

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

ANNEXURE-A

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Material : **REVERSE OSMOSIS (RO) PLANT.**

Due Date:

Tender Enquiry No: **LE/PT/P&P/RO/17127**

Bid Bond Value : PKR:130,000.00

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	Reverse Osmosis Plant, Capacity 25 GPM, Skid Mounted, as per attached specification and TOR	1		Unit					

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.
- (1) DELIVERY / INSTALLATION LOCATION: DAKHNI OIL FIELD. (2) DELIVERY / INSTALLATION PERIOD: WITHIN 05 MONTHS AFTER ISSUANCE OF LPO. (3) BID VALIDITY: 120 DAYS FROM DATE OF TENDER OPENING. (4) PAYMENT: "100% AFTER DELIVERY / INSTALLATION".

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.

Requirement: Supply & Installation of Reverse Osmosis plant

OGDCL intends to procure 01 No of Reverse Osmosis (RO) plant for Dakhni Plant (Tehsil Jand Distt. Attock). The RO water is utilized for boilers and Amine solution.

Water Quality:

Parameters	Feed Water	Product Water
pH	8.0 – 9.0	7.0 – 7.5
TDS	203 mg/l	5 mg/l
Conductivity	414 μ S/cm	< 10 μ S/cm

Specifications:

Quantity	One
Capacity	25 GPM
Membrane Type	TFC
Pressure Vessels	FRP
Product Flow	25 GPM
Feed TDS / Conductivity	203 mg/l / 414 μ S/cm
Product Quality TDS / Conductivity	5 mg/l / <10 μ S/cm
Feed Incoming Water Pressure	+ve Suction Head (150 PSI)
Feed Water Turbidity	< 1 NTU
Feed Water Iron (Ferric)	< 0.1 ppm

Main Control System (PLC Based)

- PLC Based Control Panel
- Protection: IP66
- Display: HMI (Human Machine Interface)
- Automatic operation of the system include:
 - Periodic membrane auto flush
 - CIP and product tank high and low indication & control
 - Automatic self-cleaning (CIP)

Terms of Reference:

- 1- Installation and commissioning of RO Plant will be in bidder scope.
- 2- Manufacturer should have supplied at least 03 nos. of RO plants locally in Pakistan. Verifiable documents, unpriced copy of contract / purchase order with name and full contact details, to be provided in technical bid. If manufacturer has supplied less than 03 nos. of RO plants, then bid will not be considered for further technical evaluation.
- 3- Manufacturer should have 05 year of previous experience for manufacturing of RO Plants. Manufacturer having less than 05 years of manufacturing experience of RO plants, will not be considered for further technical evaluation.
- 4- Manufacturer must have valid international / local certification like ISO, PEC etc.
- 5- Manufacturer / bidder must have after sales services setup in Pakistan. Documentary evidences must be provided in Technical bid.
- 6- In Technical bid, bidder to provide complete technical documents / brochure of quoted RO unit and every main part of RO plant like pumps, filters, HMI / PLC, membranes, skid dimensions etc.
- 7- Complete data sheet and material of construction to be confirmed in bid.
- 8- Lab analysis of Demin water will be carried out after commissioning of RO units and job completion will be subject to accomplishment of final results.

- 9- Bidder to quote 02 years operational spare parts. It will be not be part of financial evaluation. OGDCL may select the parts from list. Item wise price of each spare part to be mentioned in financial bid.
- 10- Bidder to confirm Guarantee / warrantee for a period of 01 year after installation or 18 months after shipment, whichever completes earlier.
- 11- The unit must be skid mounted made of high quality Mild Steel. The entire frame must be epoxy coated.
- 12- Delivery time: 05 months after placement of purchase order.
- 13- Bidder will be responsible for supply of RO plant up to Dakhni Plant, City Jand, and District Attock.
- 14- Main Control System must be PLC based with vortex cooler, protection IP66, and Temperature class T4, HMI with protecting cover, stainless steel enclosure and redundant power supply.
- 15- Final inspection of RO plant will be carried out at Dakhni plant.
- 16- Operational & Maintenance manual (02 sets of Hard Copies) must be provided.
- 17- All the above specifications and Terms of References should be clearly confirmed in technical bid and any non-compliance with the above specification and Terms of References should also be clearly mentioned in the bid.
- 18- OGDCL will only provide boarding and lodging facility. All other arrangements like transportation, security, tools etc will be in bidder scope.
- 19- Bidder to confirm complete installation and commissioning schedule in technical bid.