



SECURITIES AND EXCHANGE COMMISSION OF PAKISTAN

No. T# 16/15-16

Invitation to Bid

The Securities and Exchange Commission of Pakistan (SECP), setup in pursuance of the Securities and Exchange Commission of Pakistan Act, 1997 is an apex regulatory authority mandated to regulate and supervise the Pakistani securities markets, corporate sector, insurance industry and non-banking financial sector etc.

The Securities & Exchange Commission of Pakistan invites sealed bids from suppliers registered with Income Tax and Sales Tax Departments for following:

S. No.	Requirements	Reference
a)	Purchase of Six (06) Servers	[T#16(i) /15-16]
b)	Consolidated Storage Solution for Head Office and DR Site with Complete Support and Warranty	[T#16(ii) /15-16]
c)	Replacement of EOL Firewall for DRC	[T#16(iii) /15-16]

Bidding documents containing detailed terms and conditions, method of procurement, procedure for submission of bids, bid security, bid validity, opening of bid, evaluation criteria, clarification/rejection of bids etc. against each of the above requirements are available for the interested bidders from the undersigned and can also be downloaded from www.secp.gov.pk/procurement.asp free of cost.

The bids prepared in accordance with the instructions in the bidding documents, must reach undersigned on or before **February 09, 2016 at 1500 Hrs** and will be opened on the same day at 1530Hrs.

M. Ubaidullah Khalid – Asst. Director (Admin)
4th Floor, NICL Building, 63 Jinnah Avenue, Islamabad
Tel: 9207091-4 Ext 444
Email: ubaidullah.khalid@secp.gov.pk

Terms and Conditions for Bids and Bidders

1. **Tender Identification Number:** **TENDER # 16(ii) / 15-16.**
2. The Securities and Exchange Commission of Pakistan (SECP), setup in pursuance of the Securities and Exchange Commission of Pakistan Act, 1997 is an apex regulatory authority mandated to regulate and supervise the Pakistani securities markets, corporate sector, insurance industry and non-banking financial sector etc.
3. The Securities and Exchange Commission of Pakistan invites sealed bids from the principal's authorized dealers/distributors/partners/resellers based in Pakistan and registered with sales tax department, having national tax number (NTN) for **"Consolidated Storage Solution for Head Office and DR Site with Complete Support and Warranty"** through **SINGLE STAGE TWO ENVELOP METHOD.**
4. **The Procurement Agency is:**

Securities and Exchange Commission of Pakistan
4th Floor, NICL Building, 63 Jinnah Avenue, Blue Area,
Islamabad.
5. Relevant details plus terms and conditions of the invitation may be obtained from the undersigned personally or by visiting the SECP website:
www.secp.gov.pk/procurement.asp
6. **Pre Bid Meeting:** In order to obtain full understanding of the TORs, a meeting of the bidders is scheduled on **February 01, 2016 at 1500 Hrs** at SECP Head Office. Those who wish to attend/ participate should inform the undersigned.
7. Clarification if any on the technical requirement may also be obtained by sending an email to ubaidullah.khalid@secp.gov.pk till **February 01, 2016** (before pre-bid meeting). **Clarification requests received after pre-bid meeting will not be entertained.**
8. The clarifications issued in respect of all queries (through email and during pre-bid meeting) will be uploaded on SECP Website by **February 02, 2016.**
9. Bid shall comprise a single package containing two separate envelopes. Each envelope shall contain separately the financial Bid and the technical Bid. The envelopes shall be clearly marked as **"FINANCIAL BID"** and **"TECHNICAL BID"** in bold and legible letters.
10. Initially, only the envelope marked **"TECHNICAL BID"** shall be opened publically. The envelope marked as **"FINANCIAL BID"** shall be retained.
11. After the evaluation and approval of the technical Bid, financial Bids of the technically accepted bids only will be opened at a time, date and venue announced and communicated to the Bidders in advance. Financial Bids of unsuccessful bidders (technically) will be returned.
12. The bid validity period shall be 150 days.

13. The amount of the bid and earnest money shall be in **Pak rupees**.
14. The bids should be accompanied by earnest money (refundable) for an amount equal to 2% of the total quoted price (inclusive GST, if applicable) in shape of either pay order, demand draft valid for not less than 6 months in favor of **Securities and Exchange Commission of Pakistan, 4th Floor, NICL Building, 63 Jinnah Avenue, Blue Area, Islamabad**.
15. The earnest money shall be submitted in a separate sealed envelope along with technical bid. Bids not accompanied by earnest money will not be entertained.
16. If the bid is withdrawn before the expiry of its validity or the supply/services are not made/provided within due date, the earnest money will be forfeited in favor of the SECP, Islamabad.
17. It is of utmost importance that bids should be submitted very carefully and the instructions set forth above, scrupulously complied with, failing which the offer will be rejected.
18. The language of the bid is English and alternative bids shall not be considered.
19. Amendments or alterations/cutting etc., in the bids must be attested in full by the person who has signed the bids.
20. The prices quoted shall correspond to 100% of the requirements specified. The prices quoted by the bidder shall not be adjustable. Changes or revisions in rates after the opening of the bids will not be entertained and may disqualify the original offer resulting in forfeiture of earnest money in favor of SECP.
21. The rates must be quoted strictly in accordance with our documents and Annex(s). In the event of non-acceptance of offer no intimation will be given to the individual bidder.
22. Discounts (if any) offered by the bidder shall be part of the bid.
23. In case applicable taxes have neither been included in the quoted price nor mentioned whether quoted amount is inclusive or exclusive of such taxes, then quoted amount shall be considered inclusive of all applicable taxes and selected bidder/service provider will have to provide the required services/equipment, if selected and declared as best evaluated bidder. In case selected bidder is not willing to supply on quoted amount then the earnest money submitted with the bid will be forfeited in favor of the Commission.
24. Bidder must have regular place of business, telephone numbers and email address and must provide proof of their existence in the particular business.
25. The equipment/software/renewals supplied must be duty paid in respect of all applied duties and taxes.
26. The quantities required may vary according to SECP requirement.
27. A copy of valid authorized agency/partnership/dealership/distributorship certificate from their principals is to be submitted with the bid.

28. The bidders do not have the option of submitting their bids electronically. Telegraphic and conditional bids will not be accepted. Unsealed bids will not be entertained.
29. The earnest money of successful bid will be retained and that of other bidders will be returned.
30. Bids received will be evaluated as per evaluation criteria mentioned in the TOR's.
31. The place of destination is: **Securities and Exchange Commission of Pakistan**, 4th Floor, NICL Building, 63 Jinnah Avenue, Blue Area, Islamabad.
32. Sealed bids may be dropped in the tender drop box placed at Ground Floor of the NIC Building, 63 Jinnah Avenue, Islamabad.
33. The envelopes shall bear the following additional identification marks:

Bid for: "Consolidated Storage Solution for Head Office and DR Site with Complete Support and Warranty"

Bidder Name: XYZ

Attention: Assistant Director, Admin, 4th Floor
NICL Building, 63 Jinnah Avenue
Blue Area, Islamabad

34. The deadline for the submission of bids is:
Date: February 09, 2016
Time: 1500Hrs

35. The bid opening shall take place at:

Securities and Exchange Commission of Pakistan
4th Floor, NICL Building, 63 Jinnah Avenue, Blue Area,
Islamabad
Date: February 09, 2016
Time: 1530Hrs

36. A statement "**Not to be opened before 1530 Hrs on February 09, 2016**" shall be clearly mentioned on the top of the sealed bid.
37. Only registered suppliers who are on Active Taxpayers List (ATL) of FBR are eligible to supply goods/services to the Commission.
38. If any supplier is not in ATL then his payment shall be stopped till he files his mandatory returns and appears on ATL of FBR.
39. Items included in Compulsory Certification Scheme of PSQCA shall be duly certified by an accredited laboratory and fulfill necessary conditions of PSQCA, as applicable.
40. The bids received after the due date and time will not be entertained.
41. The right to accept, reject and cancel any offer without assigning any reason is hereby reserved. The SECP's decision will be final and binding in all matters relating to this invitation.

42. The SECP is not bound to accept the lowest bid and reserves the right to accept full or partial supplies offered and bidders should supply the same at the rates finalized between the agency and the bidder.
43. SECP reserves the right to cancel this invitation and reject all bids at any stage of the bidding process.
44. The SECP reserves the right to amend/change/revise the TORs of invitation if deemed necessary. The successful bidder shall have to provide the services accordingly.

Note:

- **The attachment details are as under**

1. Terms of Reference

Annex “A”

- **If the above terms and conditions are acceptable then bids must be submitted well in time and according to the requirements.**

TERMS OF REFERENCE

CONSOLIDATED STORAGE SOLUTION FOR HEAD OFFICE AND DR SITE WITH COMPLETE SUPPORT AND WARRANTY

PURPOSE:

This is a Request for Proposal (RFP) to solicit sealed proposals to select, procure, install, configure, migrate and manage a **consolidated storage system for head office (HO) and Disaster Recovery Center (DRC)**. The Commission may enter into a contract to have the selected bidder perform the entire project on turnkey basis. TOR's provide details on what is required to submit a Proposal for the work, how the Commission will evaluate the Proposal and what will be required by the Contractor in performing the work.

BACKGROUND:

The Securities and Exchange Commission of Pakistan (SECP) is a government agency whose purpose is to develop a modern and efficient corporate sector and a capital market based on sound regulatory principles, in order to foster economic growth and prosperity in Pakistan. SECP consists of a Main Head Office, located in NICL Building Blue Area, Islamabad with its eight branch offices across the country which include Peshawar, Islamabad, Lahore, Faisalabad, Multan, Sukkur, Karachi and Quetta.

Information Systems and Technology Department (IS&TD) at SECP provides information technology leadership, to build the Commission's information technology infrastructure and effectively participate in making it a modern and efficient regulator. The Department strives to expand technology support to create the information technology environment that the Commission needs in order to achieve its mission and vision. To be successful in this role, IS&TD has been developing broad based partnerships throughout the organization and beyond, even reaching out to the outside stakeholders. In short, IS&TD's mission is to be the technology partner for all the members of the SECP community.

PROJECT OBJECTIVES:

The main objective is to acquire a replacement of existing SECP's storage systems (SAN and Centera – Document Archiver). Following requirements depict the expectations from the bidder:

- Acquire a replacement for document archiving system (EMC Centera) for Head Office and Disaster Recovery Centre (DRC), situated at Islamabad and Lahore respectively.
- Migrate data from existing **archiving solution** deployed at Head office Islamabad and DRC Lahore to the new/ offered solution.
- Migrate data from existing **SAN solution** deployed at Head office Islamabad and DRC Lahore to the new/ offered solution.
- Assure data integrity after migration (preferably from an independent 3rd party).

EXISTING SYSTEM:

Existing archiving system deployed at SECP Head office and DRC Islamabad is an EMC based solution and consists of a pair of EMC Centera Gen4LP, hardware and software. Centera is a networked storage system to store and provide fast, easy access to fixed content

(information in its final form). Data is archived / retrieved via **EMC CTA** that creates stub file at NAS shares in place of the actual data/file.

EMC Centera features WORM (write once, read many) attributes of non-rewrite ability and non-erase ability. With C-clip technology, any object presented to the system is stored in such a ways that it is unchangeable, authenticated and transparent to the end-user application. Centera is built upon Redundant Array of Independent Nodes (RAIN) architecture. There are 08 such nodes at each location (Primary and DR site) with 4 X 750GB SATA disk drives installed in each node.

Following are the technical specification of the existing Centera solution.

Primary Site Current Solution Technical Specifications	
Product	EMC Centera Gen4LP
Serial Number	CK200081100085
Node Model	100-580-539 A11
Edition	Governance Edition
Product Detail	8 Nodes with 2.7TB Native Capacity per Node ~ 23TB RAW capacity ~9.7 TB usable capacity ~7TB Current Used Capacity 32 NLSAS disks installed (each with 750GB capacity) Nodes are configured as RAIN Configurable Retention Policies single-instance storage
Software Detail	CentraStar 4.2.1-4184-0-1
Data Nature	IBM Content Manager (CM) Contents (XFDL attachments), Document Files, PDF Files, etc.
Other	<ul style="list-style-type: none"> ▪ Native Replication solution between Primary and DR Centera ▪ Single Instance Support /Deduplication Supported
Archiver	EMC CTA Physical Appliance (7.5b220)
DR Site Current Solution Technical Specifications	
Product	EMC Centera Gen4LP
Serial Number	CK200081100087
Node Model	100-580-539 A11
Edition	Governance Edition
Product Detail	8 Nodes with 2.7TB Native Capacity per Node ~ 23TB RAW capacity ~9.7 TB usable capacity ~7TB Current Used Capacity 32 NLSAS disks installed (each with 750GB capacity) Nodes are configured as RAIN Configurable Retention Policies single-instance storage
Software Detail	CentraStar 4.2.1-4184-0-1
Data Nature	IBM Content Manager (CM) Contents (XFDL attachments), Document Files, PDF Files, etc.
Other	Native Replication solution between Primary and DR Centera

	Single Instance Support /Deduplication Supported
Archiver	EMC CTA Physical Appliance (7.5b220)

Table 1: Existing Centera Details

Other than Centera, EMC VNX 5300 is also installed at head office/ primary and DR site. Following are the details of the existing EMC solutions at HO and DRC.

Primary Site Current Solution VNX 5300 Details	
Product	EMC VNX 5300
Serial Number	APM00123303329
Storage Model	VNX 5300 (Unified)
Software Version	05.32.000.5.216
Data Nature	Virtual Machines (VMs), Oracle ASM
Replication	Currently through EMC Recover Point (RP)
DR Site Current Solution VNX 5300 Details	
Product	EMC VNX 5300
Serial Number	APM00123303349
Storage Model	VNX 5300 (Unified)
Software Version	05.32.000.5.216
Data Nature	Virtual Machines (VMs), Oracle ASM

Table 2: Existing VNX 5300 Details

REQUIRED SYSTEM:

Storage Replacement Technical/ Strict Requirements:

Interested parties are required to submit comprehensive, end-to-end **separate** technical and financial proposals for replacement of current EMC Centera and EMC VNX storage solutions for both primary and DRC sites of SECP with minimum following requirements. The interested parties **MUST** provide a **compliance sheet** in a tabular form against each of the following requirements:

- 1. Migration of existing data, as mentioned in the Table 1 against Data Nature, from EMC Centera storage solution to the new/ proposed storage solution through automated tools. The integrity and correctness of data after migration will be responsibility of the vendor with verification certificate from the Principal/ third party.**
- 2. Verification/ certification of Centera data migrated to the new storage solution through IBM Content Manager (CM v8.x) will also be responsibility of the vendor.**
- 3. Migration of existing data, as mentioned in the Table 2 against Data Nature, from EMC VNX 5300 unified storage solution to the new/ proposed storage solution through automated tools. The integrity and correctness of data after migration will be responsibility of the vendor with verification certificate from the Principal/ third party.**

4. A tiered unified storage solution is required with adequate disk capacity at each storage tier as given in the disk requirement tables below. The proposed solution should include typical storage tiers based on SSD, SAS and NL-SAS disks.
5. Redundant storage controllers and redundant storage processors (SPs) in the proposed storage solution.
6. Minimum 2x 16Gbps ports on each storage controller (total 4x 16Gbps ports for 2x storage controllers).
7. Minimum 4x CPU cores per storage processor.
8. Minimum 32GB cache per storage controller.
9. Data compression and data deduplication features at SP or storage level.
10. Redundant Fiber Channel Switch (FCS) with 16Gbps speed.
11. Minimum 12x licensed/ active ports per Fiber Channel Switch (FCS) with 16Gbps speed.
12. Integration with latest VMware Site Recovery Manager (SRM) for enabling DR operations as required by SECP.
13. Provisioning of detailed storage life cycle (GA date, EOS date, EOL date, EOSL date etc.) and road map of storage from the Principal/ manufacturer.
14. Replication setup to Disaster Recovery (DR) site through an existing dedicated link of 50Mbps.
15. Replication technology offered must meet 30 Minutes Recovery Point Objective (RPO).
16. New DR replication mechanism with proposed storage solution supporting compression OR integration and SLA for existing replication mechanism (EMC Recover Point – RP) for minimum three (03) years.
17. Comprehensive professional training for at least two (02) SECP resources on the proposed storage solution.
18. NL-SAS disks having more than 2TB disk capacity will not be acceptable for Capacity tier.
19. SAS disks must be 10K RPM or higher.
20. NL-SAS disk must be 7.2K RPM or higher.

The interested parties are required to propose three solutions based on storage sizing/ requirement of SECP. The proposed solutions must cover the growth @ 30%, 50%, and 70% from the existing data/ storage currently in use. The storage volume calculation details are presented below:

Volume Calculation based on 30% expected growth

Storage Allocation Categories/Pools	Current Allocation TB	Expected expansion after migration of archived Data	Expected Growth over the 3 years	Required TB 80%	Required TB 100%	Disk Type / Pool Type	Pool wise Required TB	Pool wise Required TB	Expected Useable Capacity based on RAID Configuration
Total	42.73		30% growth	59.30	74.12		80%	100%	
Oracle + Arch Log	5.8		1.74	7.54	9.43	SAS+SSD	33.389	41.74	44.676
Non DR LUNs	5.24		1.57	6.81	8.52	SAS+SSD			
VNX Production	6.25		1.88	8.13	10.16	SAS+SSD			
Exchange Production	2.14		0.64	2.78	3.48	SAS+SSD			
Exchange Archiving	1.5		0.00	1.50	1.88	SAS+SSD			
Journaling for Replication	1.6		0.48	2.08	2.60	SAS+SSD			
BPM + VOSS	3.5		1.05	4.55	5.69	SAS+SSD			
Scanning Archiving	5.6	11.2	0.00	11.20	14.00	NL-SAS	25.91	32.3875	33.516
eservices Production	1.6	3.2	0.96	4.16	5.20	NL-SAS			
SWAP	1.0		0.30	1.30	1.63	NL-SAS			
DFS + Media Server	2.5		0.75	3.25	4.06	NL-SAS			
Scanning Archiving New	6.0		0.00	6.00	7.50	NL-SAS			
Totals for each Storage Tier							25.91	32.3875	33.516

Table 3: Volume Calculation based on 30% expected growth

The RAID configuration for both storage solutions at primary and DR site at 30% expected growth rate is presented in Table-2 below:

RAID Calculation on the Basis of 30% Expected Growth			
Primary Site			
Disk Type	No. of disks	RAID Configuration	Usable Capacity (in GB)
SSD	400GB x 16	(4+1) x 3 + 1HS	4464
SAS	1.2TB x 50	(6+2) x 6 + 2HS	40212
NL-SAS	2TB x 26	(6+2) x 3 + 2HS	33516
DR Site			
Disk Type	No. of disks	RAID Configuration	Usable Capacity (in GB)
SSD	400GB x 6	(4+1) x 1 + 1HS	1488
SAS	1.2TB x 42	(6+2) x 5 + 2HS	33510
NL-SAS	2TB x 38	(6+2) x 4 + 2HS	44688

Table 4: RAID Calculation based on 30% expected growth

Volume Calculation based on 50% expected growth									
Storage Allocation Categories/Pools	Current Allocation TB	Expected expansion after migration of archived Data	Expected Growth over the 3 years	Required TB 80%	Required TB 100%	Disk Type / Pool Type	Pool wise Required TB	Pool wise Required TB	Expected Useable Capacity based on RAID Configuration
Total	42.73		50% growth	64.85	81.05625		80%	100%	
Oracle + Arch Log	5.8		2.90	8.70	10.88	SAS+SSD	37.595	46.99375	51.378
Non DR LUNs	5.24		2.62	7.86	9.83	SAS+SSD			
VNX Production	6.25		3.125	9.375	11.72	SAS+SSD			
Exchange Production	2.14		1.07	3.21	4.01	SAS+SSD			
Exchange Archiving	1.5		0.00	1.50	1.88	SAS+SSD			
Journaling for Replication	1.6		0.80	2.40	3.00	SAS+SSD			
BPM + VOSS	3.5		1.05	4.55	5.69	SAS+SSD			
Scanning Archiving	5.6	11.2	0.00	11.20	14.00	NL-SAS	27.25	34.0625	44.688
eservices Production	1.6	3.2	1.60	4.80	6.00	NL-SAS			
SWAP	1.0		0.50	1.50	1.88	NL-SAS			
DFS + Media Server	2.5		1.25	3.75	4.69	NL-SAS			
Scanning Archiving New	6.0		0.00	6.00	7.50	NL-SAS			
Totals for each Storage Tier							27.25	34.0625	44.688

Table 5: Volume Calculation based on 50% expected growth

The RAID configuration for both storage solutions at primary and DR site at 50% expected growth rate is presented in Table-4 below:

RAID Calculation on the Basis of 50% Expected Growth			
Primary Site			
Disk Type	No. of disks	RAID Configuration	Usable Capacity (in GB)
SSD	400GB x 16	(4+1) x 3 + 1HS	4464
SAS	1.2TB x 50	(6+2) x 7 + 2HS	46914
NL-SAS	2TB x 26	(6+2) x 4 + 2HS	44688
DR Site			
Disk Type	No. of disks	RAID Configuration	Usable Capacity (in GB)
SSD	400GB x 6	(4+1) x 1 + 1HS	1488
SAS	1.2TB x 42	(6+2) x 6 + 2HS	40212
NL-SAS	2TB x 38	(6+2) x 5 + 2HS	55860

Table 6: RAID Calculation based on 50% expected growth

Volume Calculation based on 70% expected growth									
Storage Allocation Categories/Pools	Current Allocation TB	Expected expansion after migration of archived Data	Expected Growth over the 3 years	Required TB 80%	Required TB 100%	Disk Type / Pool Type	Pool wise Required TB	Pool wise Required TB	Expected Useable Capacity based on RAID Configuration
Total	42.73		70% growth	71.791	89.73875		80%	100%	
Oracle + Arch Log	5.8		4.06	9.86	12.325	SAS+SSD	43.201	54.00125	58080
Non DR LUNs	5.24		3.668	8.91	11.14	SAS+SSD			
VNX Production	6.25		4.375	10.63	13.28	SAS+SSD			
Exchange Production	2.14		1.498	3.64	4.55	SAS+SSD			
Exchange Archiving	1.5		0.00	1.50	1.88	SAS+SSD			
Journaling for Replication	1.6		1.12	2.72	3.40	SAS+SSD			
BPM + VOSS	3.5		2.45	5.95	7.4375	SAS+SSD			
Scanning Archiving	5.6	11.2	0.00	11.2	14.00	NL-SAS	28.59	35.7375	44688
eservices Production	1.6	3.2	2.24	5.44	6.80	NL-SAS			
SWAP	1.0		0.70	1.70	2.125	NL-SAS			
DFS + Media Server	2.5		1.75	4.25	5.3125	NL-SAS			
Scanning Archiving New	6.0		0.00	6.00	7.50	NL-SAS			
Totals for each Storage Tier							28.59	35.7375	44688

Table 7: Volume Calculation based on 70% expected growth

The RAID configuration for both storage solutions at primary and DR site at 70% expected growth rate is presented in Table-6 below:

RAID Calculation on the Basis of 70% Expected Growth			
Primary Site			
Disk Type	No. of disks	RAID Configuration	Usable Capacity (in GB)
SSD	400GB x 16	(4+1) x 3 + 1HS	4464
SAS	1.2TB x 50	(6+2) x 8 + 2HS	53616
NL-SAS	2TB x 26	(6+2) x 4 + 2HS	44688
DR Site			
Disk Type	No. of disks	RAID Configuration	Usable Capacity (in GB)
SSD	400GB x 6	(4+1) x 1 + 1HS	1488
SAS	1.2TB x 42	(6+2) x 7 + 2HS	46914
NL-SAS	2TB x 38	(6+2) x 4 + 2HS	44688

Table 8: RAID Calculation based on 70% expected growth

EVALUATION CRITERIA:

The evaluation criteria for evaluating the proposed solutions will be as follows:

Technical	60%
Financial	40%
Total	100%

NON-TECHNICAL REQUIREMENTS: The proposals **MUST** also cover the following:

1. **DR test run with new storage solution for failover and failback configuration of storage and data between SECP Head Office and DR site after migration of data to the new/ proposed storage solution.**
2. **Market leader or at least challenger position for the proposed storage brand/ solution in the recent leading industry research reports like Gartner/ Forrester etc.**
3. **Preferred/ Enterprise/ Gold/ Tier 1 Partnership with the storage manufacturer/ Principal in Pakistan. Valid partnership letter MUST be enclosed with the bid.**
4. **The vendor should have experience of at least three (03) years of storage solution deployments in Pakistan.**
5. **Partner Presence in Major cities of Pakistan i.e. Lahore, Islamabad and Karachi.**
6. **Experience in similar storage solution deployments with client references (at least three references required).**
7. **Warranty support/ maintenance of the complete solution (hardware and software) for at least three (03) years at both primary and DR site.**

SCOPE OF WORK: Following services are required from successful bidder:

IMPLEMENTATION:

1. Deliver and Install the storage equipment with all accessories at respective locations i.e., SECP Head Office (Islamabad) and Disaster Recovery – DR site (Lahore).
2. Plan, Design and Implement, migrate data (provide migration reports), verify data and certify the deployment of offered storage solutions at both sites.
3. Configure and verify replication between SECP HO and DR site in Lahore.
4. Successful failover and failback DR test run of the proposed solution from HO to DR site and vice versa.

BID SUBMISSION:

1. Pre-bid meeting will be held with all interested parties to clarify technical and non-technical requirements given in the bidding documents. The discussion and answers to queries of pre-bid meetings will be posted on SECP website.

2. Bids **MUST** comply with all technical and non-technical requirements given in this bidding document.
3. Post-bid technical meetings for endorsement/ clarifications of the technical proposals details may be requested by SECP.
4. Bids should not be excessively long or submitted in an elaborate format that includes expensive binders or graphics.
5. Each page of the bid should state the name of the bidder, the tender name, and the page number.
6. To facilitate comparison of bids, bidders must submit bids in a format that corresponds to the following:
 1. Bid Cover Sheet, signed by an officer of the company
 2. Bids must include a table of contents listing all sections:
 - a. Section 1: Introduction and general information about the bidder (including years in business)
 - b. Section 2: Staffing and technical manpower with experience and qualification/ certifications (storage solution specific)
 - c. Section 3: Support Matrix, escalation matrix
 - d. Section 4: Existing clients along contact numbers
 - e. Section 5: List company's financials
 - f. Section 6: Compliance sheet for technical/ non-technical requirements
 - g. Section 7: Timelines of delivery and implementation of the project

GENERAL QUESTIONS:

All relevant questions must have a response, each response must begin with the original question, and the questions must be in the original order. Each question needs a response of one (1) page or less. A page is considered to be a single side of a page with 1" margins (top, bottom, right, and left), single spaced, and a font size no smaller than 12 points. Responses exceeding the page limit risk having any additional information may be ignored. All relevant information must be included within the response. The use of references or links to additional information to circumvent the page limit may be ignored.

1. Offsite DR: Describe your solution's ability to replicate data to an offsite location used for disaster recovery (DR).

2. Onsite Installation: Supplier will be responsible for onsite installation and migration of existing data and services. Cost of installation and migration must be included in the solution's total cost.

OTHER TERMS & CONDITIONS:

1. Comprehensive warranty & Onsite Support for three (03) years shall be given for all CPE (Client Premises Equipment).
2. Service provider must have a call center with 24x7x365 availability and a UAN for complaint logging and escalation.
3. Equipment delivery time must be within 4-6 weeks from the date of purchase order from SECP.
4. Exact timelines of all activities must be clearly mentioned in the proposal.

Evaluation Criteria

Sn.	Description	Value
1	Solution for migration of Data from EMC Centera and verification	Must
2	Solution for migration of EMC VNX 5300 Data and verification	Must
3	Tiered Unified Storage based on SSD,SAS and NL-SAS	Must
4	Redundant Storage Controllers	Must
5	2 x 16Gbps Active interfaces per Controller	Must
6	Minimum 4 x CPU Cores per storage processor	Must
7	Minimum 32GB cache per Storage Controller	Must
8	2x 16Gbps FC Switches with 12 active/ licensed ports in each switch	Must
9	Integration with latest VMWare SRM	Must
10	Proposed storage GA, EOS, EOL, EOSL dates to be provided	Must
11	Professional Training for 02 SECP resources	Must
12	SAS with 10K RPM or higher	Must
13	NL-SAS with 7.2K RPM or higher	Must
14	SAS 1.2TB max capacity	Must
15	NL-SAS 2.0TB max capacity	Must
16	03 years comprehensive onsite warranty and support	Must
17	Installation and Configuration at HO, Islamabad and DRC Lahore	Must
18	Solution for DR Testing after Migration	Must
19	Replication Solution or Recover Point SLA for 3 years included in the Cost	Must
20	Compression before replication to minimize the bandwidth requirements	Must
21	Replication can meet Maximum 30 Minutes RPO	Must
22	Leader / challenger in recent leading industry research reports on storage	Must
23	Enterprise/ Gold/ Tier 1 partnership certificate	Must
24	At least 03 years' experience of deploying similar solution in Pakistan	Must
25	Reference of similar deployments (at least 02)	Must
26	Controller Cache	20
27	CPU Cores per controller	20
28	Data Compression/Deduplication at SP/ storage level	10
29	Fast Cache 600GB or greater	10
30	Disk interface backplane 12Gbps	10
31	iSCSI and other NAS Protocols support	05

Note:

The bids **not** in compliance with **MUST** criteria will not be evaluated.