



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

Material : **DESIGN,SUPPLY,INSTALLATION,COMMISSIONING & TESTING  
OF AUXILIARY BOILER ALONG WITH BOILER FEED WATER  
PUMPS.**

**Due Date:**

Bid Bond Value : RS.500,000.00

Attachment(if any) : YES

Tender Enquiry No: **PROC/LF/PT/17207-B**

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	Auxillary Boiler along with Boiler Feed Water Pumps as per attached specifications and 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 IN 06 MONTHS ON FOR DAKHNI PLANT.30% ADV AGST BANK GUARANTEE,30% AFTER DELIVERY @ DAKHNI,40% AFTER COMPLETE PACKAGE PERFORMANCE TEST @ DAKHNI

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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## SPECIFICATIONS & TERMS OF REFERENCES



Design, Manufacturing and Supply of Auxiliary Boiler along with Boiler Feed  
Water Pumps for Dakhni Plant

OGDCL intends to procure Auxiliary Boiler package along with Boiler Feed Water Pumps on turnkey basis. The packaged unit will be installed and operated at Dakhni Gas Processing Plant, Jand – District Attock. Auxiliary Boiler is required for cold start only. This Boiler will be utilized in case of shutdown of main boiler of Sulphur Recovery Unit. Boiler Feed Water will be available at normal ambient temperature. The renowned manufacturers having experience of design, procurement, installation and supply of similar units are encouraged to participate in the request for bid. The specifications and terms of reference for the project are as under:

**1- SPECIFICATIONS:**

AUXILIARY BOILER:

Net Capacity:	04 TPH (Tons per hour)
Outlet Steam Pressure:	50-60 Psig
Design:	According to ASME (S stamp)
Fuel Type:	Natural Gas
Boiler Type:	Fire Tube
S-stamp:	Yes, Only for Shell
NACE Compliance:	Yes, NACE MR 0175 (Only for Tubes, interconnecting piping of pump and boiler, flanges, pipe fittings extruded from boiler)
Service:	Intermittent

BOILER FEED WATER PUMPS:

Tag #	P-5001 A/B
Capacity	As per Boiler requirement
Discharge Pressure	150 Psig
Operating Temperature (min/max)	50 °F / 220 °F
Type:	Horizontal

Fluid:	Boiler Feed Water
Motor protection:	Explosion Proof
Pump with motor Quantity:	02 Nos.

Note:

- a. Economizer is not required as this auxiliary boiler will be in operation after shutdown of main boiler of sulphur recovery unit.
- b. Existing Feed Water Tank will be utilized.
- c. Motor Control Center (MCC) Panel is not required.
- d. Chemical Dosing System is not required as it is already available at site.

## 2- TERMS OF REFERENCES:

- i. Design, Supply, installation, commissioning & testing of Auxiliary Boiler is in bidder scope in accordance to ASME code (S stamp).
- ii. Design should be based on corrosive environment with NACE Compliance material.
- iii. Manufacturer should have at least 07 years of experience for design, manufacturing/fabrication of boilers. Manufacturer having less than 07 years of experience will not be considered for evaluation.
- iv. Manufacturer should have supplied at least 03 units of boilers within Pakistan. Manufacturer having less supply of boilers will not be considered for evaluation.
- v. Only 'S' stamp authorized manufacture are required. Manufacturer should have valid S (ASME) stamp certification. The required auxiliary boiler should be manufactured at the works of S-stamp certified manufacturer only.
- vi. Verifiable documents, unpriced copy of contract / purchase order etc with name and full contact details of clients to be provided in technical bid so as to verify the experience, previous supply and S stamp certification.



- vii. The supply of boiler feed water pumps is also in bidder scope. The pumps should be supplied from well reputed manufacturer having atleast 10 years of experience. Complete details of pumps with full introduction of manufacture to be confirmed in technical bid. Pump manufacturer having less than 10 years experience will not be considered for evaluation.
- viii. The piping arrangement between pumps and Auxiliary boiler is also in bidder scope.
- ix. Supply and installation of Insulation and refractory is also in bidder scope.
- x. Bidder to submit preliminary design data like quantity of tubes, material of tubes, origin of tubes & shell, size of boiler, electrical / instrument data, burner detail etc. with Technical bid.
- xi. The auxiliary boiler should be supplied as complete package (with instrumentation and skid) in all respect.
- xii. Complete foundation details / design to be provided, 02 months prior to shifting of boiler. Preparation of foundation is in OGDCL scope.
- xiii. 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.
- xiv. Keeping in view the size of Auxiliary Boiler, proper platforms with cage access ladder to be provided.
- xv. Installation / Erection, commissioning and Performance test of 72 hrs, is in the bidder's Scope.
- xvi. Boiler skid should be suitable for handling with mobile crane and/or other mode of lift, using a single point lift at the construction site, where it is necessary to use special lifting beams, spreader bars, slings, shackles, etc. these shall be provided by bidder for installation purpose.
- xvii. Operational & Maintenance manual, Spare parts manual, General Arrangement Drawings, P&ID, Loop Diagram, Electrical Wiring Diagram, Cause & Effects

- sheets, Electrical & Instrumentation data sheets and foundation drawing (02 sets of Hard Copies) to be provided with supply.
- xviii. Bidder/manufacture will provide complete details of origin and MTC of Tubes prior to its import for OGDCL approval. The tube manufacturer should be American, European or Japanese brand. The tubes should be seamless without any joint.
- xix. Transportation of Boiler Package from manufacturer works to OGDCL Dakhni plant Tehsil Jand is in bidder scope.
- xx. 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.
- xxi. Stage inspections may be carried out at manufacturer site by OGDCL representative(s) and bidder will inform to OGDCL, at following stages;
- After receipt of material at manufacturer works.
  - After completion of fabrication / welding jobs.
  - Hydro testing / FAT of Control System.
- xxii. Stage inspection and hydrostatic tests in accordance with the ASME Boiler Code shall be carried out. Such inspection reports/certificates shall be submitted to OGDCL along with NDT records.
- xxiii. Bidder to confirm Guarantee / warrantee for a period of 01 year after installation or 18 months after shipment, whichever completes earlier.
- xxiv. Painting of Boiler Shell, as per standard / code requirement is in bidder scope.
- xxv. Bidder to quote 02 years operational spare parts for Boiler Package and Boiler Feed Water Pumps Separately. It will be not part of financial evaluation. OGDCL will select the parts from list.
- xxvi. OGDCL will provide crane only at Dakhni for unloading but transportation for delivery of boiler to Dakhni is in bidder scope.
- xxvii. Final inspection also includes the Hydro testing & FAT of Control System / PLC / Instrumentation at manufacturer works.



- xxviii. Bidder will provide all relevant documents required by Boiler Inspector for the registration of boiler.
- xxix. Performance test will be carried out at OGDCL site to confirm the design parameters.

### **3- Electrical & Instrumentation:**

The boiler manufacturer will ensure to install electrical & instrumentation related items from well reputed manufacture having at least (07) years of experience and international certification. Complete details of manufacture and instrumentation details to be provided in technical bid including the following.

- i. Main Control System (PLC Based).
- ii. PLC Based Control Panel of material 316 or 304 SS.
- iii. Protection: IP66, NEMA 4X, Corrosive Environment resistant.
- iv. Display: HMI (Human Machine Interface) with screen protector.
- v. PLC based drawing, software / backup, preloaded Memory card to be provided by bidder.
- vi. Level switches should be non-contact type.
- vii. Preferred vendor list is as under:
  - a. For Control Valves, Fisher / Masoneilam or Equivalent.
  - b. For PLC, Allen Bradley / Siemens / Yokogawa or Equivalent.
  - c. For Gauges, Ashcroft, Wika or Equivalent. Sizes: 6" or 4", ½" NPT.
  - d. PSV's from Crosby or Equivalent.
- viii. Provision of Third Party Communication Facility in the Package, to be provided by Bidder.
- ix. Instrumentation should be compatible with Class 1 Div. 1.
- x. Skid Lightning.
- xi. Compatible for outdoor application.
- xii. Vendor / Brand of instrumentation must be confirmed in Technical Bid.

**4- Delivery time:** 06 months after placement of order





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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"/>