



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

Material : **HARDWARE SOLUTION FOR SAP HANA**

Due Date:

Tender Enquiry No: **PROC-LH/PT/SYS-18202**

Bid Bond Value : RS. 4,250,000/-

EVALUATION WILL BE CARRIED OUT ON FULL

Attachment(if any) : YES

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	Hardware Solution for SAP S/4 HANA (for 285,000 SAPS) as per TOR	1		Number					
2	Support Services & Warranty for 05 years as per TOR	1		Number					
3	Installation, Configuration & Training Services as per TOR	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: ON F.O.R BASIS I-9 BASE STORE, ISLAMABAD AS PER ATTACHED T.O.R PAYMENT TERMS: AS PER ATTACHED T.O.R. BID VALIDITY: 120 DAYS FROM THE OPENING DATE OF TECHNICAL BID.



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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 Annexure-A (Un-priced)	Technical Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Duly filled, signed and stamped Annexure-B	Technical Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Duly filled, signed and stamped Annexure-D	Technical Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Duly filled, signed and stamped Annexure-L on Company's Letterhead	Technical Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Duly signed and stamped Annexure-M on Company's Letterhead	Technical Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Duly signed and stamped Annexure-N 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 Annexure-A (Priced)	Financial Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Duly filled, signed and stamped Annexure-C	Financial Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Duly filled, signed and stamped Annexure-E	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) _____

Procurement of Hardware Solution for SAP S/4 HANA
Including Support Services

Terms & Conditions

Note: Bidders are requested to read this document carefully and provide complete information required in this T&C. All information required in the Vendor Qualification & Professional Staff details must be provided. OGDCL reserves the right to reject Proposals with in-complete or partial information.

1. OVERVIEW

Oil and Gas Development Company Ltd (OGDCL) is Pakistan's leading National E&P sector company, having operations at remote locations and fields in all the four provinces. The detailed information about the Company can be obtained from its website www.ogdcl.com

To cope with the growing business operations, the Company intends to engage a vendor for deployment, installation & configuration of hardware regarding SAP solution to bring both simplicity and productivity together with providing an integrated and secure automation environment. This hardware deployment project will be awarded on a turnkey basis, where the selected firm will be responsible for supply, installation, configuration and deployment of the new compute and related infrastructure.

Vendors having required expertise, resources and similar work experience are invited to submit their proposals as per detailed requirements given in this T&C.

2. INTRODUCTION TO WORK

Bids are invited for Supply of Hardware, OS Licenses, installation, configuration & support of the following components: (The Hardware should be SAP HANA Certified)

1. S/4 HANA Production Server (Application & DB) (VM's)
2. DEV And HA For S/4 HANA Production (VM's)
3. BO/PO/ S4 HANA Development (VM's)
4. BO/PO Production (VM's)
5. DR SITE – S/4 HANA Production Server / PO Production (VM's)
6. Backup Server (D2D / Tape)
7. SAN FC 16G (Storage Area Network)
8. 42U Rack With all Accessories
9. SAN Switches. (5 Years Warranty)
10. VMware Essentials Plus for 6 CPU 5 Years 24x 7 Support
11. vCenter Server Essentials 5 Years 24x 7 Support
12. Enterprise Level Backup Solution (Capacity Based including SAP HANA DB support)
13. On-Site all Installation & Configuration Services included, as per SAP HANA Best practices
14. Hardware & Software Training

3. PROPOSALS

The firms are required to send Financial Proposal as well as Technical Proposal for this project in separate sealed envelopes.

4. TECHNICAL PROPOSAL

Technical Proposal should be submitted covering the following details;

- i. Brief about the Firm, its support facilities with years of service in Pakistan.
- ii. Details about the hardware solution provided as per Annex I
- iii. Details of services and training as per Annex II
- iv. Details regarding Mandatory Requirements & Technical Evaluation Criteria as per Annex- III
- v. Expertise available with brief CVs of the professionals in Pakistan as per Annex IV

- vi. Experience of working in large public sector organization.
- vii. Provide the detailed mechanism of annual technical support.
- viii. Schedule of Supply, installation, configuration, testing and commissioning of the proposed solution.

5. DURATION OF PROJECT:

The delivery of hardware should be made within 90 (Ninety) days and project should be completed in 60 days (Sixty days) after delivery of Hardware. The 05 years support services period will be started after completion/signing off the project. Bidder is required to furnish fortnightly progress reports of the activities under taken in due course of time.

6. PAYMENT TERMS:

- i. The 60% of total project cost (excluding support services cost) will be paid after delivery of hardware, while remaining 40% payment (excluding support services cost) will be made after completion of project including Installation/Configuration, Testing & Training.
- ii. For Support services the payment will be made on quarterly bases, after performance of services. The support period will be started after completion/signing off the project.

7. PROJECT DELIVERABLES:

- i. New Topology Detailed Diagram
- ii. 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
- iii. Detail Project Plan/Project Schedule
- iv. Configuration Manual
- v. Operation Manual
- vi. SOPs for all installation & configurations
- vii. Standard Tagging/Labeling
- viii. Training manuals
- ix. Enterprise level Backup Plan
- x. Reconfiguration of IT-Operations dashboard after implementation of new devices.
- xi. User Manual

8. IMPLEMENTATION & TRAINING:

The selected bidder will be responsible for complete deployment & implementation of the new hardware. The Bidder will also provide administrator level trainings (pre and post deployment) by authorized trainers for nominated persons/employees of the company. The bidder will also be responsible for technology transfer of the newly deployed hardware for any future enhancements/modification/customization etc.

9. TESTING OF NEW HARDWARE:

In testing phase, the bidder is required to test newly configured hardware from every aspect of testing to ensure that all devices works as committed & meets all available standards.

10. DEPENDENCIES & RISKS:

The bidder is required to submit dependencies & risks involved in project proposal. The bidder can visit the existing data centre of OGDCL before submission of proposal.

Annex I

Hardware Specifications

TECHNICAL & FUNCTIONAL REQUIREMENTS

The proposed solution should meet the following minimum specifications:

Sr. No.	Description	Qty.
1	<p>S/4 HANA Production Server (2x VM's Application & DB) <i>(SAP HANA Certified)</i></p> <ul style="list-style-type: none">• Processor: 2x Intel® Xeon® Platinum 8276 28C or equivalent Power Series• CPU Sockets: 04• Memory Support: 4TB or Higher• ECC Memory: (1TB) 16x 64GB (1x64GB) 4Rx4 DDR4-2933 LR ECC or equivalent to power series• Hard Disk Drive: 2x 600GB 10K 512e 12G SAS (For OS)• RAID Controller: RAID 0, 1, 10, 5, 50• Optical Drive: DVD Writer• Display Card: As per manufacturer standards• FC & Network Adapter: 2x 16Gbps FC (Single Port) for SAN Connectivity 2 x Port Gigabit LAN• 1x SUSE Linux Enterprise Server for SAP 1-2 Sockets Unlimited VM's OEM or OLP (5Year 24x7 L3 Remote Support)• Chassis: 2U/4U Rack Mountable with Rack Rails and Mounting Kit• Power Supply: Redundant Power Supply as manufacturer's standard• Warranty & Support: 5 Years (OEM) Onsite Warranty & support	1
2	<p>QAS And HA For S/4 HANA Production (4x VM's App & DB) <i>(SAP HANA Certified)</i></p> <ul style="list-style-type: none">• Processor: 2x Intel® Xeon® Platinum 8276 28C or equivalent Power Series• CPU Sockets: 04• Memory Support: 4TB or Higher• ECC Memory: (1.5TB) 24x 64GB (1x64GB) 4Rx4 DDR4-2933 LR ECC or equivalent to Power Series• Hard Disk Drive: 2x 600GB 10K 512e 12G SAS• RAID Controller: RAID 0, 1,10, 5, 50• Optical Drive: DVD Writer• Display Card: As per manufacturer standards• FC & Network Adapter: 2x 16Gbps FC (Single Port) for SAN Connectivity 2x Port 10 Gigabit LAN 2 x Port Gigabit LAN• 1x SUSE Linux Enterprise Server for SAP 1-2 Sockets Unlimited VM's OEM or OLP(5Year 24x7 L3Remote Support)• Chassis: 2U/4U Rack Mountable with Rack Rails and Mounting Kit• Power Supply: Redundant Power Supply as manufacturer's standard• Warranty & Support: 5 Years (OEM) Onsite Warranty & support	1

3	<p>BO / PO / S4 HANA (Development) (4x VM's) <i>(SAP HANA Certified)</i></p> <ul style="list-style-type: none"> • Processor: 2x Intel® Xeon® Platinum 8276 28C or equivalent Power Series • CPU Sockets: 04 • Memory Support: 4TB or Higher • ECC Memory: (1TB) 16x 64GB (1x64GB) 4Rx4 DDR4-2933 LR ECC or equivalent to Power Series • Hard Disk Drive: 2x 600GB 10K 512e 12G SAS • RAID Controller: RAID 0, 1, 10, 5, 50 • Optical Drive: DVD Writer • Display Card: As per manufacturer standards • FC & Network Adapter: <p>2x 16Gbps FC (Single Port) for SAN Connectivity 2x Port 10 Gigabit LAN 2x Port Gigabit LAN</p> <p>1x SUSE Linux Enterprise Server for SAP 1-2 Sockets / Unlimited VM's OEM or OLP (5Year 24x7 L3 Remote Support)</p> <ul style="list-style-type: none"> • Chassis: 2U/4U Rack Mountable with Rack Rails and Mounting Kit • Power Supply: Redundant Power Supply as manufacturer's standard • Warranty & Support: 5 Years (OEM) Onsite Warranty & support 	1
4	<p>BO / PO Production (2x VM's) <i>(SAP HANA Certified)</i></p> <ul style="list-style-type: none"> • Processor: 2x Intel® Xeon® Platinum 8276 28C or equivalent to Power Series • CPU Sockets: 04 • Memory Support: 4TB or Higher • ECC Memory: (768GB) 12x 64GB (1x64GB) 4Rx4 DDR4-2933 LR ECC or equivalent to Power Series • Hard Disk Drive: 2x 600GB 10K 512e 12G SAS • RAID Controller: RAID 0, 1, 10, 5, 50 • Optical Drive: DVD Writer • Display Card: As per manufacturer standards • FC & Network Adapter: <p>2x 16Gbps FC (Single Port) for SAN Connectivity 2x Port 10 Gigabit LAN 2x Port Gigabit LAN</p> <p>1x SUSE Linux Enterprise Server for SAP 1-2 Sockets / VM's OEM or OLP (5Year 24x7 L3Remote Support)</p> <ul style="list-style-type: none"> • Chassis: 2U/4U Rack Mountable with Rack Rails and Mounting Kit • Power Supply: Redundant Power Supply as manufacturer's standard • Warranty & Support: 5 Years (OEM) Onsite Warranty & support 	1

5.	<p>DR SITE – S/4 HANA Production Server / PO Production (3x VM's)</p> <ul style="list-style-type: none"> • Processor: 2x Intel® Xeon® Platinum 8276 28C or equivalent to Power Series (SAP HANA Certified) • CPU Sockets: 04 • Memory Support: 4TB or Higher • ECC Memory: (1TB) 16x 64GB (1x64GB) 4Rx4 DDR4-2933 LR ECC or equivalent to Power Series • Hard Disk Drive: 2x 600GB SAS with 15K RPM 12Gbps • Hard Disk Drive: 6x SAS 12G 1.8TB 10K 512e • RAID Controller: RAID 0, 1, 1E, 10, 5, 50 • Optical Drive: DVD Writer <p>• Display Card: As per manufacturer standards</p> <ul style="list-style-type: none"> • Network Adapter: 2x Port 10 Gigabit LAN 2x Port Gigabit LAN <p>1x SUSE Linux Enterprise Server for SAP 1-2 sockets / Unlimited VM's OEM or OLP(5 Years 24x 7 Remote Support)</p> <ul style="list-style-type: none"> • Keyboard / USB Mouse Ports: As per manufacturer standards • Chassis: 2U/4U Rack Mountable with Rack Rails and Mounting Kit • Power Supply: Redundant Power Supply as manufacturer's standard <p>• Warranty & Support: 5 Years (OEM) Onsite Warranty & support</p>	1
6.	<p>Backup Server (D2D / Tape)</p> <ul style="list-style-type: none"> • Processor: 2x Intel® Xeon® Gold 8C • CPU Sockets: 02 • ECC Memory: (128GB) 8x 16GB (1x16GB) 4Rx4 DDR4-2933 LR ECC or equivalent • Hard Disk Drive: 8x SAS 12G 1.8TB 10K 512e (OS and Disk To Disk Backups) • RAID Controller: RAID 0, 1, 10, 5, 50 <p>• Services for integration of existing IBM 3200 (With LTO-6) Tape Library.</p> <ul style="list-style-type: none"> • Display Card: As per manufacturer standards • Network Adapter: 2x Port 10 Gigabit LAN 2x Port Gigabit LAN <p>1x Windows Server 2019 Standard with Downgrade 2016 Std. Kit</p> <p>Keyboard / USB Mouse Ports: As per manufacturer standards</p> <ul style="list-style-type: none"> • Chassis: 2U/4U Rack Mountable with Rack Rails and Mounting Kit • Power Supply: Redundant Power Supply as manufacturer's standard <p>Warranty & Support: 5 Years (OEM) Onsite Warranty & support</p>	1
7.	<p>SAN FC 16G (Storage Area Network) (SAP HANA Certified)</p> <p>4x 16Gbps FC Ports per Controller (8x Ports)</p> <p>128GB Cache (64GB Per Controller)</p> <p>Minimum 250,000 IOPs or Above</p> <p>Supported Capacity: 8,000TB or Above</p> <p>Useable Storage Space: 19TB (RAID-5) With 4x Hot Spares.</p> <p>Disk Type: 1.8TB 10k SAS 12Gbps 2.5"</p> <p>Warranty & Support: 5 Years (OEM) Onsite Warranty & support 24x 7</p>	
8.	<p>42U Rack (OEM Branded) With all Accessories</p> <p>OEM PDU Redundant (as per proposed equipment)</p> <p>Preferred OEM Pre-Assembled Including all Cables (LAN, FC, KVM & Power).</p> <p>Minimum 17" LED Console With Keyboard & Touch Pad (International English)</p> <p>16x Ports Digital KVM switch.</p>	1

9.	SAN Switches. (5 Years Warranty) Fiber Channel 24x 16Gbps Ports, 12x Active Ports per Switch.	2
10.	VMware Essentials Plus for 6 CPU 5 Years 24x 7 Support or Enterprise class virtualization software as per proposed hardware	2
11.	vCenter Server Essentials 5 Years 24x 7 Support or Enterprise class virtualization software as per proposed hardware	2
12.	Enterprise Level Backup Solution with 07TB Capacity License, including following backup scope. <ul style="list-style-type: none"> • Windows Servers • Linux VM's • HANA DB • Microsoft Exchange Server • DB2, ORACLE, SQL etc. 	1
13.	On-Site all Installation & Configuration Services , as per SAP HANA Best practices	1
14.	Hardware & Software Training	1

Annex II

Support Services & Training

Warranty:

All quoted hardware must have 05 years complete warranty including parts and labour, warranty/support services period will be started after the installation, configuration, and testing.

Software Licenses/Subscriptions:

All quoted hardware/software licenses/subscriptions should be valid for 05 years.

Services:

The following services shall be provided and the selected firm will also be required to provide maintenance and support services for a period of 05 years.

1. **Server Installation, Configuration & Backup / Restore Mechanism:**
 - a. Installation, configuration and customization of provided hardware as per the SAP best practices
 - b. Installation and configuration of SUSE Linux as per the SAP best practices
 - c. Creation of HANA virtual machines as per the SAP best practices.
 - d. Testing and hand over to the OGDCL staff
 - e. The selected firm will be responsible for developing an enterprise level backup and restore mechanism along with integration of existing tape library. The firm will also provide integration of HANA DB with Enterprise Level Backup Solution and SAP HANA Cockpit dash board for monitoring & management of all backups.
2. **Training Services:**

Vendor to provide administrator level training for 06 OGDCL IT staff for all provided solutions including enterprise level backup solution.

Annex III

Mandatory Requirements & Technical Evaluation Criteria

Note: Bidders are advised to carefully read the Mandatory Requirements, Evaluation Criteria and provide complete information in each category in their Technical Proposal. Incomplete or partial information will not be weighed up.

Mandatory Requirements

1. SECP Registration
2. Registered business in Pakistan with an NTN and GST
3. Presence at Islamabad/ Rawalpindi
4. Manufacturer authorization form for all products
5. Agreement for subcontracting, if intends to subcontract the Project
6. In-service date of equipment and identify both End of service and End of life.

Technical Evaluation Criteria

S. #	Description	Allocated Score	Remarks
1	Company profile Years of experience in infrastructure deployment.	25	Firm having 5 year experience will get 20 marks. For each additional one year experience, 01 mark will be given, up to maximum Of 25 marks.
2	Average Turnover for last 03 Years Pak Rupees in Million Please enclose last 03 years audited financial statements	15	Firm/OEM with average turnover of Rs. 200 Million will get 11 marks. For each additional 50 Million turnover, 01 mark will be given, up to maximum of 15
3	Professional Experience List of Similar Nature Projects (at least 5) including supply of hardware and support services. Valid documentary proofs/ Certificates must be attached.	35	Firm having 5 projects will get 25 marks. Firms having more than 5 projects will get prorated score, up to maximum of 35 marks
4	Project team and Certified staff for project design and delivery as under: - SUSE /NOVELL Certified Engineer - OEM Certified Hardware Engineer	25	Bidder with full compliance will get 25 marks. (12.5 + 12.5)
	Total Score	100	
	Qualifying Score	75	70% marks are mandatory for each above Serial No

Annex IV

Professional Staff Details

The bidder shall provide Resumes of the following staff:

S. No	Role	Experience (Yrs)	Certification	No.
1	Hardware Specialist	10	Any relevant/ OEM related	01
2	Project Manager	05	PMP	01
3	Technology Architect	10	Any relevant	01
4	Support Engineers	05	Any relevant	05
5	Support Manager	05	Any relevant	01

Financial Bid Evaluation Criteria

Only technical qualified bidders will be considered for financial evaluations. Financial bids will be evaluated on full consignment wise.