



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

Material : **DESIGN, MANUFACTURING & SUPPLY OF SKID MOUNTED SOUR WATER DEGASSER INCLUDING INSTRUMENTATION (COMPLETE PACKAGE)**

**Due Date:**

Tender Enquiry No: **PROC/LF/PT/17793/19**

Bid Bond Value : **RS.600,000/-**

Attachment(if any) : **YES**

**EVALUATION WILL BE CARRIED OUT ON MAIN ITEM**

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	DESIGN, MANUFACTURING AND SUPPLY OF SKID MOUNTED SOUR WATER DEGASSER INCLUDING INSTRUMENTATION (COMPLETE PACKAGE) AS PER ATTACHED TOR.	1		Number					
2	02 YEAR SPARES FOR THE PACKAGE (ITEM WISE LIST WITH UNIT COST TO BE PROVIDED)	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.
- BID VALIDITY 120 DAYS FROM TECHNICAL BID OPENING.DELIVERY IN 06 MONTHS FROM LPO ISSUE TO DAKHNI FIELD. PAYMENT TERMS AS PER CLAUSE NO.29 OF SOR/TOR.

Discount (if any) shall only be entertained on Schedule of Requirement of Bidding Document (Financial Proposal). If the discount is mentioned elsewhere in the bid, the same shall not be entertained.



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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) \_\_\_\_\_

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**Design, Manufacturing and Supply of Skid Mounted Sour Water Degasser Including Instrumentation**  
**(Complete Package) for Dakhni Plant**

Degassers is to be designed for removal of entrained gases from produced water, including H<sub>2</sub>S and corrosive gases. Supplier/ bidder/ manufacturer is required to size the vessel, select the instrumentation, procure the material, perform mechanical/ process design of vessel and piping, fabricate, paint, test and ship to Dakhni Gas Processing Plant and give the best performance guarantee.

**1- Design Basis :**

Design Code:	According to ASME VIII DIV 1
U stamp:	Yes
Orientation	Horizontal
Operating Pressure	100 Psi
Design Pressure	As per ASME Code
Inlet Gas Flow	2~4 MMSCFD
Liquid Handling Capacity	1800 bbl/day
Operating Temperature	135 °F
Stress relieving	As per ASME code
Radiography	100%
NACE MR 0175	Yes
Recommended Material Shell/Heads	SA 516 Gr 70 N
Recommended Material Nozzles/flanges	SA-106/105
Corrosion Allowance	3.5 mm
Joint efficiency (shell/head)	100%
Service	Sour water
Hazardous area	Zone 0, Gas Group IIA, Temperature Class T5
Content	3-Phase (gas, oil, water)
PWHT	As per ASME code
Support	Saddle
Internal Coating	N/A

Gas Composition

C1	Mol% 80.62
C2	Mol% 4.31

C3	Mol% 1.63
iC4	Mol% 0.38
nC4	Mol% 0.49
iC5	Mol% 0.21
nC5	Mol% 0.12
nC6	Mol% 0.40
N2	Mol% 0.37
CO2	Mol% 4.32
H2S	Mol% 7.15
Calorific value	Btu/ft <sup>3</sup> 1041.59

#### Produced Water Composition

pH	6.56
TDS	7600
Chloride	51048
Sp Gravity	1.050
Iron	1.11

Note: Monitoring & Controlling of Sour Water Degasser Parameter i.e. Level, Temperature, Pressure & Flow along with PLC (having display & 3<sup>rd</sup> Party Communication with Main DCS) is in Bidder Scope.

#### TERMS OF REFERENCES:

1. The vessel should be horizontal skid mounted with all necessary required instrumentation and mechanically.
2. Bidder/ Packager will be responsible for design, fabrication & Supply of Sour Water Degasser as per provided parameter in accordance to ASME code (U stamp).
3. Design should be based on corrosive environment with NACE Compliance material.
4. Bidder should provide the P&ID, Isometric of package. The brand (Worldwide Renowned), country of origin and specific data sheet of instrumentation must be provided with the technical bid otherwise bid will not be further evaluated.

#### 1. Applicable code:

- API Specification 12J.
- ASME Boiler and Pressure Vessel Code, Section VIII, Division I.
- American Society for Testing and Materials (ASTM).
- ASME IX, Welding and Brazing Qualifications.
- ASME V, Non-Destructive Testing.
- ASME II, Material Specifications.
- ASME B16.5 - Pipe Flanges and Flanged Fittings.

- ASME B31.8 Natural Gas Piping.
- ASME B31.3 Liquid Piping.
- ASME B16.20, Ring Joint Gaskets and Grooves for Steel Pipe Flanges.
- N.A.C.E. Standard MR-0175 / ISO Standard 15156.

5. Instrumentation shall be certified by the following standards and NACE complied.

- BASEEFA British Approvals Service for Electrical Equipment.
- CENELEC Comité Européen de Normalisation Electro technique.
- PTB Physikalish - Technische Bundesanstalt.
- CSA Canadian Standards Association.

6. Bidder to submit preliminary design data like material of shell, origin of material, size of degasser, Level Gauges, isolation valves etc. with Technical bid.

7. Manufacturer should have at least 10 years (2009~2019) of experience for design, manufacturing/fabrication of Pressure Vessels. Manufacturer having less than 10 years of experience will not be considered for evaluation.

8. Material should be of American / European / Japanese origin and MTC to be provided during fabrication phase.

9. Only 'U' stamp authorized manufacture/bidder can participate. Manufacturer should have valid U (ASME) stamp certification since last 05 years (2015 ~2019). If the certification status is in progress or under revalidation on the date of bid submission, is not acceptable. The required Sour Water Degasser should be manufactured at the works of U-stamp certified manufacturer only.

10. Verifiable documents, unpriced copy of contract / purchase order of U stamped pressure vessel etc. with name and full contact details of clients to be provided in technical bid

11. Complete foundation details / design to be provided. Civil drawings for construction of foundation will be in bidder scope and to be provided provided 02 months prior to shifting of Sour Water Degasser. Preparation of foundation is in OGDCL scope.

12. As designing in bidder scope so if any design fault / system malfunctioning observed at the stage of FAT / SAT and during commissioning, full rectification and replacement will be in bidder scope.

13. All the piping, nozzles, valves, all studs for connection, gaskets etc. up to battery limit is in bidder scope.

14. General Arrangement Drawings, detailed Engineering drawing and design calculation (02 sets of Hard/ Soft Copies) to be provided with supply.

15. **If bidder/ packager required any clarification, it should be cleared prior to 02 weeks from bid opening date.**

16. Bidder/manufacture will provide complete details of origin with the technical bid and MTC of material should be submitted prior to its import for approval.

17. Certificate should be submitted that the installed instrumentation is brand new and their model and spares will not obsolete in next 10years.

18. Shipment of Sour Water Degasser Package from manufacturer works to OGDCL Dakhni plant Tehsil Jand is in bidder scope.
19. Execution Plan of Project should be submitted along the technical bid.
20. Contractor to provide complete time-activity chart for all the jobs including purchase of material and onsite services within 04 weeks after issuance of PO.
21. Stage inspections will be carried out at manufacturer works by OGDCL representative at following stages;
  - a. After receipt of material at manufacturer works.
  - b. After completion of fabrication / welding jobs.
  - c. Hydro testing / FAT.
22. Stage inspection and hydrostatic tests must be in accordance with the ASME Code shall be carried out. Such inspection reports/certificates shall be submitted to OGDCL along with NDT records.
23. Bidder to confirm Guarantee / warrantee for a period of 01 year after installation or 18 months after shipment, whichever completes earlier.
24. Painting of Degasser, as per standard / code requirement is in bidder scope.
25. Man-way, Inlet & Outlet Flange Gaskets for commissioning and one set as spare should be provided.
26. Bidder/ Packager will supply all studs with 02 nuts for connection within battery limits with Flouropolymer coated.
27. OGDCL will provide crane only at Dakhni for unloading but transportation for delivery of Degasser to Dakhni is in bidder scope.
28. **Bidder/ packager will provide assistance in installation and commissioning of package at Dakhni Plant.**
29. **Payment Terms:**
  - I. 10% Advance against Bank Guarantee.
  - II. 60% Payment after successful inspection, testing at manufacturer works and delivery at site.
  - III. 30% after successful testing/commissioning at OGDCL site.
30. **Delivery time:** 06 months (180 Days) after placement of order.

## Technical Evaluation Criteria

Sr. #	Evaluation Item	Max. Marks / Calculations	Max. Marks	Min. Qualifying Marks	Remarks	Remarks from Bidder
1	Manufacturer Experience	15 Years (30 Marks) 10 Years (20 Marks) Less Than 05 Years= (Zero Marks)	30	20	(Bidder should provide evidence)	
2	Complete compliance of TOR	20 Marks	20	20	Bidder to confirm the compliance with separate letter.	
3	Previous Purchase Order for supply of U stamped Pressure Vessel between 2015 ~2019	Supply of 10 Pressure Vessel (20Marks) Supply of 05 Pressure Vessel (10 Marks) Less than 05 Zero Marks	20	10	Provide the purchase orders with their details	
4	1. ASME U Stamp 2. ASME R Stamp	15 Marks 05 Marks	20	15	Bidder/ Manufacturer should submit the valid copy of certificates. If the certificate status is in progress, no marks shall be given.	
5	ISO 9001 Certification. PEC Registration	05 05	10	10	Bidder/ Manufacturer should submit the valid copy of certificates. If the certificate status is in progress, no marks shall be given.	
			100	75		

### **BIDDER/ MANUFACTURER MUST OBTAIN MINIMUM QUALIFYING MARKS IN EACH CATEGORY.**

Note: For strict compliance bidder should clarify each point before submission of tender document through email or can visit Dakhni Gas Processing Plant.

**Note: Financial evaluation will be against Sr#01 only**