

OIL & GAS DEVELOPMENT COMPANY LIMITED
PROCUREMENT DEPARTMENT, ISLAMABAD
FOREIGN SECTION E

(To be completed, filled in, signed
and stamped by the principal)

ANNEXURE 'A'

Material NAS STORAGE WITH ACCESSORIES ALONGWITH MAINTENANCE & SUPPORT SERVICES
Tender Enquiry No PROC-FE/CB/EXPL-4755/2020
Due Date
Evaluation Criteria FULL

SCHEDULE OF REQUIREMENT

Sr No	Description	Unit	Quantity	Unit Price (FOB)	Total Price (FOB)	Unit Price C & F BY AIR	Total Price C & F BY AIR	Deviated From Tender Spec. If Any
1	"DELL EMC ISILON NAS STORAGE H500 Series (6th Generation) with usable capacity of 300 TB (alongwith accessories)" or "Equivalent (alongwith accessories)".	Number	1					
2	Maintenance & Support Services for 03 Years.	Number	1					

Note:

NOTE:

- 1. Bid Validity:** Bid must be valid for minimum 150 days from the date of Technical Bid Opening
- 2. Bid Bond Amount:** USD 15,000/= (United States Dollar Fifteen Thousand only) or equivalent Pak Rupees valid for 180 days from the date of Technical Bid Opening
- 3. Evaluation Criteria:** - Full Consignment wise CPT by Air Islamabad under **Two Stage Two Envelope**
- 4. Delivery Period:** 90 days from establishment of LC
- 5. Bidders** are advised to carefully read all the terms and conditions of the Tender Document available on OGDCL website which is an integral part of this Schedule of Requirement

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,
- Migration of all G&G software data from existing to new storage
- 03 years Maintenance and Support services for storage.
- 05 days training session of 04 members OGDCL team.

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) agreement,
- Technical specifications of the required hardware,
- Details of the installed / existing setup

A. BASIC ELIGIBILITY CRITERIA/MANDATORY REQUIREMENTS:

- At least 10 years of M&SS experience for Network Attached Storage solutions.
- At least 05 No. of Network Attached Storage (NAS) Deployment/ Configuration/ Upgradation projects during last 10 years (Must include Projects for G&G Departments in E & P Companies).
- Bidder must have at least 03 customer support offices local & foreign and 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.
- Pre shipment third party inspection (TPI) will be carried out at the manufacturers premises. The cost of TPI will be borne by OGDCL.



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) agreement is 03 years.
4. The existing Scale-out storage X410 EMC ISILON should be visible/accessible on the network and only be used for data archiving/retention.
5. The contractor shall provide manufacturer specified warranties for the required/quoted hardware other than the 03 year warranty agreement 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 Weekly Backup and recovery plan on installed 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. 80% payment of Hardware under the L/C will be made for the CFR price of material of each shipment upon submission of the shipping documents. 20% payment of Hardware will be released after receipt, inspection, acceptance of material along with installation, running, testing, commissioning and completion.



16. The hardware, services for integration of new hardware and software and M&SS cost will be quoted separately by the bidder.
17. 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.
18. 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 STORAGE / M&SS

AGREEMENT

19. Delivery of required hardware as per BOQ
20. Assembly of hardware
21. Rack & Stack of Storage
22. Internal connectivity & Power up of Storage
23. Configuration of Storage & Volumes (sync of internal clusters) & testing as per requirements.
24. Testing by mounting storage shares on servers /end users workstations.
25. Post deployment storage health check (remote) and warranty services as per agreement.
26. System architecture design based on the petro-technical applications.
27. The bidder will be responsible for creating User Account Administration server for PETREL software.
28. One window solution provider (Software & Hardware) and will be sole point of contact for support.
29. Business Rule Documentation – BRD as agreed by OGDCL & bidder.
30. Solution Benchmarking for Petro-Technical applications.
31. Fortnightly onsite support for monitoring and system health check for 3 years.
32. System and data Migration from old to the new infrastructure (grouping/copying/moving across storage).
33. Network Integration/deployment as per requirements and developed architecture.
34. Assigning of data permissions as per client policies.
35. Application permissions testing and problems fixing with new storage.



36. 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.
37. The delivery of hardware should be made within 90 (Ninety) days of LC establishment and installation, testing and running should be completed in 45 days (Forty Five) days from issuance of notice of mobilization from OGDCL.
38. Nominations and security clearance details of contractors professional involved during the project would be shared in detail.
39. 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.
40. 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. Third party Test report
41. 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.
42. 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.
43. 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,
44. 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.
45. Restoration time of storage should not be more than 24 hours, in case of failure/malfunctioning.



46. Bidder shall be able to provide expert local / global support in case of any issue related to hardware and software,
47. Bidder shall provide query resolution timeline based on the severity of issue.
48. Bidder shall be able to deploy resources onsite in OGDCL premises (if required),
49. Bidder shall clearly state response timelines for onsite support engineer deployment.
50. Bidder shall be able to replace faulty hardware as per part of the scope.
51. Bidder shall communicate response timeline for faulty parts replacement to OGDCL.
52. 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).
53. The bidder will quote in the following **financial format** (inclusive of all applicable taxes and duties except PST/ICT on services).

HARDWARE PRICE - A

Sr. #	Description	Unit Price FOB (USD)	TOTAL FOB (USD)	Unit C & F by Air (USD)	Total C&F by Air (USD)
1	Storage (NAS) inclusive of all accessories. 80% payment of Hardware under the L/C will be made for the CFR price of material of each shipment upon submission of the shipping documents. 20% payment of Hardware will be released after receipt, inspection, acceptance of material alongwith installation, running, testing, commissioning and completion.				
2	Professional services for new H/W & S/W integration				

SERVICES PRICE - B

Sr. #	Description	Price (USD)
1	Maintenance & Support Services (Yearly) 1 st year	
	" 2 nd year	
	" 3 rd year	
	TOTAL	

Note: Payments against annual clean / verified invoices will be made after completion of every year.

TOTAL PRICE

	Hardware Price (USD) TOTAL C & F by Air ISLAMABD A	Services Total Price(USD) B	TOTAL A+B (USD)

54. The bidder fulfilling the basic evaluation criteria and quoting the lowest (inclusive of Hardware price A and Services Price B) i.e., quoting lowest in total of A+B shall qualify for the award of contract.

C. TECHNICAL SPECIFICATIONS OF REQUIRED HARDWARE:

Sr#	"H500 NODES - 300TB Useable (Single Site)" Or "Equivalent"	QTY
1	2X40GBE QSFP + BACK END W/O OPTICS	4
2	B/E SWITCH 40GBE 32P QSFP28 Z9100 W/OS	2
3	2X10GBE SFP + W/O OPTICS	4
4	PWCRD KIT FOR GEN6 NORMAL CHASSIS	2
5	ISD - 3.2TB SSD	4
6	BASE CHASSIS - NORMAL	1
7	TRANSCEIVERS/OPTIC/SFP+/SR/10GBE/2 GEN6	4
8	H500-2.2GHZ/10C/128G+15X8TB SAT/3.2TB	4
9	CABLE, ETHERNET, 40G, PASS, HALFREE, 3M	8
10	PWRCRD,1,TITAN,15F,L6-30P,250V NO AM/JAP	4
11	RACK ASSY TITAN-D 40U SINGLE PHASE	1
12	PROSUPPORT 4HR/MC HARDWARE SUPPORT	1
13	SEL-SUPERNA-EYEGLASS DR QUICK START	1
14	ONEFS PRODUCT	1
15	ONEFS CAPACITY LICENCE TIER 3 = CB	480
16	ONEFS BASE LICENCE TIER 3 = ID	4
17	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
18	ENTERPRISE ADV BUNDLE CAP T3 PER TB = CB	480
19	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
20	ENTERPRISE ADVANCED BUNDLE TIER 3 = ID	4
21	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
22	HDFS FOR ONEFS 0.00	4
23	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
24	SEL MAINT EYEGLASS DR MANAGER ENT 3YR	4
25	SEL EYEGLASS DR MANAGER ENTERPRISE VAPP	4
26	PD FOR ISILON ADVANCED BUNDLE	1
27	PD ADDON, ISILON ADD ONE NODE	3

D. DETAILS OF INSTALLED AND EXISTING SETUP

Item 1		
Sr.#	Description; Hardware Configuration	Qty
	Servers	(in Nos.)
1	HP ProLiant DL380 Generation 9	4
	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		
Item 2		
	Workstations	
2	HP Z840 Workstation (FF825AV)	15
	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	

	Item 3	
	Monitors	
3	2 x LED 24" IPS Display W Monitor Warranty:3/3/3 Warranty	30
	Item 4	
	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

	Item 5	
	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

	Item 6	
	Network Cabling for the above Servers and Workstation in the Quotation including the below items (Excluding Electrical or Civil Works)	1
6	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 Panel and 40 patch cable	

	Item 7	
	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