

**OIL & GAS DEVELOPMENT COMPANY LIMITED**  
**PROCUREMENT DEPARTMENT, ISLAMABAD**  
**FOREIGN SECTION A**

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

**ANNEXURE 'A'**

**Material** HYDRAULIC TORQUING TOOLS FOR KPD-TAY PLANT  
**Tender Enquiry No** PROC-FA/CB/P&P/KPD-4365/2019  
**Due Date**  
**Evaluation Criteria** FULL

**SCHEDULE OF REQUIREMENT**

Sr No	Description	Unit	Quantity	Unit Price (FOB)	Total Price (FOB)	Unit Price C & F BY SEA	Total Price C & F BY SEA	Deviated From Tender Spec. If Any
1	Hydraulic Torquing Tools with accessories as per attached TOR	Sets	1					

**Note:**

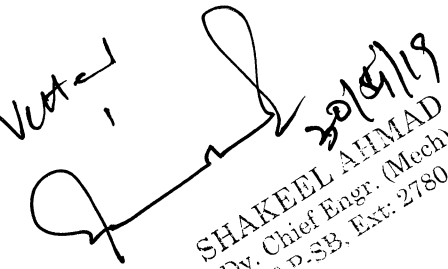
- 1) PURSUANT TO TENDER CLAUSE # 2.2, 11.4, 13 & 35.3.2, BID BOND AMOUNTING TO USD 2,100/- OR EQUIVALENT TO PAK RUPEES MUST BE SUBMITTED WITH THE TECHNICAL BID AND VALID FOR 150 DAYS FROM THE DATE OF OPENING OF THE BID.
- 2) EVALUATION CRITERIA: FULL CONSIGNMENT WISE ON CFR KARACHI BASIS.
- 3) TERMS AND CONDITIONS: BIDDERS ARE ADVISED TO CAREFULLY READ ALL THE TERMS AND CONDITIONS OF THE TENDER DOCUMENT AVAILABLE AT OGDCL WEBSITE IN THE MASTER SET OF TENDER DOCUMENT.
- 4) SHIPMENT FROM ACU MEMBER COUNTRIES: IN CASE OF SHIPMENT FROM ACU MEMBER COUNTRIES, THE LC BENEFICIARY SHOULD BE OF THAT PARTICULAR COUNTRY FROM WHERE THE CONSIGNMENT IS BEING SHIPPED.
- 5) SUMMARY REJECTION CRITERIA: THE SUMMARY REJECTION CRITERIA CLAUSE # 35 OF OGDCL MASTER SET OF TENDER DOCUMENT MAY ALSO BE EXAMINED CAREFULLY. ANY BID NOT MEETING THE CRITERIA SPELLED IN THE CLAUSE # 35 SHALL BE SUMMARILY REJECTED WITHOUT ANY RIGHT OF APPEAL.
- 6) DELIVERY PERIOD: THE LEAD TIME OF THE QUOTED PRODUCT SHOULD NOT BE MORE THAN 120-150 DAYS AFTER OPENING OF LETTER OF CREDIT (LC).
- 7) **PAYEMNT:**

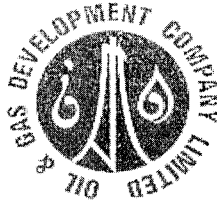
**a) FOR TENDER VALUE LESS THAN OR EQUAL TO US\$ 200,000:**

PAYMENT TO THE CONTRACTOR/ BIDDER IN FOREIGN CURRENCY SHALL BE MADE BY ESTABLISHING IN FAVOR OF THE CONTRACTOR AN IRREVOCABLE LETTER OF CREDIT (HEREINAFTER CALLED THE L/C). 70 % PAYMENT (S) UNDER THE L/C WILL BE MADE FOR THE FOB/ CFR / CPT (AS THE CASE MAY BE) PRICE OF MATERIAL OF EACH SHIPMENT UPON SUBMISSION OF THE SHIPPING DOCUMENTS. BALANCE 30% PAYMENT WILL BE RELEASED AFTER RECEIPT, INSPECTION AND ACCEPTANCE OF MATERIAL.

**b) FOR TENDER VALUE MORE THAN US\$ 200,000:**

PAYMENT TO THE CONTRACTOR/ BIDDER IN FOREIGN CURRENCY SHALL BE MADE BY ESTABLISHING IN FAVOR OF THE CONTRACTOR AN IRREVOCABLE LETTER OF CREDIT (HEREINAFTER CALLED THE L/C). 80 % PAYMENT (S) UNDER THE L/C WILL BE MADE FOR THE FOB/ CFR / CPT (AS THE CASE MAY BE) PRICE OF MATERIAL OF EACH SHIPMENT UPON SUBMISSION OF THE SHIPPING DOCUMENTS. BALANCE 20% PAYMENT WILL BE RELEASED AFTER RECEIPT, INSPECTION (IN ADDITION OF PRE-SHIPMENT INSPECTION) AND ACCEPTANCE OF MATERIAL.

*Verified*  
  
**SHAKEEL AHMAD**  
 Dy. Chief Engr. (Mech)  
 P&P-SB, Ext: 2780



OIL & GAS DEVELOPMENT COMPANY LTD  
TOR FOR HYDRAULIC TORQUING TOOL

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## **1.0 INTRODUCTION:**

Oil and Gas Development Company Ltd (OGDCL) is Pakistan's National Oil & Gas Exploration and Production Company. OGDCL is currently operating Country's largest Oil & Gas sector including saleable Oil & Gas Processing Plants.

Kunnar-Pasakhi-Deep and Tando-Allah-Yar (KPD-TAY) is a Gas & LPG Processing Plant, located in Hyderabad District about 25 km away from Hyderabad and approx. 195 km from Karachi, Sindh Province of Pakistan. The Plant is comprised of two gas processing trains installed in the close proximity of oil wells. The processing plant is connected with the wells through gas gathering network which terminates into slug catcher at the process plant premises.

Various Pressure Vessels, Columns, Re-boilers, Heat Exchangers, Filter Vessels, large size Valves and other equipment are installed at KPD-TAY Gas & LPG Processing Plant. Proper tightening of fasteners installed on various openings / nozzles of these equipment is very important to ensure safe and reliable operation of plant. In order to ensure safe and proper tightening of said equipment non-sparking Hydraulic Torquing Tools are required as per specifications elaborated in this TOR.

OGDCL intends to purchase hydraulic torquing tools from an experienced and well reputed manufacturer / supplier to fulfil the operational requirement.

## **2.0 DEFINITIONS, ERRORS & CONFLICTS.**

Owner /Company : Oil & Gas Development Company Limited (OGDCL)

Supplier /Contractor : Parties, which vendors and / or supplies material, equipment and services to perform the duties as specified by Company in the scope of supply.

### **2.1 Errors or Omissions.**

2.1.1 Review and comment by the Company at any Contractor / Supplier's drawings, procedures or documents shall only indicate acceptance of general requirements and shall not relieve the Contractor / Supplier of its obligations to comply with the requirements of this specification and other related parts of the contract documents.

2.1.2 Any errors or omissions noted by the Contractor / Supplier in this Specification shall be immediately brought to the attention of the Company. If bidder found any ambiguity in specifications of hydraulic torquing tools & accessories, it should be cleared prior to bid submission.

### **2.2 Conflicting Requirements.**

In the event of conflict, inconsistency or ambiguity between this Specifications, National Codes & Standards referenced in this Specification or any other documents, the Contractor/ Supplier shall refer to the Company whose decision shall prevail.

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### 3.0 SCOPE OF SUPPLY.

The scope covers supply of Hydraulic Torquing tools along with all accessories as specified in below table. Furthermore it is properly quantified in the financial bid format clause 05.

Sr #	Equipment	Specifications	Quantity
1	Ex-Proof Pneumatic Hydraulic Pump with Hoses.	<b>Ex-Proof Pneumatic Hydraulic Pump</b> 10,000 psi rated pressure, equipped with oil cooler for 4-port (04 Tools simultaneous) application, high pressure hydraulic hoses tested at 40,000 psi (1:4 Safety factor) having at least 20 feet length (02 per pump), hydraulic pressure adjustable to control torque developed by torque wrench, air dryer (moisture filter), air and hydraulic pressure gauges. Working air (pneumatic) pressure: 100-120psi.	02-Each
2	Low Torque Wrench and Impact Sockets	<b>Low Torque Square Drive Torque Wrench &amp; Accessories (02 no's each)</b> Torque range from 270 Nm or less to 1700 Nm or more, capable of traditional torque including Impact Sockets for hex sizes: 1-7/16" (36mm), 1-5/8" (41mm) and 1-13/16" (46mm) two numbers each.  Preferably, Torque-tension with the ASME compliant 'self-reacting load washer' (Z-Washer), angle application or any other equivalent technology to meet the technical requirement.	01 set
3	High Torque Wrench and Impact Sockets	<b>High Torque Square Drive Torque Wrench &amp; Accessories (02 no's each)</b>  Torque range from 2500 Nm or less to 15500 Nm or more, capable of traditional torque including Impact Sockets for hex sizes: 3-1/8" (80 mm), 3-5/16 (85mm), 3-1/2" (90mm) and 3-7/8" (100mm) two numbers each.  Bidder may propose more than one torque wrenches to accommodate above mentioned torque range without compromising on usability on small bolt sizes due to low clearance, it should complete two sets for entire torque range e.g if bidder propose two torque wrenches to fulfill the torque range then total number of torque wrenches to complete the set will be four numbers.	01 set

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		Preferably, torque-tension with the ASME compliant 'self-reacting load washer' (Z-Washer), angle application or any other equivalent technology to meet the technical requirement.	
4	Low Clearance Torque Wrench and Ratchet Links	<p><b>Low Clearance Torque Wrench &amp; Accessories (02 no's each)</b></p> <p>Torque range from 850 Nm or less to 5400 Nm or more, capable of traditional torque.</p> <p>Including Ratchet Links for hex sizes: 2"(50mm), 2-3/16"(55mm), 2-3/8"(60mm), 2-9/16"(65mm), 2-3/4"(70mm) and 2-15/16" (75mm) two numbers each.</p> <p>Preferably, torque-tension with the ASME compliant 'self-reacting load washer' (Z-Washer), angle application, ratchet links with load washer holding plates or any other equivalent technology to meet the technical requirement.</p>	01 set

#### 4.0 GENERAL SCOPE / TERMS & CONDITIONS

- 4.1 Bidder must provide technical literature & drawings / sketches with dimensions i.e length, width & radius etc. in the technical bid.
- 4.2 Operation & Maintenance manual to be provided along with supply.
- 4.3 Bidder shall confirm to provide onsite training & commissioning of equipment by his own or through local representative at no extra cost.
- 4.4 Bidder shall provide digital remote control along with equipment. Remote control should pass the electric charge & capacity test.
- 4.5 Pump should be equipped with air dryer & air on / off valve.
- 4.6 Pump should have automatic pressure control system / function.
- 4.7 Bidder shall quote two year's operational spares as option.
- 4.8 Bidder shall confirm to provide two hydraulic oil change (for both pumps), two sets of pump filters (air, oil, Moisture etc) along with equipment. It should be confirmed with part numbers & quantity in the technical bid i.e quantity required for each pump & total quantity for both pumps. Price should also be provided in the financial bid.
- 4.9 Torque Wrenches must be capable for traditional torque. All accessories like hydraulic pumps, hoses, impact sockets, reaction arm, ratchet links etc. must be included in the quotation. Package should include two explosion-proof pneumatic hydraulic power packs (pumps) preferably of USA or European origin.
- 4.10 OEM's certificate of compliance, manufacturing, warranties, calibration(s) etc. must also be submitted in original along with shipment.

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- 4.11 OEM should have at least Fifteen (15) year experience of manufacturing & supply of hydraulic torque wrench / hydraulic torquing equipment.
- 4.12 If the bidder is not OEM, the supplier / bidder should have at least 05 years of experience and should be capable of complete repair and after-sales support with OEM approved and 3<sup>rd</sup> Party certified calibration equipment. If bidder does not possess the required experience & after sale service requirements, then OEM availability for the same shall be confirmed in the technical bid.
- 4.13 All hydraulic torquing tools & accessories shall be packed as per industrial standard & packing list to be provided.
- 4.14 Hydraulic torquing tools final inspection & assembly record to be provided.
- 4.15 All hydraulic torquing tools & accessories must be new & free from any defect.
- 4.16 Hydraulic torquing tools must have standard OEM warranty / guarantee i.e. 18 months from the date of delivery or 12 months from date of commissioning, whichever comes first for new equipment or component.
- 4.17 Delivery period must not exceed 120-150 days.

## 5.0 FINANCIAL BID FORMAT

- 5.1 Financial evaluation / comparison will be carried out at total cost from A to D as per detail in the financial bid format. Two year operational spares cost will not be considered for financial evaluation & selection of two year operational spares will be at OGDCL choice to include in the contract or not. Contract will be awarded to technically qualified and financially lowest evaluated bidder on complete package basis.
- 5.2 Bidder shall quote all prices as per below format.

S. No	Description	Quantity (Nos)	Unit Price in USD	Total Price in USD
A	Ex-Proof Pneumatic Hydraulic Pump	02		
A-1	High pressure hydraulic hoses tested at 40,000 psi (1:4 Safety factor) having at least 20 feet length.	04		
A-2	Hydraulic oil, Pump filters (air, oil, Moisture etc). Quantity of hydraulic oil & filters for each pump to be mentioned by bidder.	02 set		
B	Low Torque Wrench (Torque range from 270 Nm or less to 1700 Nm or more) for hex sizes: 1-7/16" (36mm), 1-5/8" (41mm) and 1-13/16" (46mm).	02		
B-1	Impact Sockets size 1-7/16" (36mm)	02		

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B-2	Impact Sockets size 1-5/8" (41mm)	02		
B-3	Impact Sockets size 1-13/16" (46mm)	02		
C	High Torque Wrench Torque range from 2500 Nm or less to 15500 Nm or more for hex sizes: 3-1/8" (80 mm), 3-5/16 (85mm), 3-1/2" (90mm) and 3-7/8" (100mm)	02		
C-1	Impact Sockets size 3-1/8" (80 mm)	02		
C-2	Impact Sockets size 3-5/16 (85mm)	02		
C-3	Impact Sockets size 3-1/2" (90mm)	02		
C-4	Impact Sockets size 3-7/8" (100mm)	02		
D	Low Clearance Torque Wrench Torque range from 850Nm or less to 5400 Nm or more for hex sizes: 2" (50mm), 2-3/16" (55mm), 2-3/8" (60mm), 2-9/16" (65mm), 2-3/4" (70mm) and 2-15/16" (75mm).	02		
D-1	Ratchet Links size 2" (50mm).	02		
D-2	Ratchet Links size 2-3/16" (55mm)	02		
D-3	Ratchet Links size 2-3/8" (60mm),	02		
D-4	Ratchet Links size 2-9/16" (65mm)	02		
D-5	Ratchet Links size 2-3/4" (70mm)	02		
D-6	Ratchet Links size 2-15/16" (75mm)	02		
E	** Two year operational spares cost (bidder shall provide list & quantity).	Bidder to provide		
	Grand Total (A to D)			

\*\* Two year operational spares cost will not be considered for financial evaluation and it will be OGDCL's discretion to include in the contract or not.

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