



**OIL & GAS DEVELOPMENT COMPANY LIMITED**  
**PROCUREMENT DEPARTMENT (LOCAL), ISLAMABAD**  
**SCHEDULE OF REQUIREMENT**

Material : **PROCUREMENT OF NAS STORAGE AND 3 YEARS  
MAINTENANCE SUPPORT SERVICES**

**Due Date:**

Tender Enquiry No: **PROC-LH/PT/18342**

Bid Bond Value : RS. 2,406,000/-

Attachment(if any) : **YES**

EVALUATION WILL BE CARRIED OUT ON FULL

Sr No	Description	Quantity	Make/Brand offered	Unit	Unit Price (PKR) Inclusive Of All Taxes Except GST	Unit Price (PKR) Inclusive of GST	Total Price (PKR) Inclusive of GST	Delivery Period Offered	deviation from Tender Spec. If Any
1	"DELL EMC ISILON NAS STORAGE H500 Series (6th Generation) with usable capacity of 300TB (alongwith accessories)" or "Equivalent (alongwith accessories)".	1		Number					
2	Professional Services for new Hardware & Software Integration.	1		Number					
3	Maintenance & Support Services for 1st Year.	1		Number					
4	Maintenance & Support Services for 2nd Year.	1		Number					
5	Maintenance & Support Services for 3rd Year.	1		Number					

**Special Note:** The prospective bidders also download the master set of Tender Document

- The prospective bidders may keep in touch with OGDCL web site for downloading the clarifications/amendments (if any) issued by OGDCL.
- DELIVERY TERM: AS PER ATTACHED T.O.R ON I-9 BASE STORE, ISLAMABAD. PAYMENT TERM: AS PER ATTACHED T.O.R.



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**Mandatory Checklist**

Please confirm the compliance of the following mandatory information along with the bid(s) (failing which bids(s) will not be accepted)

Documents	To be Attached with the Technical/Financial Bids	Compliance	
		Yes <input type="checkbox"/>	No <input type="checkbox"/>
Original Bid Bond	Technical Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Copy of NTN Certificate	Technical Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Copy of GST Certificate	Technical Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Confirmation that the Firm is appearing on FBR's Active Taxpayer List	Technical Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Duly signed and stamped <b>Annexure-A (Un-priced)</b>	Technical Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Duly filled, signed and stamped <b>Annexure-B</b>	Technical Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Duly filled, signed and stamped <b>Annexure-D</b>	Technical Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Duly filled, signed and stamped <b>Annexure-L</b> on Company's Letterhead	Technical Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Duly signed and stamped <b>Annexure-M</b> on Company's Letterhead	Technical Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Duly signed and stamped <b>Annexure-N</b> on Non-Judicial Stamp Paper duly attested by Notary Public	Technical Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Duly filled, signed and stamped <b>Annexure-A (Priced)</b>	Financial Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Duly filled, signed and stamped <b>Annexure-C</b>	Financial Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Duly filled, signed and stamped <b>Annexure-E</b>	Financial Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>



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For the Vendors/Contractors who opt to submit Bank Draft/Call Deposit/Pay order against Bid Bond/Performance Bond, our Accounts Department has finalized an arrangement for online payment to such Vendors/Contractors, which will be processed through (IBFT & LFT) for which following information is required:

i.	IBAN No. (International Bank Account Number 24 Digits)	
ii.	Vendor Name as per Title of their Bank Account	
iii.	Contact No.of Company's CEO/ Owner (Mobile & Landline)	
iv.	Bank Name.	
v.	Bank Branch Name and Code	

Name, Sign and Stamp of the authorized official of the Bidder(s) \_\_\_\_\_

## **TERMS OF REFERENCE**

### **PROCUREMENT OF NAS STORAGE AND ITS 03 YEARS MAINTENANCE / SUPPORT SERVICES AGREEMENT**

M/s OGDCL Exploration (Prospect Generation) department intends to upgrade and enhance its Geophysical & Geological Interpretation Facility data storage capacity. The facility is currently hosting various G&G applications from M/s Schlumberger, M/s Halliburton and M/s LMKR.

The proposed up-gradation consists of the following jobs;

- Procurement of storage along with technology refresh & capacity enhancement up to 300 TB usable (inclusive of storage software upgradation),
- Installation, testing, deployment and commissioning of storage with the existing hardware,
- Shifting of all G&G software data from existing to new storage.
- 03 years Maintenance and Support services for storage.

This document contains details about the;

- Basic eligibility criteria for bid,
- Detailed terms and conditions for the (03) three year Maintenance and Support Services (M&SS).
- Technical specifications of the required hardware,
- Details of the installed / existing setup

#### **A. BASIC ELIGIBILITY CRITERIA/MANDATORY REQUIREMENTS:**

- At least 05 years of M&SS experience for Network Attached Storage solutions.
- Bidder must have completed at least 03 No. of Network Attached Storage (NAS) Deployment/ Configuration/ Upgradation along with M & SS projects.
- Bidder must have at least 02 customer support offices, at least 01 in Islamabad, Pakistan.
- The bidder must be able to supervise installation and successful running of G&G software applications of Exploration department after complete deployment of new hardware.
- The bidder must be able to supervise migration of G&G software data from old to new storage as well as from one software to another during the period of the M&SS (where deemed necessary).
- The bidder which fails to conform to the basic eligibility criteria will be technically disqualified.

- Prices must be quoted in Pakistani currency inclusive of all taxes and duties, indicating unit price and total bid prices as per format of Schedule of Requirement. GST must be quoted separately along with copy of GST Certificate. Bids offering prices in foreign currency will be rejected. Conditional bid / bid having any price adjustment formula will be rejected.

**B. DETAILED TERMS AND CONDITIONS FOR 03 YEARS (M&SS)**

1. Access on a 24x7 basis (including holidays) to the Customer Service and Support for troubleshooting assistance of products / software preferably onsite, telephonically or through web interface at the earliest (depending upon severity).
2. The support on the purchased hardware (& its running software) along with its maintenance should remain available at least for next 05 years.
3. The period of Maintenance & Support Services (M&SS) is 03 years.
4. The existing Scale-out storage X410 EMC ISILON should be connected to new network storage (as secondary storage) and must be visible/accessible on the network.
5. The contractor shall provide manufacturer specified warranties for the required/quoted hardware other than the 03-year warranty for replacement of parts in case of malfunctioning.
6. The operating software releases of the required storage should be made available by the contractor (when necessary) as updates/patches.
7. The bidder shall visit the facility after deployment periodically to observe system performance and shall inform the focal person in OGDCL Interpretation Facility section.
8. The bidder shall provide monitoring tool in Exploration (PG/IF) premises for monitoring of storage.
9. The bidder shall assist OGDCL with power and cooling capacity calculations for the installed equipment.
10. The bidder will provide connectivity & Backup/recovery plan on existing LTO-6 TDL.
11. The storage-solution design should be capable of providing platform to all G&G software applications.
12. M&SS start date will be after complete and successful deployment of hardware and software.
13. OGDCL shall make all payments of M&SS invoices on annual basis against duly verified invoices in Pak. Rupees after completion of year.
14. OGDCL will not make any advance payment.
15. The hardware, services for integration of new hardware/software and M&SS cost will be quoted separately by the bidder.

16. The bidder can propose a complete alternate compatible storage solution (in comparison to the stated one) keeping in view the existing hardware setup as a bench mark solution for Petro-Technical Applications.
17. The bidder can have an onsite visit of M/s OGDCL's existing storage setup before bidding for obtaining most understanding about.

#### **SPECIFIC RESPONSIBILITIES OF BIDDER REGARDING M&SS AGREEMENT**

18. Delivery of required hardware as per BOQ
19. Assembly of hardware
20. Rack & Stack of Storage
21. Internal network configuration/connectivity & Power up of Storage.
22. Configuration of Storage & Volumes (sync of internal clusters) & testing as per requirements.
23. Testing by mounting storage shares on servers /end users workstations.
24. Post deployment storage health check (remote) and warranty services as per agreement.
25. System architecture design based on the petro-technical applications.
26. The bidder will be responsible for creating User Account Administration server.
27. One window solution provider (Software & Hardware) and will be sole point of contact for support.
28. Business Rule Documentation – BRD as agreed by OGDCL & bidder.
29. Solution Benchmarking for Petro-Technical applications.
30. Fortnightly onsite support for monitoring and system health check for 3 years.
31. System and data Migration from old to the new infrastructure (grouping/copying/moving across storage).
32. Network Integration/deployment/configuration and server management as per requirements and developed architecture during the course of M&SS period.
33. Assigning of data permissions as per client policies.
34. Application permissions testing and problems fixing with new storage.
35. Bidder will ensure continued provision of the latest version of storage software patches once they are commercially available and applicable for 03 years (+2 years) period.
36. The delivery of hardware should be made within 90 (Ninety) days of issuance of LPO and installation, testing and running should be completed in 45 days (Forty Five) days from issuance of notice of mobilization from OGDCL.
37. Nominations and security clearance details of contractors professional involved during the project would be shared in detail.
38. Bidder is required to furnish fortnightly progress reports of the activities under taken in due course of time. The bidder shall submit detailed project plan defining activities, sub-activities etc. in the form of Gantt chart.

39. New Topology Detailed Diagram/Network Diagram. Documentation for installation/ configuration related to complete project. All the documentation should be comprehensive and well-structured to be submitted both soft and hard copy format. It should include but not limited to;
- a. Detail Project Plan/Project Schedule
  - b. Configuration Manual
  - c. Operation Manual
  - d. SOPs for all installation & configurations
  - e. Training manuals
  - f. Migration Plan of software applications on new storage solution
  - g. Enterprise level Backup Mechanism plan.
  - h. User Manual
  - i. Equipment Test report
40. The bidder is required to submit dependencies & risks involved in project proposal. The bidder can visit the existing data center of M/s OGDCL Exploration (PG/IF) department before submission of proposal.
41. Bidder will ensure the correction of all errors, bugs, deviations or failures in the performance of the Product(s) to ensure that the Product(s) continue to perform in accordance with the specifications and / or documentation. Bidder will keep OGDCL team informed of bug severity level, time interval required for the resolution of issues reported accordingly.
42. Bidder should be able to provide support via email and telephone (during business days and business hours) and the online support portal for reporting malfunctions,
43. Bidder shall provide reasonable onsite/ telephonic assistance by their trained technical representative(s) after OGDCL placement of a call, but in no event beyond four (04) business hours after OGDCL notification of the Product(s) failure.
44. Restoration time of storage should not be more than 24 hours, in case of failure/malfunctioning.
45. Bidder shall be able to provide expert local / global support in case of any issue related to hardware and software,
46. Bidder shall provide query resolution timeline based on the severity of issue.
47. Bidder shall be able to deploy resources onsite in OGDCL premises (if required),
48. Bidder shall clearly state response timelines for onsite support engineer deployment.
49. Bidder shall be able to replace faulty hardware as per part of the scope.
50. Bidder shall communicate response timeline for faulty parts replacement to OGDCL.
51. Bidder shall replace storage & its software with its upgradation (during the period of the M&SS) whenever available (along with migration of all necessary data existing on current storage, if OGDCL deems necessary).

52. Bidder shall quote prices in Annexure-A (Schedule of Requirement) duly filled-in, stamped and signed by authorized representative of Bidder(s). Prices must be quoted as per format of Schedule of Requirement (SOR)

**C. TECHNICAL SPECIFICATIONS OF REQUIRED HARDWARE:**

Sr#	"H500 NODES - 300TB Useable (Single Site)" Or "Equivalent"	QT Y
1	UDS ISILON GEN6, H500	1
2	2X40GBE QSFP + BACK END W/O OPTICS	4
3	B/E SWITCH 40GBE 32P QSFP28 Z9100 W/OS	2
4	2X10GBE SFP + W/O OPTICS	4
5	PWCRD KIT FOR GEN6 NORMAL CHASSIS	2
6	ISD - 3.2TB SSD	4
7	BASE CHASSIS - NORMAL	1
8	TRANSCEIVERS/OPTIC/SFP+/SR/10GBE/2 GEN6	4
9	H500-2.2GHZ/10C/128G+15X8TB SAT/3.2TB	4
10	CABLE, ETHERNET, 40G, PASS, HALFREE, 3M	8
11	PWRCRD,1,TITAN,15F,IEC60309,230V UNIVL	4
12	RACK ASSY TITAN-D 40U SINGLE PHASE	1
13	PROSUPPORT 4HR/MC HARDWARE SUPPORT	1
14	SEL-SUPERNA-EYEGLASS DR QUICK START	1
15	ONEFS PRODUCT	1
16	ONEFS CAPACITY LICENCE TIER 3 = CB	480
17	ONEFS BASE LICENCE TIER 3 = ID	4
18	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
19	ENTERPRISE ADV BUNDLE CAP T3 PER TB = CB	480
20	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
21	ENTERPRISE ADVANCED BUNDLE TIER 3 = ID	4
22	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
23	HDFS FOR ONEFS 0.00	4
24	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
25	SUPERNA-EMC SELECT	1
26	SEL MAINT EYEGLASS DR MANAGER ENT 3YR	4
27	SEL EYEGLASS DR MANAGER ENTERPRISE VAPP	4
28	PD FOR ISILON EXPANSION	4
29	TECH REFRESH UPTO 10NODES DATA ONLY	1
30	DATAIQ PREPATUAL	1
31	DATAIQ DELL BASE LIC=IF	1
32	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1



## D. DETAILS OF INSTALLED AND EXISTING SETUP

	<i>Item 1</i>	
Sr.#	Description; Hardware Configuration	Qty
	Servers	(in Nos.)
1	HP ProLiant DL380 Generation 9 HP ProLiant DL380 Server: specifications: Processor: (2) Intel® Xeon® E5-2620 (6 core, 2 GHz, 15MB, 95W) Memory: HP 128 GB Memory Network Ctr: HP Ethernet 1Gb 4-port 331FLR Adapter Network Ctr: HP Ethernet 2x10Gb 560FLR-SFP+Adaptor HP 82E 8Gb Dual-port PCI-e FC HBA Storage Controller: HP Smart Array p420i/1 GB with FBWC Hard Drive: 2xHP 300 GB 6G SAS 10K 2.5in DP ENT HDD Internal Storage: Standard 8 SFF SAS/SATA HDD Power Supply: (2) 1400W FS Plat Hot plug Powers Supplies Fans: (6) (N+1 redundancy Standard) Form Factor: Rack (2U+2U) HP Raid 1 Drive 1 FIO setting HP 2U SFF BB Gen8 Rail Kit HP 200 GB Logical size FIO setting HP 3v 4h 24x7 DL38x(p) HW Support RHEL OS HP 10 Dual Port Ethernet Card (included as HP Ethernet 560FLR-SFP+Adaptor) Warranty:3/3/3 Warranty Optical Drive: HP 9.5mm SATA DVD-RW Optical Kit	4
	<i>Item 2</i>	
	Workstations	
2	HP Z840 Workstation (FF825AV) Processor: Intel Xeon E5-2630 v3 2.40Ghz 20MB 1600 8C 1st CPU Processor: Intel Xeon E5-2630 v3 2.40Ghz 20MB 1600 8C 2nd CPU Form Factor: 1125 Efficient Chassis, Rackable minitower Memory: HP 64GB DDR3-1866 (4x16GB) Registered RAM Integrated 6+6-channel SATA/SAS 6/3 Gb/s controller, Memory Slots: 16 DIMM NVIDIA Quadro K5200 4GB Graphics Card Storage: 256GB SATA SSD HP 500 GB SATA 7200 HDD HP 16X DVD+- RW SuperMulti SATA 1st Drive HP USB Optical Scroll Mouse and Keyboard HP Dual Processor with Liquid / Air Cooling Solution Dual integrated Intel GbE LAN MS Windows 7 / 10 Professional 64-bit OS/ Linux RH Audio: Integrated High Defination Realtek ALC262 Audio	15

	<b>Item 3</b>	
	Monitors	
3	2 x LED 24" IPS Display W Monitor Warranty:3/3/3 Warranty	30
	<b>Item 4</b>	
	42 U Rack System	
4	HP/APC Fully Populated Rack for Servers with PDU, Fans and Cabling a. Installed 42U Rack for Servers b. Rack mountable LCD/LED display with KVM for 6 Servers	1

	<b>Item 5</b>	
	Network Switches and Cables	
5.1	Cisco Switch 1 (Nexus 5548P 1RU) with: 8 x 10GBASE-SR X2 Module 32 x 10/100/1000 RJ45 Module Dual AC power supply 1000	1
5.2	Cisco Switch 2 (Nexus 5548P 1RU) with: 8 x 10GBASE-SR X2 Module 8 x 10GBASE-SR X2 Module 1 x 20 port 10/100/1000 RJ45 Module 2 x AC power supply 1000	1

	<b>Item 6</b>	
6	Network Cabling for the above Servers and Workstation in the Quotation including the below items (Excluding Electricial or Civil Works) 5 Meter cable for 40 Workstations, 20 x dual port Cat VI/V+ faceplate 12 x 2 Meter, 8 x 5 Meter fiber cable and 8 x 10 Meter fiber cable Patch Pannel and 40 patch cable	1

	<b>Item 7</b>	
	Backup System	
7	HP ProLiant DL380 Generation 9 Server as per item 1 specifications 2 x 8 Port Fiber Channel Switch for the Tape Library with 8-port enabled, SFP 1 16, Fiber Cables Tape Library with 20 Tape Slot and 2 x LTO6 drives + Fibase Cables Backup Software with Windows and Linux client support and tape manager. Tape Cartridge LTO-6 + Lables and 05 Cleaning Cartridges EMC 03 Node ISILON System, 3 x 30 TB Raw Disk, 3 x 80GB SSD, 3 x 48 GB RAM, 3 x 2 x 10GB Ethernet ports, NAS Storage	1

**Delivery Period:**

- i. Delivery of Hardware shall be within 90 after issuance of LPO.
- ii. Professional Services for new Hardware and Software integration including installation, running, testing, commissioning and completion to be completed within 45 days after delivery of Hardware items.
- iii. Three Years Maintenance and Support Services period will be started after completion/signing off of the project.

**Payment Terms: -**

- i. 80% payment of Project cost (excluding Three Years Maintenance and Support Services) will be made after delivery of hardware items.
- ii. 20% payment of the Project cost (excluding Three Years Maintenance and Support Services) will be made after completion of the project for hardware/software integration will be released after installation, running, testing, commissioning and completion
- iii. Payment of Three Years Maintenance and Support Services will be made on yearly bases, after performance of services against duly verified invoices in Pak. Rupees after completion of year.