

TERMS OF REFERENCE (TOR)
FOR
HIRING MAINTENANCE AND
SERVICE CONTRACT FOR H/W OF
SDP SYSTEM



SYSTEM SERVICES GROUP
SEISMIC DATA PROCESSING CENTRE
EXPLORATION DEPARTMENT

TE # PROC-SERVICES/CB/EXPL-4262/2019

Objective

OGDCL intends to hire Maintenance and Service Contract for the H/W of its existing Seismic Data Processing System. Detailed Specification of the selected Hardware is attached at Table-A. The bidder should submit their offers keeping in view the technical requirements and other parameters as specified in this TOR.

The tender requirement includes, availing Maintenance and Service Support for H/W along with parts as a ***Complete Package*** on ***Turnkey basis***.

Scope of work

The scope of work consists of providing Maintenance and Service Support for H/W along with the parts for our existing Data Processing System. A visit to the site may be arranged as per request for prospective Contractors to ascertain the exact nature of work required to be carried out.

Maintenance and Service Support

The selected Contractor will provide Maintenance & Service (covering parts and labor both) for H/W of all the awarded items for a period of three (03) years on as and when required basis (rate running contract) which may be extended with mutual consents. The Contractor will be required to execute a Service level Agreement (SLA) with OGDCL to this effect. This will be binding for the contractor to rectify the fault within specified period of time.

The maintenance and Service Support shall be in accordance with the standard procedures as agreed through a contract between OGDCL and the successful Contractor. These services shall be provided to OGDCL from a local facility (Islamabad based) on a complete package basis available round the clock (24X7) and in compliance with other Maintenance and Service Terms and Conditions.

Proposals

The bidder are required to submit the Technical and Financial Proposals for the project in separate sealed envelopes under "Single stage two envelope bidding procedure".

Technical Proposal

Technical Proposal should provide the following information

- A brief company profile with years of relevant experience.
- Time line for rectification of H/W problem.
- At least five references of similar projects completed by the firm.
- Compliance with all parameters mentioned in Annex-A to Annex-C

Financial Proposal

- Financial proposal should consist of cost for the Maintenance and Service Support along with parts and labor of the items mentioned at table "A".
- Contractor may choose Group-A or Group-B or both, for bidding.

Documents establishing conformity to TOR

The bidder will furnish, as a part of its bid, the following documents establishing conformity to the TOR of all services and works, which is proposed to provide under the contract.

Statement of Compliance

- The bidder shall submit a clause-by-clause statement of compliance in the specified format with respect to all sections of this TOR
- The bidder's comments in the statement of compliance will correspond to the clause/sub clause to which they relate and will clearly and concisely state the bidder's position thereto. Words such as "noted" shall not be adequate and will be treated as "not complied".
- The bidder shall provide, to the satisfaction of OGDCL, documentary evidence showing its technical, financial, maintenance and service support capabilities to execute the contract.
- The bidder shall provide quotation of M & S charges against three (03) years schedule including labour and parts as mentioned in the Table-B
- The bidder may choose Group-A or Group-B or both for bidding.

Amount of Bid Bond

Bid Bond/Bid Security amounting to **PKR: 540,000/-** (Pak Rupees Five Hundred Forty Thousand Only) is to be attached/provided with the Technical bid. Please see Master Set of Tender Documents For Services for further details.

Payment Terms

Payment shall be made quarterly through cross cheque in 100% Pak Rupees against verified Invoices.

Bid Price

- i. Bid shall be inclusive of all taxes, duties, levies, charges etc., except Provincial Sales Tax (PST) / Islamabad Capital Territory (ICT) Tax on Services.
- ii. The prices should be quoted in PKR and shall remain firm & final throughout Contract period.

Note

The Master Set of Tender Documents For Services uploaded on OGDCL's website (www.ogdcl.com) is the integral part of this TOR.

Following is the link for Master Set of Tender Documents For Services:

<http://ogdcl.com/uploads/Master%20set%20of%20tender%20documents%20for%20uploading%20on%20OGDCL%20web%20as%20on%2002-01-2019.pdf>

Annex-A

Terms & Conditions-Bidders General Information

To be filled in by the Bidder

	OGDCL Requirements	Bidder Response	Compliance/non-compliance	Remarks
1.	Minimum Five (05) years experience of H/W services, to reputed organizations and Seismic Data Processing Centers.			
2.	Clientele list of at least Five (05) reputed companies with global presence.			
3.	Must have an established local office in Islamabad for the provision of Technical Services and Support/ May establish office after awarding contract.			
4.	Bidders must have vendor Support Certificate from the manufacturer.			

Annex-B

To be filled in by the Bidder

Terms & Conditions – Expert Services

	OGDCL Requirements	Bidder Response	Compliance/non-compliance	Remarks
1.	Experts of the contractor must have minimum five (05) years of related experience.			
2.	The contractor must have minimum five (05) trained experts for the awarded H/W items of M&S contract.			
3.	The Contractor should submit CVs and related experience of their experts along with the Technical Proposal.			

Terms & Conditions –Maintenance and Service Support

To be filled in by the Bidder

	OGDCL Requirements	Bidder Response	Compliance/non-compliance	Remarks
1.	Availability of Vendor's Support Portal for the queries and the rectification thereof.			
2.	Hardware and Services Support should be available round the clock and fault should be rectified within Seventy two (72) Hours.			
3.	In case of unsatisfactory performance. The quarterly payment of the Contractor may be stopped or the Bank Guarantee may be en-cashed in extreme condition.			
4.	Any new version/update/enhancement/package(s) for the firmware should be provided to the OGDCL, free of cost for three (03) years.			
5.	Four (04) preventive visits shall be made in a year. This will include service and performance tests of the awarded H/W as per manufacturer recommendations.			
6.	Corrective visit shall be made on call basis whenever required. This will include labor and parts both.			

Table-A

**Detail of the Hardware installed in Seismic Data Processing
Center for which M & S is required.**

Group A- IBM Hardware

Item	Quantity	Description
1.	56	IBM HS-22 Computer Nodes: 56 in 4 blades Chassis with integrated CISCO 4 Gb uplink switch Blade Cluster Architecture: Full Height Blade(scale able) Processor: Intel Xeon X5650 Dual six core 2.66Ghz/1333MHz/12Mb Ram: 48Gb ECC DDR3 1333 MHz VLP RDIMM HDD: 2X 600 Gb OPERATING System: Red Hat O/S with I/O and Management modules (QTY 4).
2.	2	IBM X 3550 M3 RACK SERVERS FOR DATABASE AND JOB MANAGEMENT: Processor: Intel Xeon X5650 six core 2.26 GHz/1066 MHz/12Mb RAM: 24GB ECC DDR3 1333MHz VLP RDIMM HDD: 4.8TB 10K RPM SAS Optical Drive: DVD R/W Operating System: Red Hat O/S Power Supply: 2x675W Redundant 220 volt AC Power supply 50Hz
3.	1	IBM X 3650 Rack Server for High Performance cartridge Drive : Processor: Intel Xeon E5520 single Quad core processor 2.26GHz/1066MHz/8MB RAM: 6GB ECC DDR3 1333MHZ LP RDIMM HDD: 600GB 10K RPM Optical Drive: DVD R/W Fiber Card: Emulex 4GB FC single port PCI-E HBA SCSI Card: Q logic (R) SCSI dual port PCIe HBA Operating System: CentOS along with PARALAN Switch

4.	2	IBM X 3650 RACK SERVERS for SCSI Tape Drives: Processor: Intel Xeon E5520 Single Quad core processor 2.26 GHz/1066MHz/8Mb RAM: 6GB ECC DDR3 1333MHz LP RDIMM HDD: 600GB 10K SCSI and other required adapters Optical Drive: DVD R/W Fiber Card: Emulex 4GB FC Single port PCI-E HBA SCSI Card: Q logic SCSI dual port PCIe HBA Power Supply: 2x675W Redundant 220 volt AC Power supply 50Hz Operating System: CentOS
5.	2	IBM X 3650 RACK SERVERS for plotters: Processor: Intel Xeon E5620 Single Quad core processor 2.40GHz/1066MHz/12Mb RAM: 8GB HDD: 600GB Optical Drive: DVD R/W Power Supply: 2x675W Redundant 220 volt AC Power supply 50Hz Operating System: CentOS Riser + Ikon PCI-X
6.	5	IBM X 3650 Based multiple Disk Array Subsystem NAS (Total Approx: 120 TB): Disk rack server system(total 120TB) extendable up to 220 TB ultra-high storage drives with EXP M2512. Processor: Intel Hex core X5650 processor 2.66GHz/12Mb RAM: 24GB HDD: 2x 600GB Rack storage enclosure: 24TB Operating System: CentOS
7.	2	IBM Enterprise class racking solution: 2x8 console Manger

Group A - DELL Hardware

Item	Quantity	Description
1.	2	DELL Display station: 1U 19" Flat panel console Kit with multi Burner Drive 1U Rack Dense integrated Design Display Color: 16.7 M color Max. Resolution: 1280 x1024 at 75Hz Pixel Pitch: 0.294 x301.056 Type: TFT active matrix Display Area: 376.32 x301.056mm Keyboard with integrated pointing device USB -KVM
2.	24	DELL T 7500 Precision Workstation (Tower) Processor: Intel Xeon E5620 2.4GHz Single Quad-core processor with 1066/12Mb 8Mb L3Cache RAM: 24GB HDD: 1.2TB 10K Keyboard mouse black Optical Drive: DVD R/W Graphic Card: Dual session fx4000 graphics board Memory: 2.0 GB Operating System: CentOS Voltage: 220v A/C 50Hz power plug "M" type
3.	48	DELL Display Monitors U3011 TFT 30 inch ultra-sharp widescreen digital flat panel Contrast ratio: 3000:1 Brightness: 370cd/m2 Response time: 8ms (gray to gray) Viewing angle: 1780/1780 Pixel pitch: 0.250 mm Connectivity: HDMI, DVI-D, HDCP, VGA, S-VIDEO Composite Video Max Res: 2560 x1600 Voltage: 220V A/C

Group A - CISCO Switches

Item	Quantity	Description
1.	4	CISCO Catalyst 3750 48 10/100/1000t Networking (Qty: 03) Networking Switch: 48 Ethernet ports 10/100/1000T Gigabit switch IBM 1754-HC1 (Qty: 01)

Group B - In-Row ACs (APC)

Item	Quantity	Description
1.	2	In-row air cooling system, ACRP 102 ,29 KW in-row, RP d x 600mm, air cooled, Condenser 2ec fan 11.1 KW/1c td 380/415V,3/50 Hz, humidify.value: 660 pounds/Hr, compressor type: reciprocating, horizontals, intake air: rear return, air flow:
2.	2	In-row air cooling system, ACSC 101,300mm, air cooled, self contained air cooled 200/240V 50Hz, 20(6.1 m) leak sensor extension cable, 1cx70mm 2 PVC/PVC copper cable, Compressor type: Rotary, air discharge pattern: horizontal in take air: rear

Group B - UPS (APC)

Item	Quantity	Description
1.	1	Uninterrupted Power Supply System (UPS). APC 16 KVA (Total 16x6=96 KVA) in dual Rack Model.APC PX 96 /160 KW .Input 3 Phase .Five wire (3PH+N+G) 400V phase to phase . 220 V Phase to neutral,50Hz LCD Display. On Line

Table-B**Service Charges for H/W M&S Support****Hardware Services****Tender Enquiry No.****Due Date:**

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

Sr #	Description of Services	Cost of Service (PKR)	Cost of Service for 3 Years(PKR)
1.	Maintenance and Service Support for the period of three (03) years		
1.1	H/W Maintenance & Service Support for each year GROUP-A		
	H/W Maintenance & Service Support for each year GROUP-B		
	TOTAL		

Overview of complete Configuration of Existing Data Processing System.

System Configuration

Summary:

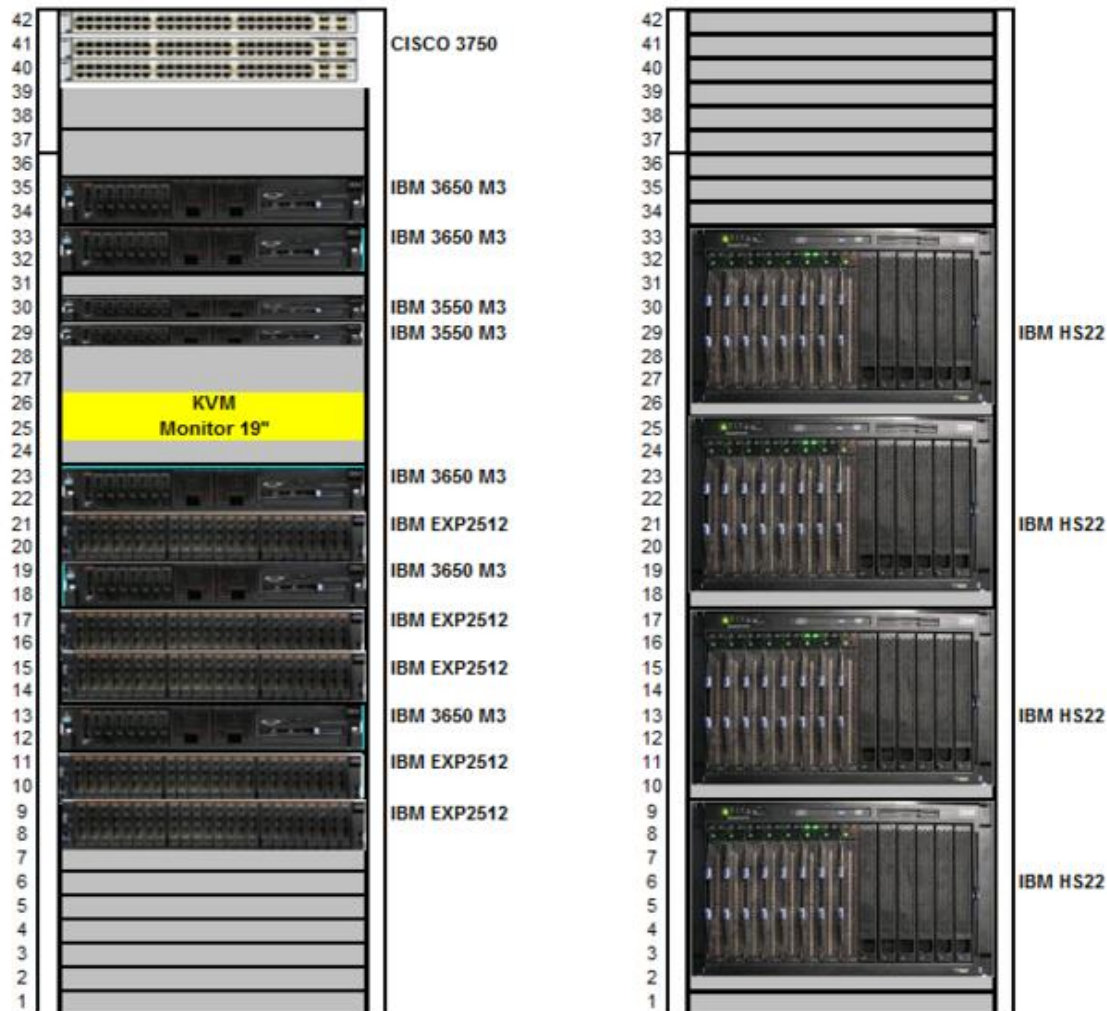
WesternGeco had provided OGDCL with (792 Cores) system in June 2012

Total Numbers of Cores **792**

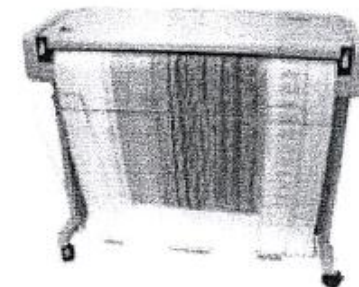
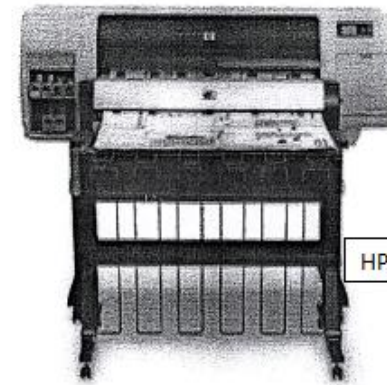
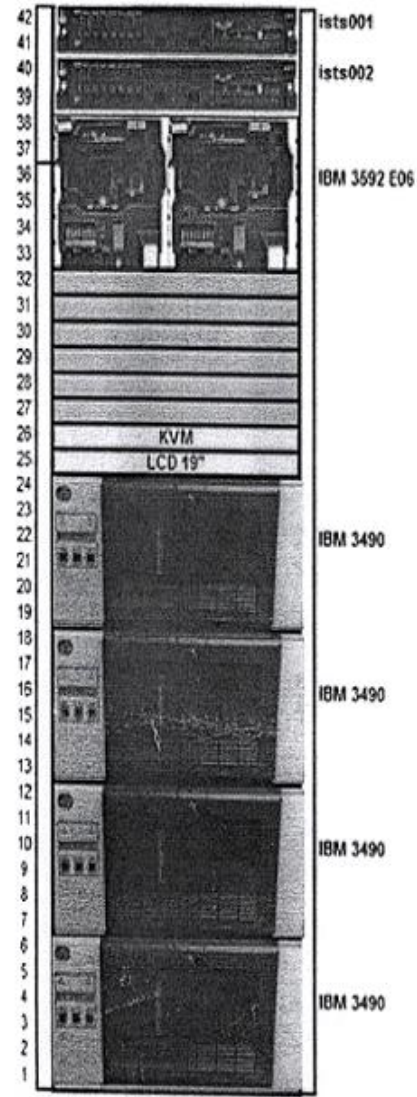
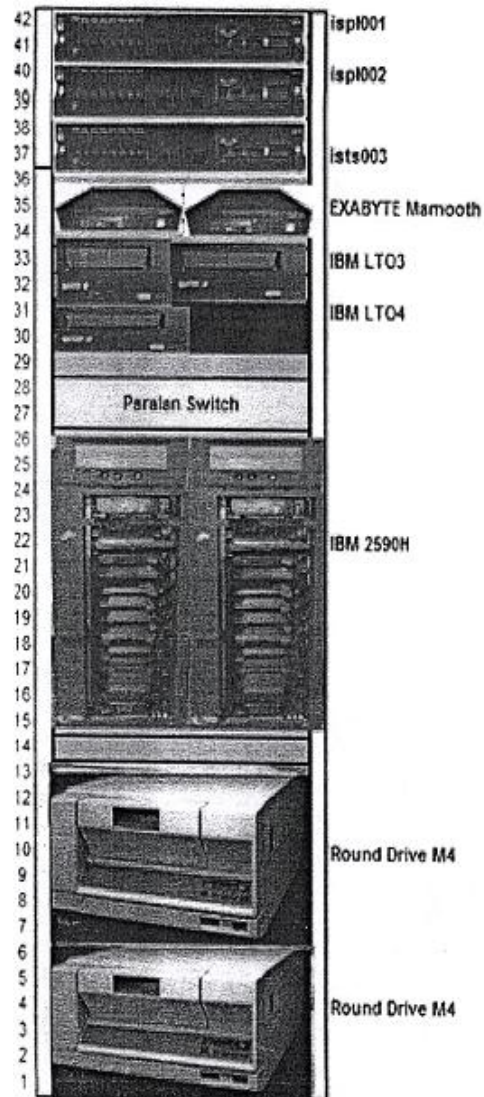
Omega Baseline **17.1EXT**

Oracle Version installed **12**

OGDCL Computer Area1



OGDCL Computer Area 2



Configuration Details:

System Configurations in the below Snap

Qty/Index	Service Tag / Serial Number	Vendor	Type	Model
56	HS22 switched E Chassis	IBM	8677	PFC
2	HS22 switched E Chassis	IBM	8677	PFC
2	X3550 M3 RACK SERVER	IBM	7944	PNH
5	X3650 M3 RACK SERVER(Disk server RES009A)	IBM	7945	PSN
5	X3650 M3 RACK SERVER(Tape Server TS012)	IBM	7945	PSP
5	EXP2512 12 DRIVE DISK TRAY (RDS010-1)	IBM	1747	HC1
2	IU 19" FLAT PANEL DISPLAY STATION IBM IU 19"	IBM	1723	19X
2	KVM Switch	IBM	1754	D1X
2	JAGUAR TAPE DRIVE	IBM	3592	E06
3	CISCO Switch 48 Ports	CISCO	48	3750
2	3590-H11	IBM	3590	H11
2	Round	M4	9-track	M4
4	3490E-F11	IBM	3490	F11
2	EXA - MAMOUTH	EXABYTE	8mm	Mamouth
2	LTO4	IBM	LTO	LTO4
1	LTO3	IBM	LTO	LTO3
1	Plotter	OYO	Thermal	624
1	Plotter	OYO	Thermal	636
1	Plotter Design Jet	HP	CQ106A	T7100
24	Workstations	DELL	Precision	T7500
48	LCD 30"	DELL	30"	3100