

PUNJAB SKILLS DEVELOPMENT FUND

Tender Document Provision of the Datacenter Solution with Complete Installation & Commissioning

March, 2019

Submission Date for Sealed Bids: April 01, 2019, by 11:00 AM

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Table of Contents 1-Invitation to Bids	Page 2
2-Instruction to Bidders	2
3-Conditions for Eligibility	2
4-Terms of Reference/Scope of Work	2
5-General or Special Conditions of Contract	3
6-Form of Contract	4
7-Form of Bid	4
8-Delivery Timelines	4
9-Completion Date	4
10-Performance Security	4
11-Technical Evaluation Criteria	4
12-Financial Evaluation Criteria	4
13-Submission of Bids (Technical and Financial Proposal): -	4
a. Bid Security	5
b. Cover Letter for the Submission of Technical Proposal	5
A cover letter as specified in Annex <i>I</i> shall be submitted with the proposal.	5
Annexes	6
Annex – A Organizational Information	6
Annex – B Eligibility Response Checklist	7
Annex – C Relevant Experience	8
Annex – D Technical Evaluation Criteria	9
Annex- E	10
Specification and Quantity of Datacentre Solution with Complete Installation & Commiss	sioning10
Annex-F Financial Proposal	16
Annex- G Declaration	21
Annex- H Cover Letter	22



1- Invitation to Bids

Punjab Skills Development Fund (PSDF) is a section 42, not-for-profit Company set up under the Companies Ordinance 1984 by the Government of the Punjab. Sealed bids/proposals will be invited from established firms/companies for - Provision of the Datacenter Solution with Complete Installation & Commissioning (hereafter called as bidders) to PSDF. All interested and eligible bidders are requested to go through the Tender document and provide relevant information along with supporting documents mentioned in this tender document.

2- Instruction to Bidders

The selection of Goods & Services will be based on Least Cost Selection Method through Single Stage Two Envelopes bidding procedure.

- a) The bid shall be a single package consisting of two separate envelopes, containing separately Technical and Financial proposals. The envelopes shall be marked as (**Provision of the Datacenter Solution with Complete Installation & Commissioning to PSDF)** "Technical Proposal" and "Financial Proposal"
- b) The bidders shall submit complete standard documentation appended as Annexes along with any specific documents required by PSDF.
- c) In the first instance, the "Technical Proposal" shall be opened and envelope marked as "Financial Proposal" shall be retained unopened in the custody of PSDF.
- d) PSDF shall evaluate Technical Proposal in a manner prescribed in the document, without reference to the price and condition shall be entitled to reject any proposal which does not conform to specified requirements. During the technical evaluation, no amendments in the Technical Proposal shall be permitted.
- e) After the evaluation and approval of technical proposals, PSDF shall open financial proposals of the technically accepted bids, publicly at a time, date and venue announced and communicated to the bidders in advance, within the bid validity period.
- f) The financial bids of the organizations found technically non-responsive shall be returned unopened to the respective bidders. The technical and financial proposal will be evaluated based on PSDF evaluation criteria as provided in this document.
- g) This document has different sections carrying information of eligibility, technical evaluation and terms of references, conditions of tender, type of contract etc. to assist potential contractors to develop their technical proposals.
- h) Financial bids will only be opened for bids that have been technically accepted at the predetermined time, venue and date communicated to the bidders.
- i) Minimum passing marks are 65, a bidder who shall obtain minimum 65 marks or more shall be marked as technically qualified and shall be considered for financial bid opening.
- j) The technical evaluation shall be done for a pass and fail purpose only and no weightage shall be given even, if the bidder scores 65 or more than 65 marks in the technical evaluation.
- k) A joint venture of any kind is not allowed to participate in the bid. (Please provide a declaration on letterhead)

3- Conditions for Eligibility

The successful bidder, fulfilling the following criteria, will be considered as an eligible bidder for the evaluation process;

- a) The Firm/Company must be regular tax-payer (Last year tax return, 17-18)
- b) Provide NTN, GST/PST details, if applicable. (Copy of Registration is required)
- c) Evidence of the firm/company's registration/incorporation is required. (Copy of certificate required)
- d) Must not be blacklisted by any government / bi-lateral/multi-lateral financial institution/any organizations (Declaration on stamp paper)
- e) Bidding Vendor must be Tier 1 Partner of the Principle and complete solution should be provided by a single principle.

Any, failure to provide information as per the above mentioned or fulfillment under the requirement of, "Eligibility Criteria Checklist" (Annex B) shall be deemed to be or declared ineligible for the bidding process and its technical evaluation will not be carried out.

Please mark/flag the supporting documents for Eligibility Criteria Checklist.

4- Terms of Reference/Scope of Work



- 1. Specification, Quantity, and scope of work is attached in Annex-E
- 2. PSDF IT department shall inspect and check the **Datacenter Solution with Complete Installation & Commissioning** supplied at the time of the delivery.
- 3. A visit and confirmation letter from the principle that all the execution is done by the vendor is inline and as per standards laid by the principal.
- 4. The bidder will submit complete specifications of required **Datacenter Solution with Complete Installation & Commissioning** with pictures and complete specification and compliance with items/specifications required (as per Annex E) in the technical proposal for approval of PSDF.
- 5. UAT and its signoff of complete infrastructure installed from PSDF IT department.
- 6. Training of Technical Staff on the Datacenter configurations, troubleshooting, and its Usage is mandatory.
- 7. Bidder will provide basic operations and troubleshooting document of the commissioned Solution.
- 8. The bidder may request time to visit the site at least 4 days before the deadline date of submission of bids for the estimation of passive work mentioned in Annex-E. Request for the site visit can only be made through email at procurement@psdf.org.pk, after submission of bids no site visit will be entertained.
- 9. The total quantity of items and passive work for **Datacenter Solution with Complete Installation & Commissioning** required mentioned in Annex-E, however, PSDF can increase or decrease the quantity or passive work of **Datacenter Solution with Complete Installation & Commissioning** at the time of signing the contract.
- 10. Compliance to the following SLA (signed and stamped on letterhead is required):
 - a. All parts replacement or issue rectification will be made within 24 hours of issue notification by PSDF. In case it exceeds 24 hours for rectification the vendor would give equivalent backup equipment.
 - b. It is mandatory for the bidding organization to keep all the items in their backup inventory for rectification within 24 hours of issue reporting.
 - c. Three years warranty backed by the principal of all parts and equipment deployed.
 - d. One-year replacement warranty for Battery Bank, Battery Banks should be checked, and the report will be shared with PSDF in every quarter.

5- General or Special Conditions of Contract

- a) PSDF reserves the right to award or not to award the contract and Bidders who fail to complete and attach all the relevant documents shall deem to be or declared to be ineligible.
- b) No tender document shall be accepted, if not properly sealed, marked, signed and stamped.
- c) Bidders to ensure that their bid documents are submitted before the closing time and date of the tender. Bids received after the closing time and date will NOT be accepted.
- d) All documents and information received by PSDF from applicants will be treated in strictest confidence. Documents submitted to PSDF will not be returned.
- e) All expenses related to participation in this bidding document shall be borne by the bidder.
- f) Documents shall be submitted in hard copies in a sealed envelope marked as "PROPOSAL" as a hard copy in a sealed envelope for "Provision of the Datacenter Solution with Complete Installation & Commissioning to PSDF." The envelope containing hard copies of the technical proposal and financial proposal shall be received on the postal address given below.

Procurement Department: -

Punjab Skills Development Fund, 21-A, H-Block, Dr. Mateen Fatima Road, Gulberg-II Lahore E-mail: <u>Procurement@psdf.org.pk</u> Phone: +92-42-35752408-10, Fax: +92-42-35752190.

- g) PSDF also reserves the right to verify any information provided by the applicants or may visit business premises to verify the information shared in tender documents.
- h) Bidder presenting information intentionally incorrectly or fraudulently will be disqualified.
- i) Questions about this technical proposal can be made only in writing: a letter or an e-mail and must be asked by or before 3 days of bid submission date. For any other related information please contact the undersigned.
- j) PSDF shall enter into a formal contract with the successful Bidder only and reserves the right to terminate the contract if the performance of Bidder is unsatisfactory.



*** Although adequate thought has been given in the drafting of this document, errors such as typos may occur without any responsibility on PSDF's part.

6- Form of Contract

- a) The successful bidder shall sign and execute the standard contract of PSDF including any general conditions on the terms and conditions specified therein. Any amendment to the standard contract shall be made with the mutual consent of both parties.
- b) The duration of the contract shall be three years, If PSDF chooses to cancel the contract during the contract period, a notice period of one month will apply.
- c) The successful company will sign a contract and shall provide the agreed services within the stipulated agreed time of issuance of the Purchase Order.
- d) The penalty shall be imposed on the successful bidder if he fails to deliver the goods on agreed terms & conditions mentioned in the bidding document and contract.
- e) In case of any dispute regarding goods/services, the decision of the PSDF shall be final & binding.
- f) The PSDF may reject all bids or proposals at any time prior to the acceptance of a bid or proposal. PSDF shall upon request communicate to any Firm/Company, the grounds for its rejection of all bids or proposals but shall not be required to justify those grounds.
- g) The PSDF undertakes to pay the valid and complete invoice based on the successful performance of the successful bidders within thirty (30) days after the delivery of goods.
- h) All taxes will be deducted in accordance with applicable laws.
- i) The bid shall remain valid for the period of **120 days** from the date of opening.

7- Form of Bid

The Bidders shall follow the Form of Bid specified in Annex F.

8- Delivery Timelines

Datacenter Solution with Complete Installation & Commissioning shall be provided within 6-8 weeks from the date of PO issuance.

9- Completion Date

Complete Installation & Commissioning within 2-3 weeks after delivery.

10- Performance Security

- a) The successful bidder will submit a performance guarantee (or any other form of performance security acceptable to PSDF) of 2% of contract value at the time of signing the contract which will be returned after completion of the contract.
- b) Any delay in delivery of Goods/Services or violation of SLA as per agreed time frame will be subject to a penalty of @1% per day, up to a maximum 10% of the total contract value.

11- Technical Evaluation Criteria

This document is governed by the procedure approved by PSDF management and PSDF, Procurement Rule, 2016. The technical proposal of eligible organizations will be evaluated against requirements specified in the in **"Annex** – D".

12- Financial Evaluation Criteria

The Financial Proposals of only eligible bidders with technically qualified specifications will be opened in the presence of all the bidders. All bids shall be opened publicly in the presence of bidders or their representatives who may choose to be present, at the time and place announced prior to the bidding and person designated for PSDF shall read aloud the unit price as well as the bid amount and shall record the minutes of the bid opening. All bidders shall sign an attendance sheet at the time of bid opening. Please provide information regarding Financials in Annex – F''.

13- Submission of Bids (Technical and Financial Proposal): -

A complete bid containing Technical and Financial proposal along with Bid Security, all required information and documentary evidence must be submitted before closing dated i.e.-April 01, 2019 at 11:00 AM-. Technical proposals will be publicly opened on the same day April 01, 2019, at 11:30 AM--in the presence of bidder's representatives who wish to attend it. Bid Security of disqualified bidders will be returned after awarding the business to the successful bidder.



a. Bid Security

Bid Security of Rs. 5,000 (Five Thousand) in the form of pay order or demand draft favoring Punjab Skills Development Fund shall be submitted along with the proposal. The Bid Security should be valid for a period not less than 6 months and must be enclosed with the financial bid.

b. Cover Letter for the Submission of Technical Proposal

A cover letter as specified in Annex / shall be submitted with the proposal.



Annexes

Annex – A Organizational Information

	Organization Information				
Sr. #	Required Information	Response			
1	Legal name of the organization				
2	Year of Registration / Establishment of the Organisation				
3	National Tax Number				
	General / Punjab Sales Tax Number				
5	What is the legal status of your organization? Tick the relevant box (one box only). (Attach Copy/Copies of Registration Certificate/s)	Public Sector OrganisationSection 42 CompanyPublic Ltd. CompanyPrivate Ltd. CompanyPrivate Partnership FirmOthers (Please specify)			
6	Name and designation of 'Head of Organization'				
7	Mobile: Phone/s: Email:				
	Fax: Address of organization: Website address:				
	Name and designation of 'Contact Person':				
	Phone/s:				
8	Mobile:				
	Email:				
	Fax:				



Annex – B Eligibility Response Checklist

	Eligibility Check List					
Sr. Eligibility Criteria Details No		Response/Elaboration/Proof Required	Attached Supporting Documents/Proof and mark Yes/No			
	I	I	Yes	No		
1	The Firm/Company must be regular tax-payer	(Last year tax return, 17-18)				
2	Provide NTN, GST/PST details, if applicable.	(Copy of Registration is required)				
3	Evidence of the firm/company's registration/incorporation is required.	(Copy of certificate required)				
4	Must not be blacklisted by any government / bi- lateral/multi-lateral financial institution/any organizations (Declaration on stamp paper)	(Declaration on stamp paper)				
5	Bidding Vendor must be Tier 1 Partner of the Principle and complete solution should be provided by a single principle.	Letter by the principal is required				



Annex – C Relevant Experience

	Relevant Experience					
Sr. #	Required Information	Response (Please provide exact information with organization name, location/s, and duration) Provide data in the sequence given below				
1	Name of Organizations with addresses	i. ii. iii. iv.				
2	Start and end dates of providing Goods/Services (For example – Jan 2009 to September 2017)	i. ii. iii. iv.				
3	Goods/Services provided to Number of firms/companies	i. ii. iii. iv.				



Annex – D Technical Evaluation Criteria

(.	Attachment of relevant evidence in each case is man	datory. Ir	a case of non-co	mpliance no mark will be awarded)
S. No.	Descriptions	Total Points	Categorized Points	Remarks
1	Client Portfolio (Past DataCenter Projects)	20		
	Worked with above 15 local/international/ Telecom/MNCs /government / semi government/autonomous bodies.		20	
		Worked with more than 10 but less than or equal to 15 locals/international/Telecom/MNCs / government/ semi government /autonomous bodies.		Documentary proof (copies of the contract or Purchase/Service Order of clients) should be furnished.
	Worked with 5 or more but less than or equal to a locals/international/Telecom/MNCs/ government government /autonomous bodies.		10	
2	Relevant Experience	20		
	Providing Datacenter Solution with Complete Inst	tallation	20	
	& Commissioning for more than 5 years			Documentary proof (copies of the contract or
	Providing Datacenter Solution with Complete Installation & Commissioning for more than 3 years but less than or		10	Purchase/Service Order) should be furnished.
3	equal to 5 years Financial Capability	20		
<u> </u>	Annual revenue/turnover of the company should greater than Rs. 150 million		20	Copy of last financial audit report done by ICAP/SBP registered auditing Firm/Company
	If annual revenue/turnover is less than or equal to 150 million but greater than 100 million	o Rs.	15	or tax return of last year
	If annual revenue/turnover is less than or equal R million but greater than 80 million	ks.100	10	
4	Workshop for Repair & Maintenance	15		
	Details of the workshop including repair & mainter in Lahore.	enance	15	Documentary details of the workshop including repair & maintenance service on
	Details of the workshop including repair & mainte anywhere in Pakistan.	enance	5	company letterhead
5	Principle Presence in Pakistan	10		Documentary details of the Principle
	Existence of Principle Presence in Pakistan		10	Presence in Pakistan on company letterhead
	Nonexistence of Principle Presence in Pakistan		0	
6	Certified Engineers in Relevant Area	15		
	More than or equal to 3 Certified engineers		15	Resumes and certificates of the certified
	2 Certified engineers		10	engineers is to be provided
	1 Certified engineer		5	
		100		

Note: Please mark/flag the supporting documents for Technical Evaluation Criteria.



Specification and Quantity of Datacentre Solution with Complete Installation & Commissioning

	Section - I BOQ	
A. BIL	L OF QUANTITY FOR 10KVA UPS	
S#	DESCRIPTION	Qty.
1	10KVA UPS Rack Tower convertible with Rail kits with power factor 1 for best power efficiency at output	2
2	NMC/SNMP/WEB Management Cards for connectivity and monitoring	2
3	External Battery Bank of the exactly same brand of UPS, Battery bank should be able to provide 60 mins backup for each UPS at 8KVA load	As per mentioned requirements
B. BIL	L OF QUANTITY FOR Complete Precision Cooling Solution	
S#	DESCRIPTION	Qty.
1	Indoor cooling unit with minimum of 7KW and maximum of 13KW solution is acceptable, InRow, Air Cooled, 220-240V, 50Hz, Multi- function LCD status and control console, Air Discharge vertically & Air flow with scroll type compressor with international standards approvals and certifications	1
2	Outdoor unit Compressor, with R410A, with variable speed fans to reduce energy consumption during off-peak cooling periods, integral fan/motor assembly to be factory balanced, lowers vibration & Condenser, 2 Fan, Single circuit with required size Isolation valve assemblies with international standards approvals and certifications	1
C. BIL	L OF QUANTITY FOR Racks for UPS and Battery Banks	
S#	DESCRIPTION	Qty.
1	42U, Deep Enclosure with Sides Black Racks should be compliant with the international standards and certifications	(as per requirements its design and dimensions must accommodate UPS and Battery Banks proposed above
D. BI	LL OF QUANTITY FOR Environmental Monitoring System	
S#	DESCRIPTION	Qty.
1	Rack Monitor Device, Network-based rack monitor, Temperature, water leakage, and Humidity.	1
2	Temperature Sensor for racks, with a feature to Customize each sensor with a differentiating name and location	2
3	Water Leak Sensor with at least 20ft length including its Interface Cable	1
4	Temperature & Humidity Sensor for DC room	1



S#	DESCRIPTION	Qty.
	Rack Automatic Transfer Switch, 20A/208V, 16A/230V, with	
1	Indications of the status of the AC sources powering the units, this	1
т	should provide a visual depiction of the power flow from the input	T
	to the load with 1U Size or less	
. BIL	L OF QUANTITY FOR DataCenter UPS Input, Output & Power DBs	
S#	DESCRIPTION	Qty.
1	Power DB	
	Incoming	
	63A 2 Pole MCB (cooling unit incoming) Equivalent to ABB,	1
	Schneider or Legrand	
	80A 2 pole (UPS Incoming) Equivalent to ABB, Schneider or Legrand	2
	Indication Lamp LED (L1, L2, L3) Equivalent to Local Good quality	3
	Volt & Amp meter Digital (L1, L2, L3) Equivalent to Local Good	1
	quality	
	Box type Open Equivalent to Local Good quality	1
2	UPS DB	
	Outgoing: UPS 1	
	50A 2 Pole MCB Equivalent to ABB, Schneider or Legrand	1
	32A Single Pole MCB Equivalent to ABB, Schneider or Legrand	4
	Indication Lamp LED Equivalent to Local Good quality	1
	Outgoing: UPS 2	
	50A 2 Pole MCB Equivalent to ABB, Schneider or Legrand	1
	32A Single Pole MCB Equivalent to ABB, Schneider or Legrand	4
	Indication Lamp LED Equivalent to Local Good quality	1
	Box type Open Equivalent to Local Good quality	1
	Outgoing: HVAC	
	32A 2 Pole MCB Equivalent to ABB, Schneider or Legrand	1
3	Industrial Sockets for DC Room	
	Equivalent to Clipsal or Legrand	4



Section - II Passive Work

The bidder will be responsible for the complete commission of above equipment with following passive work mentioned below.

S.	S.				
No.	Description	Unit			
1	Rigging, Lifting, Shifting and Installation of the cooling unit (indoor/outdoor) at a designated place including civil works.	Job			
2	Supply & installation of cable tray inside room Made out of 14 SWG High grade. (hanged from Ceiling with 5/8" rod etc). 150mm wide & 50 mm High Complete in all respect as per Specification	RFT			
3	Supply & installation of cable tray outside room from the equipment room to top floor Made out of 14 SWG High grade. 150mm wide & 50 mm High Complete in all respect as per Specification	RFT			
4	Scaffolding for Copper pipe laying	Job			
5	Supply & Installation of copper pipe (make Moeller USA or Better) Hard Type size-5/8" diameter with insulation, where necessary, trunking and supports complete in all respect	RFT			
6	Supply & Installation of copper pipe (make Moeller USA or Better) Hard Type size 1/2" diameter with insulation, where necessary, trunking and supports complete in all respect	RFT			
7	Supply & Installation of UPVC pipe for condensate drain size 1" diameter with insulation where necessary, trunking and supports complete in all respect	RFT			
8	Supply & Installation of PPRC pipe for humidifier size 1" diameter with trunking and supports complete in all respect	RFT			
9	Supply & Installation of Refrigerant gas R410A with circuits pressure testing, Vacuum, and charging.	RFT			
10	Supply & Installation of electrical power cable 4 core size 6mm2 between indoor to electrical panel with conduiting, laying & termination	RFT			
11	Supply & Installation of electrical control cable 3 core flexible 2.5mm2 between indoor to outdoor unit with conduiting, laying & termination	RFT			
12	Supply & Installation of electrical grounding cable single core 6mm2 with conduiting, laying & termination	RFT			
13	Testing, Configuration, Commissioning & Test Run of the entire infrastructure	dol			
14	Supply Installation and commissioning of Environment Monitoring Solution	Job			
15	Laying of power cable 25mm ² 5 Core Flexible Cable as per requirement (UPS incoming)	Rft			
16	Laying of power cable 16mm ² 3 Core Flexible Cable as per requirement (UPS outgoing)	Rft			
17	Installation of Industrial Socket as mentioned above	Job			

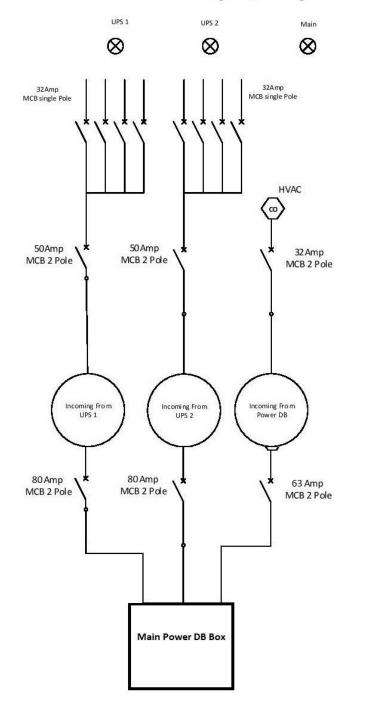


re22		
18	Power DB (For Input and Out of UPS and Cooling Units) for Above mentioned Electrical Equipment (According to SLD below)	Rft
19	Supply and Fixing of Anti-static tiles for DC Room	Rft
20	Removal of existing false ceiling in DC Room and installation of overhead cable trays and its laying.	Rft
21	Conduiting and Cables Ties of Power Cables	No's
22	Consultation, Design, Installation, Painting, Structural fixings, Commissioning, Configuration, Cabling Management, Tagging to the setup Datacenter with all miscellaneous material & labour etc	Job
23	A complete dismantling of any existing item/material including but not limited to cables/UPS/AC/Piping/False Ceiling/Paint/Door/Glass or anything within the premises etc.	dol
24	Installation of the Refrigerant liquid line Piping copper with fitting, elbow, reducer, Tee, aero flex insulation and PVC taping	Job

Important Note:

In case of any existing infrastructure is damaged appropriate replacement to be made by the Vendor.

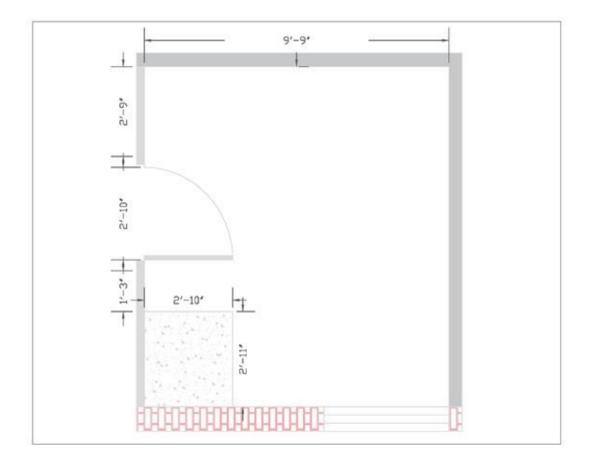




DataCenter UPS Input/Output & Power DBs Layout



Proposed Datacenter Layout:



Important Note

A) Installation of all Equipment including Passive Work

- A. Complete Installation, equipment movements and placements, and configurations of BOQ mentioned in Annex-E with complete passive work (including of every part or material that is required) shall be made by bidder no extra payment will be paid to the bidder.
- B. In case of any existing infrastructure is damaged appropriate replacement to be made by the vendor.
- C. After Completion of Complete project bidder should submit complete Electrical Layout Diagram with tagging.



Form of Bid/ Financial Proposal

Annex-F Financial Proposal

	Bill of Quantity				
Sr. No.	Description	Quantity	Unit Price without Applicabl e Taxes PKR	Applicable Taxes PKR	Total Price with Applicable Taxes PKR
1	10KVA UPS Rack Tower convertible with Rail kits with power factor 1 for best power efficiency at output mentioned in Annex E	2			
2	NMC/SNMP/WEB Management Cards for connectivity mentioned in Annex E	2			
3	External Battery Bank of the exactly same brand of UPS, Battery bank should be able to provide 60 mins backup for each UPS at 8KVA load mentioned in Annex E	As per mention ed require ments			
4	Indoor cooling unit with minimum of 7KW and maximum of 13KW solution is acceptable, InRow, Air Cooled, 220-240V, 50Hz, Multi- function LCD status and control console, Air Discharge vertically & Air flow with scroll type compressor with international standards approvals and certifications mentioned in Annex E	1			
5	Outdoor unit Compressor, with R410A, with variable speed fans to reduce energy consumption during off-peak cooling periods, integral fan/motor assembly to be factory balanced, lowers vibration & Condenser, 2 Fan, Single circuit with required size Isolation valve assemblies with international standards approvals and certifications mentioned in Annex E	1			
6	42U, Deep Enclosure with Sides Black Racks should be compliant with the international standards and certifications	(as per require ments) its design and dimensi ons			



ccess			1	
		must accomm odate UPS and Battery Banks propose d above		
7	Rack Monitor Device, Network-based rack monitor, Temperature, water leakage, and Humidity mentioned in Annex E	1		
8	Temperature Sensor for racks, with a feature to Customize each sensor with a differentiating name and location mentioned in Annex E	2		
9	Water Leak Sensor with at least 20ft length including its Interface Cable mentioned in Annex E	1		
10	Temperature & Humidity Sensor for DC room mentioned in Annex E	1		
11	Rack Automatic Transfer Switch, 20A/208V, 16A/230V, with Indications of the status of the AC sources powering the units, this should provide a visual depiction of the power flow from the input to the load with 1U Size or less mentioned in Annex E	1		
12	Power DB mentioned in Annex E			
	63A 2 Pole MCB (cooling unit incoming) Equivalent to ABB, Schneider or Legrand	1		
	80A 2 pole (UPS Incoming) Equivalent to ABB, Schneider or Legrand	2		
	Indication Lamp LED (L1, L2, L3) Equivalent to Local Good quality	3		
	Volt & Amp meter Digital (L1, L2, L3) Equivalent to Local Good quality	1		
	Box type Open Equivalent to Local Good quality	1		
13	UPS DB mentioned in Annex E			
	Outgoing: UPS 1			



.cess					
	50A 2 Pole MCB Equivalent to ABB, Schneider or Legrand	1			
	32A Single Pole MCB Equivalent to ABB, Schneider or Legrand	4			
	Indication Lamp LED Equivalent to Local Good quality	1			
	Outgoing: UPS 2				
	50A 2 Pole MCB Equivalent to ABB, Schneider or Legrand	1			
	32A Single Pole MCB Equivalent to ABB, Schneider or Legrand	4			
	Indication Lamp LED Equivalent to Local Good quality	1			
	Box type Open Equivalent to Local Good quality	1			
	Outgoing: HVAC				
	32A 2 Pole MCB Equivalent to ABB, Schneider or Legrand	1			
14	Industrial Sockets for DC Room mentioned in Annex E				
	Equivalent to Clipsal or Legrand	4			
	Total Cumulative Cost inclusive of all a	applicable	Taxes (P	KR)	

	Section - II - Passive Work					
Sr. No.	Description	Unit	Unit Price without Applicable Taxes PKR	Applicable Taxes PKR	Total Price with Applicable Taxes PKR	
1	Rigging, Lifting, Shifting and Installation of the cooling unit (indoor/outdoor) at a designated place. including civil works.	Job				
2	Supply & installation of cable tray inside room Made out of 14 SWG High grade. (hanged from Ceiling with 5/8" rod etc). 150mm wide & 50 mm High Complete in all respect as per Specification	RFT				
3	Supply & installation of cable tray outside room from the equipment room to top floor Made out of 14 SWG High grade. 150mm wide & 50 mm High Complete in all respect as per Specification	RFT				



ccess			1	
4	Scaffolding for Copper pipe laying	Job		
5	Supply & Installation of copper pipe (make Moeller USA or Better) Hard Type size- 5/8"diameter with insulation, where necessary, trunking and supports complete in all respect	RFT		
6	Supply & Installation of copper pipe (make Moeller USA or Better) Hard Type size 1/2"diameter with insulation, where necessary, trunking and supports complete in all respect	RFT		
7	Supply & Installation of UPVC pipe for condensate drain size 1" diameter with insulation where necessary, trunking and supports complete in all respect	RFT		
8	Supply & Installation of PPRC pipe for humidifier size 1" diameter with trunking and supports complete in all respect	RFT		
9	Supply & Installation of Refrigerant gas R410A with circuits pressure testing, Vacuum and charging.	RFT		
10	Supply & Installation of electrical power cable 4 core size 6mm2 between indoor to electrical panel with conduiting, laying & termination	RFT		
11	Supply & Installation of electrical control cable 3 core flexible 2.5mm2 between indoor to outdoor unit with conduiting, laying & termination	RFT		
12	Supply & Installation of electrical grounding cable single core 6mm2 with conduiting, laying & termination	RFT		
13	Testing, Configuration, Commissioning & Test Run of the entire infrastructure	dol		
14	Supply Installation and commissioning of Environment Monitoring Solution	dol		
15	Laying of power cable 25mm ² 5 Core Flexible Cable as per requirement (UPS incoming)	Rft		
16	Laying of power cable 16mm ² 3 Core Flexible Cable as per requirement (UPS outgoing)	Rft		
17	Industrial Socket as mentioned above	Job		
18	Power DB (For Input and Out of UPS and Cooling Units) for Above mentioned Electrical Equipment (According to SLD below)	Rft		
19	Supply and Fixing of Anti-static tiles for DC Room	Rft		



ccess			1	1	
20	Removal of existing false ceiling in DC Room and installation of overhead cable trays and its laying.	Rft			
21	Conduiting and Cables Ties of Power Cables	No's			
22	Consultation, Design, Installation, Painting, Structural fixings, Commissioning, Configuration, Cabling Management, Tagging to setup DataCenter with all miscellaneous material & labour etc	dol			
23	A complete dismantling of any existing item/material including but not limited to cables/UPS/AC/Piping/False Ceiling/Paint/Door/Glass etc.	Job			
24	Installation of the Refrigerant liquid line Piping copper with fitting, elbow, reducer, Tee, aero flex insulation and PVC taping	Job			
	Total Cumulative Cost inclusive of all applicable Taxes (PKR)				



Annex- G Declaration

Declaration

Kindly provide the declaration as per format provided below at the end of the proposal.

I, ______ hereby declare that:

- all the information provided in the technical proposal is correct in all manners and respects
- and I am duly authorised by the Governing body/Board/Management to submit this proposal on behalf of "[Click here and type the name of organization]"

Name	
Designation	
Signature	
Date and Place	



Annex- H Cover Letter

Cover Letter for the Submission of Technical Proposal

[Firm/Company letterhead]

[Date]

То

Chief Executive Officer

[Address mentioned in Guide lines]

Re: Technical Proposal in respect of [Insert title of assignment]

Dear Sir,

We offer to provide the Goods for [Provision of the Datacenter Solution with Complete Installation & Commissioning] in accordance with your Tender for Proposal dated [Insert Date of Tender advertised]. We hereby submit our technical Proposal including the required documents in a sealed envelope.

We assure that the solution provided does not contain any end of life or end of support item and completely complies with all the requirements mentioned in the SOW and Annex E. Our proposal may be rejected at any stage in case any item proposed is found to be falling under end of life or end of support by the principal on or before the date the submission of bid. In case any anomaly is found we can be disqualified in any stage of the evaluation.

Further, we hereby also declare that all the information and statements made in these proposals are true and accept that any misinterpretation contained therein may lead to our disqualification. Our proposal is binding upon us and subject to the modifications resulting from contract negotiations. We undertake that we will initiate the services as per the client's request if our proposal is accepted. We understand that you are not bound to accept any or all proposals you receive.

Thank you.

Yours sincerely,

Signature

Name and title of signatory: