damages will be applicable on late resolution of warranty terms and conditions as mentioned in the contract SC 28.3, 28.5 & 28.6.

Rafiq

Technical Clarifications/Feedback		
Sr.	Bidder's Clarifications	Response by PHCIP-PSPA
	to SLA breach beyond the liquidated damages for delays?	
25	For the training of PSPA staff, are there specific certifications or skill sets that the provider must focus on? Is there any specific certification required leading from the provided trainings?	All kinds of training & certifications for PSPA staff will be decided after finalization of OEM which also include all kinds of Trainings, Materials and Exam fees.
26	How many staff members are expected to be trained?	07 Persons
27	Is the training expected to be online or in classrooms?	Class Room or online
28	Are these training expected to be delivered by the OEM directly?	Yes
29	Is there any cost of bidding document? Is it necessary to get the bidding document from the PSPA office through written application.	No cost needs to be paid for the purchase of RFB document, the bidder can also download the document from the website: https://pspa.punjab.gov.pk/node/337
30	Bid security required in shape of pay order / demand draft. Kindly allow the bidders to submit bid security in shape of bank guarantee.	Bid Security is required in shape of pay order / demand draft only.
31	If the project is turnkey solution? Further Joint Venture is allowed?	Maximum three (03) JV members are allowed as per Bid Data Sheet, ITB 4.1 of RFB document.
32	Please clarify the details required for Section (i) and section (iii) O&M sub-Plan.	<p>i) Testing and QA Plan Bidder needs to provide the Provisional Acceptance and Final Acceptance criteria subject to approval by purchaser before contract award.</p> <p>ii) PIP and LLD High Level PIP indicating the Major Milestones along with HLD document require to submit with bid, however detailed PIP and LLD are required to submit after 04 weeks of successful bid announcement.</p> <p>iii) O&M Plan O&M plan to ensure SLA, including but not limited to Escalation Matrix, 1st Level and 2nd Level Support methodology, Trouble ticketing and Customer Support, Spare Management and Hosting Services, support for Data Center Services. A separate SLA will be needed to submit for Hosting Services after the contract</p>
33	The primary site can be anywhere in Punjab? And 2nd/DR site, at least 160 KM away from primary site?	Yes
34	The prices quoted by the Bidder shall not be subject to adjustment during the performance of the Contract. Any change in price due to increase / decrease of taxes in relates services will be adjusted or not?	Only, indirect taxes will be adjusted

Technical Clarifications/Feedback		
Sr.	Bidder's Clarifications	Response by PHCIP-PSPA
35	Please clarify the scope of after sales services required?	The Bidder through OEM will be (if awarded the Contract) to carry out the maintenance, repair and spare parts-stocking obligations for the period of three years operation and maintenance.
36	Bid Security in shape of bank guarantee is requested to be allowed.	Bid Security is required in shape of pay order / demand draft only.
37	(b) Specific Experience: The Bidder must have experience in successfully and substantially completing, prior to bid submission, the design, execution, testing, and deployment of three (03) contracts of data centers in last five (05) years and at least one (01) of these contracts shall be deployment of a tier-3 data center. Kindly change the required specific experience duration to last 10 years instead of last 5 years.	Necessary amendments are made as per Addendum-1 attached with the minutes.
38	Documentary Evidence: The Bidder must submit the ISO 9001 and ISO 27001 Certifications or Equivalent. The following documents from the co-location service provider company or bidder are requested to be acceptable by purchaser.	The bidder can provide ISO 9001 and ISO 27001 Certifications or Equivalent from Colocation Service Provider.
39	Documentary Evidence: The Bidder also submit the CVs of certified and experienced professionals (Bachelor/Master Degrees (BS/BE) for Technical Team proposed for the role) as per the detail provided for the O&M, installation & configuration of co-located (PR&DR) data centers: ii. Facility Preparation Experts (Raised flooring, cooling, fire extinguisher), (01 each) (Total 03) iii. Civil Works Expert (01) Since the scope of related services (colocation) by other company, kindly accept the mentioned CVs of certified and experienced professionals of that company or bidder.	CVs from the Colocation provider will be required with commitment about the providing support and SLA as per TOR and T&C of this RFB document
40	Each Server is dual socket and requires virtualization (Oracle KVM) or VMW. Oracle Linux Virtualization Manager (OLVM) with premium support should be set to 13 (covering Virtualization Manager).	11 KVM/VMWare, 01 OLVM/VCenter
41	Confirm if there any bare metal Linux deployment or all Linux OS would be installed Virtual Machines would be installed on KVM/VMW?	All Linux OS would be installed on Virtual Machines KVM/VMware based.
42	Tape Backup Solutions (each for Primary & DR Site), quantity is mentioned as 2. Clarify if this is 1 for each or 2 for each site.	1 for each
43	Kindly confirm if Virtual Copy means snapshots in Storage	Virtual Copy and Snapshot are generally considered the same concept.



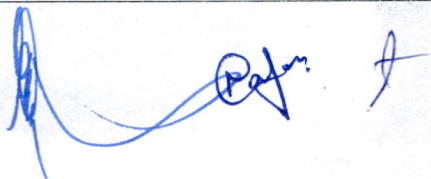
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Technical Clarifications/Feedback		
Sr.	Bidder's Clarifications	Response by PHCIP-PSPA
		Virtual Copy is a general term referring to a digital copy of a file or data that exists virtually, without a physical manifestation. Snapshot is a specific type of virtual copy that captures a system's state at a particular point in time. It's a read-only copy of a volume or file system.
44	Main Quantity table mentioned Non-RMAN to be 10. Whereas the specification section says it to be 20 VMs or higher. Kindly clarify exactly what quantity is required in case of VM bases Licenses. Under Capacity based licensing (Veritas), VM count is irrelevant. For VM based licensing (Veeam) Data is irrelevant (unless NAS option).	Please refer quantities in BoQ only, and it is 10 for VMs based licenses
45	SAN Storage (Each for Primary Backup) on Page 86, should be clarified. Is it required on Primary site or both. Veeam does not directly copy from server to Tape. It archives backup from disk-based device to Tape. Kindly add a backup device for DR as well.	This item is not for DR site and will be utilized for additional capacity.
46	Backup device for Primary storage (Page 86) mentions raw capacity to be 50TB. Whereas disk formation (7 x 3.84T) mentioned has nearly 27TB raw. Kindly clarify. It is advised to add a second backup device for DR if not already present and consider additional capacity since primary storage is double of it. SAN Storage System (each for Primary Backup) 06. Disk Components: 07x3.84TB SSD SAS Disk Unit Contradiction with Serial no.02, please help to clarify	Please consider 3 rd SAN Storage separate as it is for additional capacity.
47	Change or allow Tape Library to be 3U and modify iSCSI, FC and SAS to iSCSI or FC or SAS. Since Tape drive is to be connected via single interface. Also mention if a separate backup server is required for Tape connectivity via FC/SAS.	3U is allowed. Interface would be FC (must), however additional interface support is recommended (optional)
48	Who would provide Operating System licenses in case the backup software is windows based?	Bidder
49	Page 90 mentions trainings to include databases. There are no databases or database related licenses included in tender. Kindly clarify.	Bidder is responsible for training of components included in the bid
50	LTO-9 Ultrium Tape provides 18TB of uncompressed data capacity. Kindly clarify data cartridge requirements on both sites (60*10).	10 TB is minimum and just for reference only. Bidder can propose higher capacity but qty will remain 60 in that case too.

Refer to

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Technical Clarifications/Feedback		
Sr.	Bidder's Clarifications	Response by PHCIP-PSPA
51	Oracle does not provide separate training for KVM. It however provides training during consultation/deployment.	Bidder can opt for non-Oracle trainer in that case.
52	Network Core Switch: In core switch PSPA required 24x1/10GE SFP+ Ports, Please confirm 1GE or 10GE SPF+ which one is required for above ports.	24x10GE SFP+ ports are required. Please ignore the proofing error. Accordingly, amendment is made as per Addendum-1 attached with the minutes.
53	Network Core Switch: MDC, VPLS, VLL etc. are telco focused feature set. Which are normally not used in Public and Private sector. AS these features are highly supporting to one brand, so please open the RFB for all brands. So please remove from RFB.	A vendor can propose MDC equivalent feature with same features/requirements. All other features are very standard ones and supported by most Network Equipment Manufacturer
54	Tape Library: Tape Cartridges (LTO-9) 60*10 TB (Uncompressed Data) Please clarify the 60 x 10 TB Un Compressed data	Yes 60 Cartridges of 10TB Uncompressed data
55	SAN Storage: Controller: 4*16G FC Port each controller, Cards: 2*10/25G iSCSI each controller, Dual Controller, support Single controller and Dual Active controllers Please clarify PSPA Required FC base Dual Active-Active connectivity or iSCSI base Dual Active-Active	Since SAN switch is of FC switch connectivity, so it must be FC based but in future there must be provision for iSCSI based as well
56	NMS: Open-Source Platform to provide Monitoring capability of nodes/equipment/hardware/OSS proposed against the solution of this tender requirement. Open-Source mean required without Licenses Cost.	PSPA is asking for its 24x7 enterprise support from principle, even open source, so cost is Bidder discretion
57	Reference to the project of "Procurement of Data Center Infrastructure (Servers, Storages, Tape Backups, Operating Systems, Virtualization, NMS), Networking and Data Center Colocation Solutions" due to short submission timeline of the project it is requested kindly extend the tender submission date for 15 days.	The date for submission of bids has been extended upto 30 th October, 2024 at 03:00 PM. Accordingly, necessary amendments are made as per Addendum-1 attached with the minutes.
58	SAN Storage System (each for Primary and DR Site) 16. Self-encrypting drives (SEDS) : Render data useless to unauthorized users with drive-level encryption, even if the drive has been removed from the enclosure	16. Please follow the specification as per requirement.



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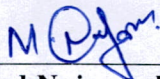
Technical Clarifications/Feedback		
Sr.	Bidder's Clarifications	Response by PHCIP-PSPA
	Please allow the array encryption, you will get the same functionality by allowing array encryption.	
59	<p>SAN Storage System (each for Primary Backup)</p> <p>16. Self-encrypting drives (SEDS): Render data useless to unauthorized users with drive-level encryption, even if the drive has been removed from the enclosure</p> <p>Please allow the array encryption, you will get the same functionality by allowing array encryption.</p>	

General Discussions: -

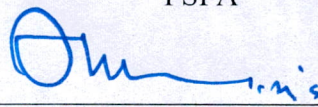
6. The following guiding principles were also discussed: -

- i) The person who would be submitting the bid should be properly authorized to do so and the power of attorney/authorization in this regard, be provided in the bid.
- ii) Bidders shall submit their bids in a secure binding form. Bids received in clip folders shall not be acceptable.
- iii) The documentation required in the Section II - Bid Data Sheet (BDS) & Section IV- Bidding Forms, ought to be complied very carefully.
- iv) All pages of the bids should be numbered, signed/initialed and stamped by an authorized representative.
- v) RFB document's Section I - Instructions to Bidders including Bid Data Sheet, must be read and understood carefully.
- vi) Most Advantageous Bidder (lowest evaluated bidder) will also provide e-Stamp Paper as per the value of contract at the time of signing of contract.

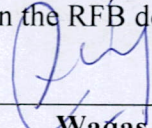
7. During the discussion, representatives of the bidders were also briefed with respect to the evaluation criteria and other eligibility requirements specified in the RFB document.



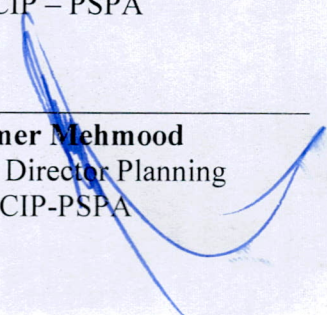
Muhammad Najam-ul-Bakhat
 General Manager (MIS)/SNA
 PSPA



Mr. Kashif Ali Zia
 Additional Director Procurement
 PHCIP-PSPA



Waqas Ayub
 Additional Director IT Infrastructure,
 PHCIP – PSPA



Mr. Umer Mehmood
 Additional Director Planning
 PHCIP-PSPA

Punjab Human Capital Investment Project (PHCIP)
Punjab Social Protection Authority (PSPA)
Government of Punjab
78-79, New Muslim Town, Wahdat Road, Lahore

No. PK- PK-PSPA-445861-GO-RFB

09th October, 2024

ADDENDUM-1

Subject: **REQUEST FOR BID (RFB) DOCUMENT – PROCUREMENT OF DATA CENTER INFRASTRUCTURE (SERVERS, STORAGES, TAPE BACKUPS, OPERATING SYSTEMS, VIRTUALIZATION, NMS), NETWORKING AND DATA CENTER COLOCATION SOLUTIONS**

A reference is made to the Specific Procurement Notice (SPN) was published on 14th September, 2024 in the combined edition of Newspapers namely, daily “Express” and “Nation” and also posted on the website of PSPA in accordance with Procurement Regulations for IPF Borrowers -” July 2016 (Revised November 2017 & August 2018). In the light of pre-bid meeting, the following amendment is made in the RFB document; in accordance with the provision of ITB 8.1 which will be construed as an integral part of the RFB Document and shall be communicated in writing to all who have obtained the bidding document from the Employer in accordance with ITB 6.3

2. The following description shall be added against each: -

Sr. #	RFB Reference	Description	Amendment of Description
1	Section II - Bid Data Sheet (BDS) ITB 11.1 (j)	The Bidder shall submit the following additional documents in its Bid: i. Testing and Quality Assurance Sub-Plan ii. Detailed Project Implementation Plan for each mile stone along with Low Level Design (LLD) must be submitted along with proposed solution. iii. O&M Sub-Plan	The Bidder shall submit the following additional documents in its Bid: i. Testing and Quality Assurance Sub-Plan ii. Detailed Project Implementation Plan for each mile stone along with High Level Design (HLD) must be submitted along with proposed solution. iii. O&M Sub-Plan
2	Section II - Bid Data Sheet (BDS) ITB 22.1 & ITB 25.1	The deadline for Bid submission is: Date: 14th October, 2024 Time: 03:00 PM The Bid opening shall take place at: Punjab Social Protection Authority, 78/79 New Muslim Town, Wahdat Road, Lahore Date: 14th October, 2024	The deadline for Bid submission is: Date: 30th October, 2024 Time: 03:00 PM The Bid opening shall take place at: Punjab Social Protection Authority, 78/79 New Muslim Town, Wahdat Road, Lahore Date: 30th October, 2024



		<i>Time: Immediately after the deadline for submission of Bids</i>	<i>Time: Immediately after the deadline for submission of Bids</i>
2	Section III - Evaluation and Qualification Criteria 3.1 Qualification Criteria (ITB 37.1) (b) Specific Experience	The Bidder must have experience in successfully and substantially completing, prior to bid submission, the design, execution, testing, and deployment of three (03) contracts of data centers in last five (05) years and at least one (01) of these contracts shall be deployment of a tier-3 data center. Each of the three (3) contracts shall be of at least PKR 325 million. However, if the contract of tier-3 data center is of value at least PKR 975 million, then the other two contracts will be acceptable even if they are of value below PKR 325 million. For a joint venture, this requirement must be met by the lead member.	The Bidder must have experience in successfully completing, prior to bid submission, the design, execution, testing, and deployment of three (03) contracts of data centers in last ten (10) years out of which at least one (01) contract shall be deployment of a tier-3 data center in last five (05) years. Each of the three (3) contracts shall be of at least PKR 300 million. However, if the contract of tier-3 data center is of value at least PKR 900 million, then the other two contracts will be acceptable even if they are of value below PKR 300 million. For a joint venture, this requirement must be met by the JV members collectively (3 data centers).
3	Section VII - Schedule of Requirements 3. Technical Specifications Network Core Switch	Number of ports: 24x1/10GE SFP+ Ports 24-Ports 1xGE Ports SFPs must be of the same OEM quoting brand that of Switch	Number of ports: 24x10GE SFP+ ports 24-Ports 1xGE Ports SFPs must be of the same OEM quoting brand that of Switch
4	Section IX - Special Conditions of Contract GCC 16.1	<p>Payment for Goods supplied: Payment shall be made in PKR, as follows:</p> <p>(i) Advance Payment: Ten (10) percent of the Contract Price of hardware shall be paid within thirty (30) days of signing of the Contract, and upon submission of claim and a bank guarantee for equivalent amount valid until the Goods are delivered and, in the form, provided in the bidding document or another form acceptable to the Purchaser.</p> <p>(ii) Delivery/Inspection of provided whole/complete hardware & software: Forty (40) percent of the Contract Price of hardware shall be paid within thirty days upon submission of claim of Delivery/Inspection and approval of provided whole/complete hardware & software.</p> <p>(iii) Installation, Testing & acceptance of</p>	<p>Payment for Goods supplied: Payment shall be made in PKR, as follows:</p> <p>(i) Advance Payment: Ten (10) percent of the Contract Price of hardware shall be paid within thirty (30) days of signing of the Contract, and upon submission of claim and a bank guarantee for equivalent amount valid until the Goods are delivered and, in the form, provided in the bidding document or another form acceptable to the Purchaser.</p> <p>(ii) Delivery/Inspection of provided whole/complete hardware & software: Fifty (50) percent of the Contract Price of hardware shall be paid within thirty days upon submission of claim of Delivery/Inspection and approval of provided whole/complete hardware & software.</p> <p>(iii) Installation, Testing & acceptance of</p>

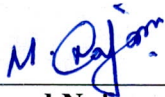


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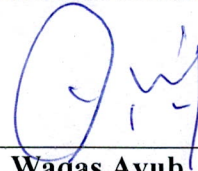
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		<p>whole/complete infrastructure (including provided hardware and software): Fifty (50) percent of the Contract Price of hardware shall be paid within thirty days upon submission of claim and Approval of successful Installation, Testing & acceptance of whole/complete infrastructure (including provided hardware and software).</p>	<p>whole/complete infrastructure (including provided hardware and software): Forty (40) percent of the Contract Price of hardware shall be paid within thirty days upon submission of claim and Approval of successful Installation, Testing & acceptance of whole/complete infrastructure (including provided hardware and software).</p>
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3. All other terms and conditions of the RFB document shall remain the same.



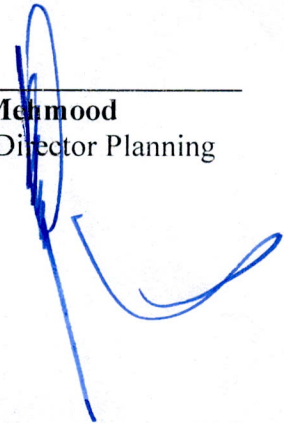
Muhammad Najam-ul-Bakhat
GM MIS/SNA



Waqas Ayub
Additional Director IT Infrastructure



Kashif Ali Zia
Additional Director Procurement



Umer Mehmood
Additional Director Planning