



**OIL & GAS DEVELOPMENT COMPANY LTD.**

**TENDER ENQUIRY NO. PROC-FC/CB/PROJ/KPD-3136/2017**

**TENDER DOCUMENTS**  
**FOR**  
**SUPPLY OF MECHANICAL, ELECTRICAL,**  
**INSTRUMENTATION AND TELEMETRY WORKSHOP**  
**EQUIPMENT**



Consultant:



**Zishan Engineers (Pvt.) Ltd.**

An ISO 9001-2015, 14001-2004 & 18001-2007 certified company

47/F, Block 6, PECHS, Karachi-Pakistan.

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FEBRUARY – 2018

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**OIL & GAS DEVELOPMENT COMPANY LTD.**

**TENDER ENQUIRY NO. PROC-FC/CB/PROJ/KPD-3136/2017**

**(SECTION – I)**

**PROJECT BACKGROUND & INTRODUCTION**

**FOR**

**SUPPLY OF MECHANICAL, ELECTRICAL,**

**INSTRUMENTATION AND TELEMETRY WORKSHOP**

**EQUIPMENT**



1	23-02-2018	Issued for Tender	HH	SP	MAS
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## 1.0 **PROJECT BACKGROUND AND INTRODUCTION**

Oil & Gas Development Company Limited (OGDCL) is operating oil/gas fields in various parts of Islamic Republic of Pakistan. At one of the fields i.e. Kunnar Pasaki Deep (KPD), OGDCL aims to construct a gas processing facility to process raw gas. The processed sales gas from the facility will be supplied to gas transmission/distribution company operating in the area. The LPG will also be extracted from the gas stream.

The KPD gas processing facility shall treat 250 MMSCFD raw gas with a margin of 10%. The 250 MMSCFD raw gas shall yield 225.2 MMSCFD sales gas 5058 bbls/day condensate and 413 MT/day LPG.

Currently, KPD-TAY facility is in commissioning stage and soon will be operationally handed over to Process & Plants Department. Accordingly, Main Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment require to be established for routine maintenance of Plant. At present, civil construction of workshop is already completed. Now, OGDCL is inviting bids from reputable suppliers for procurement of Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment on the following Group-Wise basis:

- Group - A:** Mechanical Maintenance Machines
- Group - B:** Welding / Cutting Machines for Mechanical Workshop
- Group - C:** Maintenance Tools for Mechanical Workshop
- Group - D:** Mechanical Inspection Tools
- Group - E:** Electrical Inspection Tools
- Group - F:** Instrument Testing Tools
- Group - G:** Electrical / Instrument Tools
- Group - H:** Telemetry Testing Tools
- Group - I:** Lifting Equipment for Mechanical Workshop
- Group - J:** Air Compressor
- Group - K:** Pumps
- Group - L:** Combination Pressure Test Bench

This tender document has been prepared as per Public Procurement Regularity Authority (PPRA) requirements and provides the basis for procurement of Mechanical, Electrical Instrumentation and Telemetry Workshop Equipment.



The tender document comprises of the following:

- Background & Introduction (Section-I)
- Invitation to Bid (Section-II)
- Instruction to Bidders (Section-III)
- Scope of Supply & Specifications (Section-IV)
- Forms & Conditions of Contract (Section-V)

The bidders will prepare and submit their bids, as per instructions given in the ITB (Section-III) and Scope of Supply & Specifications (Section-IV) of this tender document. The Form and Conditions of the Contract are given in Section-V.



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## OIL & GAS DEVELOPMENT COMPANY LTD.

TENDER ENQUIRY NO. PROC-FC/CB/PROJ/KPD-3136/2017

(SECTION – II)

INVITATION TO BID

FOR

SUPPLY OF MECHANICAL, ELECTRICAL

INSTRUMENTATION AND TELEMETRY WORKSHOP

EQUIPMENT



1	23-02-2018	Issued for Tender	HH	SP	MAS
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- Group - D:** Mechanical Inspection Tools
- Group - E:** Electrical Inspection Tools
- Group - F:** Instrument Testing Tools
- Group - G:** Electrical / Instrument Tools
- Group - H:** Telemetry Testing Tools
- Group - I:** Lifting Equipment for Mechanical Workshop
- Group - J:** Air Compressor
- Group - K:** Pumps
- Group - L:** Combination Pressure Test Bench

The technical bid envelope should clearly indicate the quoted groups by the company.

The prospective bidders are required to carefully review the document and send the enclosed letters of Intention to Bid or Declining the Bid and Secrecy declaration two (02) weeks before the bid submission date mentioned in tender notice.

Sealed bids are hereby invited under single stage two (02) envelop bidding system (i.e. Technical & Financial Bids in separate envelopes) from eligible bidders for the items as listed in the Bid Price Schedule (**Annexure-II/(Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L)**), Section-III (ITB) of the Tender Documents. The prices shall be quoted on FOR basis (as required in the Bid Price Schedule (**Annexure-II/ ((Annexure-II/(Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L)**)).

Both the bids shall be submitted simultaneously in separate sealed inner and outer envelopes. The envelope containing Technical Bid must be marked clearly “Technical Bid” and containing Financial Bid must be marked clearly “Financial Bid” along with indication on the envelopes as “ORIGINAL” and “COPY”. No copy is required for financial bid.

Under this procedure, the technical bids will be opened first on the date of mentioned in Tender Notice. The financial bids of the technical qualified bidder (s) will be opened publicly. The Technical Evaluation Report will be published on OGDCL’s website before financial bid opening.

The details of the procedure are given in clause 3.2 of ITB (Section-III).

The bids are required to be submitted at OGDCL’s Office on Bid Closing Date & Time as per OGDCL’s Tender Notice published in newspaper. Each bid shall be valid for minimum 180 days from the date of opening of technical bid and should be accompanied with an upfront earnest money in the form of pay order/demand draft or bank guarantee issued by a scheduled bank of Pakistan operating in Pakistan for amounts listed in **Annexure-X** of Section-III, in Pakistani Rupees mentioned in the tender notice as Earnest Money with technical bid and valid for 210 days from the date of opening of technical bids. Bank Guarantee through telex / fax shall not be acceptable. The Group-wise Earnest Money (Bank Guarantee) must be issued in accordance with the format as per **Annexure-I/ Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L)** of the tender Documents.

OGDCL does not take any responsibility for collecting the bids from any Agency. Bidder’s authorized representative may attend the Tender opening if desired. The tender received after closing time or date shall be returned to Bidder unopened.

The OGDCL reserves the right to have the material & equipment items inspected by its own representatives or through third party at its own cost.

It shall be indicated in the offer that the quotation fully conforms to Technical Specifications and Terms & Conditions of the Tender Document.

The bid shall be evaluated in accordance with the evaluation criteria as indicated in the schedule of requirement / tender. Tenderers are advised to quote competitive prices enabling OGDCL to decide the purchase.

The award will be made in favor of lowest evaluated responsive bidder at the sole discretion of OGDCL.

On acceptance of the bid by the OGDCL, the successful bidder shall be required to furnish Performance Bond / Bank Guarantee issued by scheduled Bank of Pakistan operating in Pakistan for an amount equivalent to 10 % of the value of Contract exclusive of GST as per **Annexure-VIII/( Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L)** Section – III, ITB, of the tender document.

OGDCL reserves the right to increase or decrease the quantity, accept or reject any bid or part of a bid and or to annul the bidding process and reject all bids at any time prior to award of contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the grounds for OGDCL's action.

Unsolicited advice/clarifications and personal approaches by the bidder(s) at any stage of evaluation are strictly prohibited and shall lead to disqualification.

It must be indicated in the offer that the quotation fully conforms to Technical Specifications and Terms and Conditions of the Tender.

In the event that the bidder(s) submits an alternative bid(s) whether in whole or against any of the items, a group or sub-group in addition to its Main Bid, the bids must be marked as “Main Bid” and “Alternative Bid”. Alternative bid(s) which do not conform to the specifications, but meet the performance prescribed in, or the objectives of, the specifications may be submitted. However, only the Alternative Bid of the bidder(s) whose Main Bid is the lowest evaluated bid will be considered.

A bidder, who wishes to have its Alternative Bid(s) considered on an equal basis with all other (Main) Bids, must submit an Earnest Money for each Alternative Bids, an Alternative Bid must be submitted in a sealed envelope clearly marked “Alternative Bid”, separate from the Main Bid.

The bidder(s) are expected to examine all instructions, forms, terms and specifications in the Bidding Documents. Failure to furnish all information required by the Bidding Documents or submission of a bid not substantially responsive to Bidding Documents in all respect will result in the rejection of the bid(s).

Bids must be delivered / dropped in the tender box until (as mentioned in the tender notice) hours Pakistan Standard Time (PST) on (As mentioned in the tender notice) following address:-

Mr. Irshad Muhammad, Manager (SCM)-Foreign

Supply Chain Management Department OGDCL House,  
Oil & Gas Development Company Limited,  
Plot No. 3 (New No 3013) F-6/G-6, Jinnah Avenue,  
Islamabad (Pakistan)  
Phone No. 92-51-92002 2144  
Fax No. 92-51-9209673 & 9207530

Bids will be opened at (as mentioned in the tender notice) hours (PST) at the place noted above.

(On Bidders Letter Head)

**LETTER OF INTENTION TO BID**

General Manager SCM  
Oil & Gas Development Company Limited  
OGDCL House, Jinnah Avenue  
Islamabad (Pakistan)

**SUBJECT: TENDER ENQUIRY NO.: PROC-FC/CB/PROJ/KPD-3136/2017 FOR  
SUPPLY OF MECHANICAL, ELECTRICAL, INSTRUMENTATION AND  
TELEMETRY WORKSHOP EQUIPMENT**

Dear Sir,

We have obtained the subject tender document and hereby confirm that we shall be submitting our bid on or before the deadline of bid submission as per OGDCL's requirement.

Yours Truly,

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Designation: \_\_\_\_\_



(On Bidders Letter Head)

**LETTER OF DECLINING TO BID**

General Manager SCM  
Oil & Gas Development Company Limited  
OGDCL House, Jinnah Avenue  
Islamabad (Pakistan)

**SUBJECT: TENDER ENQUIRY NO.: PROC-FC/CB/PROJ/KPD-3136/2017 FOR  
SUPPLY OF MECHANICAL, ELECTRICAL, INSTRUMENTATION AND  
TELEMETRY WORKSHOP EQUIPMENT**

Dear Sir,

We have obtained the subject tender document and regret that at this instance we shall not be submitting the bid. We are hereby returning the complete tender document together with secrecy declaration for OGDCL's record.

Yours Truly,

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

**SECRECY DECLARATION**

Oil & Gas Development Company Limited  
OGDCL House, Jinnah Avenue  
Islamabad (Pakistan)

**KPD-TAY GAS PROCESSING FACILITY**

**Tender Enquiry No: PROC-FC/CB/PROJ/KPD-3136/2017**

We the undersigned \_\_\_\_\_ having our principal office at \_\_\_\_\_ (hereinafter referred to as the Bidder) hereby declare to Oil & Gas Development Company Limited, Islamabad – Pakistan (hereinafter referred to as OGDCL) to accept the following terms and conditions on which OGDCL is prepared to communicate to the Bidder certain Confidential Information as hereinafter defined:

**1.0 DEFINITIONS**

- 1.1 The “Project” shall mean KPD-TAY Gas Processing Facility.
- 1.2 “Confidential Information” shall mean any knowledge and information in connection with the Project at any time disclosed to the Bidder by or on behalf of the OGDCL in writing, in drawing or in any other form or acquired by the Bidder from the OGDCL, as well as all data derived from such knowledge and information at the time of such disclosure or acquisition is not:
  - In the free and lawful possession of the Bidder or
  - Part of public knowledge or literature
- 1.3 “Confidential Report” shall mean all manuals, specifications, drawings, letters, faxes, emails and any other material containing Confidential Information. For the purpose of Clauses 2 and 5 Confidential Information shall include Confidential Record.
- 1.4 The confidential record shall be such information as may be given by OGDCL.

## 2.0 **CONFIDENTIALITY**

### 2.1 **The Bidder**

- Shall preserve and cause its employees to preserve the secrecy of all Confidential Information.
- Shall not use or disclose the confidential information except with the prior written consent of OGDCL and subject to the conditions contained in Clause 5, for any purpose other than the performance of the contract for the Facility or the preparation and submission of a Bid for the Facility.
  - i) Disclose to any third party or enable any third party to note that fact that the Bidder has been invited to submit a bid for the Facility and / or, if applicable, the fact that the Facility has been entrusted to the Bidder.
  - ii) Reproduce, copy or use, or disclose to, place at the disposal of or use on behalf of any third party or enable any third party to peruse, copy or use, any Confidential Information.

2.2 The undertakings under 2.1 above shall continue in so far as the Confidential Information in question has not:

- Become a part of public knowledge or literature, or
- Been disclosed to the Bidder by a third party (other than one disclosing on behalf of OGDCL) whose possession of such information is lawful and who is under no secrecy obligation with respect to the same.

## 3.0 **COPYRIGHT**

The copyright of the Confidential Record shall, in the absence of any express provision to the contrary be vested in OGDCL.

## 4.0 **RETURN OF CONFIDENTIAL RECORD**

Upon completion of the Facility, or if it is decided that the Facility will not be entrusted to the Bidder, upon notification to the Bidder of such decision, the Bidder shall return to OGDCL all Confidential Record.

5.0 **THIRD PARTY**

The Bidder shall ensure that under the terms of this Secrecy Declaration any of the Confidential Information comes to the knowledge and/or in the possession of any third party, the Bidder shall require from such third party that it shall abide by stipulations equivalent to those contained in this Secrecy Declaration.

Agreed and accepted this \_\_\_\_\_ day of \_\_\_\_\_.

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Position: \_\_\_\_\_



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## OIL & GAS DEVELOPMENT COMPANY LTD.

TENDER ENQUIRY NO. PROC-FC/CB/PROJ/KPD-3136/2017

(SECTION – III)

INSTRUCTIONS TO BIDDERS

FOR

SUPPLY OF MECHANICAL, ELECTRICAL

INSTRUMENTATION AND TELEMETRY WORKSHOP

EQUIPMENT



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ANNEXURE-V	: BLACKLISTING PROCEDURE FORM TENDER
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ANNEXURE-X	: GROUP WISE BREAK-UP OF EARNEST MONEY VALUE

### ATTACHMENTS:

ATTACHMENT-I	: TERMS AND CONDITIONS OF INLAND LETTER OF CREDITS FOR GROUP-A/B/C/D/E/F/G/H/I/J/K/L
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## 1.0 **GENERAL**

### 1.1 **Scope of Bid and Source of Funds**

The bid pertains to supply of Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment for the earlier mentioned field of OGDCL. The cost to be incurred for procurement (supply) of Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment will be financed from available internally generated funds.

### 1.2 **Eligibility of Goods & Bidders**

For purpose of this Clause, “origin” means the place where the Goods are mined, grown or produced or from where the ancillary services are supplied. Goods are produced through manufacturing, processing or substantial and major assembling of components, a commercially recognized product results that is substantially different in basic characteristics or in purpose or utility from its components.

The origin of Goods and Services is distinct from the nationality of the Bidder.

The bidders shall be the supplier of Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment or authorized distributors of the manufacturer.

The Supplier must have at least five (05) years experience in supplying of Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment. The bidder shall submit documentary evidence to this effect.

### 1.3 **Agent / Representatives**

The agent /representatives can download the tender document from OGDCL website and submit the bid (including the Earnest Money) on behalf of their principals. However, they shall be required to submit agency / distributorship / representation letter (On Principal’s letter head) duly signed and stamped with authorization for the subject tender. Moreover, the Principal Bidder(s) as designated by local agent during confirmation of Bid participation could not be changed at any later stage of bidding.

### 1.4 **Cost of Bidding**

The bidder shall bear all costs associated with the preparation and submission of its bid including submission of Earnest Money and OGDCL will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

### 1.5 **Bidding Process**

OGDCL is adopting the single stage two envelope bidding system as outlined below:

- The bidders shall submit one original and one copy of their Technical bid whereas the financial bid is required in original only. No copy is required for financial bid.
- Tender Annexure to be added in both the bids; UN-Priced with technical Bids & Priced with Financial Bids
- Both the bids shall be submitted simultaneously in separate sealed inner and outer envelopes. The envelope containing Technical Bid must be marked clearly “**Technical Bid**” and containing Financial Bid must be marked clearly “**Financial Bid**” along with indication on the envelopes as “ORIGINAL” and “COPY”.
- Earnest Money shall be submitted along with Technical Bid. The Technical Bid will be opened at first and evaluated. The Financial Bid of only those bidders will be opened who are declared technically Responsive.

### 1.6 **Manufacturer/Packager’s Scope & Responsibilities**

The Supply’s Scope & responsibilities w.r.t Supply of Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment shall be as defined in **Section IV** of Tender Document.

### 1.7 **Delivery of Mechanical, Electrical, Instrumentation & Telemetry Workshop Equipment**

In view of urgency, timely delivery shall be required. Accordingly, the Bidders are required to adhere to the maximum Delivery Period of four (04) months for each individual quoted **Group (Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L)** without any relation/accumulation of timeline to that of any other group on F.O.R Kunner Field basis from the date of establishment of letter of credit. The bidders are encouraged to indicate the delivery period less than four (04) months. If the delivery period is more than four (04) months bid price will be loaded @ One (01) percent for per week or part of week of the excess period.



## 2.0 **TENDER DOCUMENT**

### 2.1 **Contents**

As stated earlier, the tender document comprises of following together with any addenda that may be issued from time to time:

- Background & Introduction (Section-I)
- Invitation to Bid (Section-II)
- Instruction to Bidders (Section-III)
- Scope of Supply & Specifications (Section-IV)
- Forms & Conditions of Contract (Section-V)

The prospective bidders shall carefully study and examine all sections of the document and shall comply with the stipulated requirements. Failure to furnish all information required by the tender document or submission of bid not substantially responsive to the tender requirement in every respect will be at Bidders risk and may result in the rejection of the Bid.

### 2.2 **Clarifications**

A prospective bidder requiring any clarification of the Tender document or requiring any data may notify in writing by fax or email to OGDCL at below given addresses however, only such clarifications will be entertained which have been received before ten (10) days of technical bid opening date after this time, no clarifications shall be entertained:

- Manager (SCM)-Foreign,  
1st Floor, OGDCL House,  
Jinnah Avenue,  
Blue Area, Islamabad,  
Pakistan.  
Tel: +92-(0)51-920022144  
Fax: +92-(0)51-2623113-7  
Email: [Irshad\\_Muhammad@ogdcl.com](mailto:Irshad_Muhammad@ogdcl.com)

- Procurement Officer (Projects),  
1st Floor, OGDCL House,  
Jinnah Avenue,  
Blue Area, Islamabad,  
Pakistan.  
Tel: +92-(0)51-920022139  
Fax: +92-(0)51-2623113-7  
Email: [obaid\\_sikander@ogdcl.com](mailto:obaid_sikander@ogdcl.com)

OGDCL will respond in writing to any request for clarifications from the bidders which it receives ten (10) days before the technical bid opening date, after technical bid opening date, no clarifications shall be entertained. The clarifications reply will also be uploaded on OGDCL website, if required.

### 2.3 **Amendment**

At any time prior to the deadline for submission of bids, a modification in the bidding documents in the form of an addendum may be issued in response to a clarification requested by a prospective Bidder or even whenever the OGDCL considers it beneficial to issue such a clarification and / or amendment to all Bidders.

Any addendum/amendment/clarification shall form part of the tender document and shall be posted on OGDCL website or through press corrigendum. The prospective bidders should acknowledge receipt of any such addenda/amendment in the tender document.

In order to allow prospective bidders reasonable time to take the addenda/amendment/clarification into account in preparing their bids OGDCL at its discretion may extend the deadline for submission of bids.

## 3.0 **PREPARATION OF BIDS**

### 3.1 **Language of Bids**

The Bids prepared by the Bidder and all correspondence and documents relating to the Bid exchanged between the Bidder and OGDCL, shall be written in English language. Any supporting documents and printed literature furnished by the Bidder written in another language should be accompanied by an English translation of its pertinent pages in which case, for purposes of interpretation of the Bid, the English translation shall govern.

### 3.2 **Documents Comprising the Bid**

The Bid to be submitted by the Bidder shall comprise Technical Bid and Financial Bid:

#### 3.2.1 **Technical (Proposal) Bid**

The Technical (Proposal) Bid shall consist of the following:

##### I) **General**

- a) Original Pay Order(s)/Bank Draft(s) or Bank Guarantee(s) (Earnest Money) for amounts listed in **Annexure-X** in Pak Rupees, as per format given in **Annexure-I/(Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L)**.
- b) An un-priced copy of **Annexure-II/(Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L)** dully singed and stamped by the Principal along with a statement confirming the bid validity period as per tender requirement along with other terms and conditions.
- c) Bidder profile as per format given in **Annexure-III**.
- d) Authority Letter in the name of representative signing the Bid.
- e) Duly initialed & stamped copy of Scope & Specification, Form & Conditions of Contract as well as Integrity and Ethics Undertaking as per format given in **Annexure-IV-A & B** and an affidavit as per format given in **Annexure-V**.
- f) Data Summary Sheet (Technical Bid) as per format given in **Annexure-VI/ (Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L)**.
- g) Statement that the goods are "Brand New".

#### 3.2.2 **Financial Bid**

- a) Bidding Form as **Annexure-VII/ (Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L)**.

- b) Photocopy of Earnest Money in the form of Pay Order/Bank Draft or Bank Guarantee for amounts listed in **Annexure-X** in Pak Rupees (including pre-shipment inspection charges) for **(Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L)**.
- c) Bid Price Schedule duly signed and stamped by the Supplier shall indicate the quoted prices of the equipment as contained therein along with other terms and conditions as per **Annexure-II** / **(Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L)**.
- d) Data Summary Sheet (Financial Bid) as per format given in **Annexure-VIII**/ **(Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L)**.

### 3.3 **Bid Form and Price Schedule**

The Bidder shall complete the Bid Form (**Annexure-VII**/ **(Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L)**) and Bid Price Schedule (**Annexure-II**/ **(Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L)**) furnished in the Tender Document, indicating the Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment to be supplied, a brief description of the Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment quantity and prices.

### 3.4 **Earnest Money**

3.4.1 The bidder(s) shall furnish, as part of his bid, a Bank Draft/Call Deposit/Pay order/ Bank Guarantee (As per **Annexure-I**/**Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L**) issued by scheduled bank operating in Pakistan, in favor of Purchaser as per amount mentioned in Tender Notice/SOR as Earnest Money with Technical Bid. Any Bid not accompanied by Earnest Money with Technical Bid shall be rejected without any right of appeal. Earnest Money from NIB, Royal Bank of Scotland and Summit Bank is not acceptable to OGDCL.

3.4.2 Short Earnest Money or Crossed Cheque as Earnest Money is not acceptable.

- 3.4.3 The Earnest Money of un-successful bidder(s) will be returned after award of Contract to successful bidder(s). The Earnest Money of successful bidder(s) will be discharged / returned upon bidder(s) furnishing the required Bank Guarantee/ Performance Bond and executing the contract. Performance Bond from NIB, Royal Bank of Scotland and Summit Bank is not acceptable to OGDCL.
- 3.4.4 The Earnest Money of bidder(s) whose bid is rejected under Clause 3.5.1.6 will be returned forth-with.
- 3.4.5 The earnest Money shall be forfeited:
- If a bidder withdraws its bid during the period of bid validity.
  - In case the successful bidder(s) fails to furnish Performance Bond as per clause 6.5.1.

### 3.5 **Bid Prices & Payment Terms**

#### 3.5.1 **Bid Prices**

- 3.5.1.1 The Bidder shall specify on Bid Price Schedule (**Annexure-II/ Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L**) of this Tender Document) the unit price and total Bid Price of Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment, it proposes to supply of Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment under the Contract.
- 3.5.1.2 The prices quoted by the Bidder shall be FOR fixed and not subject to variation on any account. A bid submitted with an adjustable price quotation will be treated as non- responsive and rejected.
- 3.5.1.3 Prices must be quoted including all charges like handling, loading, transportation and un-loading, Octroi and Zila Tax etc. for delivery of material at Purchaser's stores located at required delivery location.
- 3.5.1.4 Quoted prices will be valid for 180 days from the opening date of the Technical Bid.
- 3.5.1.5 Technical brochure/literature confirming Size, Brand & Country of Origin of quoted items/material must be attached with the Technical Bid (where deemed necessary).

3.5.1.6 Any bid not confirming to 3.2.1, 3.2.2, 3.5.1.1 to 3.5.1.5 shall be rejected without any right of appeal.

3.5.1.7 Cost of Third Party Inspection will be borne by OGDCL if required.

Prices must be quoted in Pakistani currency inclusive of all taxes and duties, indicating unit price and total bid prices. GST must be quoted separately along with copy of GST Certificate. Conditional bid / bid having any price adjustment formula will be rejected.

### 3.5.2 **Payment Terms**

The payment for Supply of following Groups of Mechanical Workshop Equipment, Electrical Workshop Equipment, Instrumentation Workshop Equipment, and Telemetry Workshop Equipment shall be made through an Inland Letter of Credit (L/C) to be established through a scheduled bank or international bank operating in Pakistan. The terms and conditions of Inland Letter of Credit (L/C) are given in **Attachment-I/ (Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L)**. LC shall be valid for Six Months to facilitate payment after delivery.

**Group - A:** Mechanical Maintenance Machines

**Group - B:** Welding / Cutting Machines for Mechanical Workshop

**Group - C:** Maintenance Tools for Mechanical Workshop

**Group - D:** Mechanical Inspection Tools

**Group - E:** Electrical Inspection Tools

**Group - F:** Instrument Testing Tools

**Group - G:** Electrical / Instrument / Telemetry Maintenance Tools

**Group - H:** Telemetry Testing Tools

**Group - I:** Lifting Equipment for Mechanical Workshop

**Group - J:** Air Compressor

**Group - K:** Pumps

**Group - L:** Combination Pressure Test Bench

The payment under inland L/C will be made in the following manner:

- Hundred (100%) payment of the Contract Price shall be paid through Inland Letter of Credit (L/C) upon shipment, inspection, receipt & acceptance of all ordered of Groups (**Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L**) Workshop Equipment.

The payment under the L/C shall be effected upon submission of following documents upon each shipment of equipment:

- Original Supplier's invoice showing equipment/material description, quantity unit price and total price strictly in line with the Contract and verified by OGDCL and accompanied by a certificate issued by OGDCL that ordered equipment has been received at delivery location and inspected & accepted.
- Clean Truck Receipt/Carrier Receipt showing freight paid & indicating Contract / Inland LC details.
- Copy of applicable GST Invoice
- Annexure-C
- Copy of NTN certificate
- Duly Signed Stamped Delivery Note
- Packing list
- Certificate and list of measurements and weight gross/net.
- Mill Inspection/Quality Certificates.
- Warranty Certificate
- Third Party Inspection Certificate from any of the following (if required)
  - Lloyds
  - SGS
  - TUV Austria Bureau
  - Velosi
- Certificate of origin

### 3.6 **Alternative Bids**

- 3.6.1 In the event that the Bidder submit an Alternative bid(s) whether in whole or against any of the items, a group of sub group, in addition to its Main Bid , the bids must be marked as “Main Bid” and “Alternative Bid”. Alternative Bids which don’t conform to the specifications, but meet the performance prescribed in, or the objectives of, the specifications may be submitted. However, only the Alternative bid of the Bidder whose Main Bid is the lowest evaluated bid will be considered.
- 3.6.2 A Bidder, who wishes to have its Alternative bid(s) considered on an equal basis with all other (Main) bids, must submit a Bid Bond for each Alternative bid, An Alternative bid must be submitted in a sealed envelope clearly marked “Alternative Bid”, separate from the Main bid.

### 3.7 **Format and Signing of Bid**

- 3.7.1 The bidder shall prepare one (01) original & one (01) copy of technical bid and one (01) original financial bid, clearly marking "Original Bid" and "Copy of Bid" as appropriate. In the event of any discrepancy between them, the original shall govern.
- 3.7.2 The original and copy of Bid shall be typed or written in indelible ink. Bids must be properly signed by the Bidder or, and shall contain the full name and address of the Bidder. Each page of the Bid and its Annexures must be initialed and stamped by the person or persons signing the Bid. The name of all persons signing the Bid shall be typed or printed below their signatures. Bidders shall be deemed to warrant that the signatories have the necessary delegated authority to sign the Bid and to bind the Bidder.
- 3.7.3 The Bid shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by the Bidder, in which case such corrections shall be initialed by the person or persons signing the Bid.
- 3.7.4 All copies of the bid shall be signed by the Bidder or a person (s) duly authorized to bind the Bidder to the Contract. Proof of the authorization shall be furnished in the form of a written Power of Attorney which shall accompany the bid. All pages of the bid, where entries are made, shall be initialed by the person (s) signing the bid.



#### 4.0 **SUBMISSION OF BIDS**

##### 4.1 **Sealing and Marking of Bids**

4.1.1 As stated earlier, OGDCL is following single stage two envelop bidding process. Accordingly, bid to be submitted shall comprise of a single package containing two separate envelopes. Each envelope shall contain separately the technical (proposal) bid and financial (proposal) bid. The bidders shall submit two (02) copies of the technical bid, one of which shall be marked the “Original” and the other “Copy”. Financial Bid is required in original only.

4.1.2 Technical and financial (proposal) bids shall be submitted in separate envelopes.

4.1.3 Earnest money as mentioned in Press Tender Notice must be enclosed with Technical Bid.

4.1.4 Only Financial Bid(s) of technically responsive bidder(s) will be opened publicly.

4.1.5 Financial Bids of technically non responsive bidder(s) will be returned after award of Contract to successful bidder(s).

4.1.6 Each bid shall be sealed in inner and outer envelopes with the outer envelope marked as follows: -

Manager (SCM) - Foreign  
Supply Chain Management Department  
Oil & Gas Development Company Limited  
OGDCL House, 1<sup>st</sup> Floor, G-6/F-6,  
Jinnah Avenue, Islamabad (Pakistan)

4.1.7 The envelope shall also bear the word “CONFIDENTIAL” and following identifications:-

**TENDER NO: PROC-FC/CB/PROJ/KPD-3136/2017**

**FOR PROCUREMENT OF MECHANICAL, ELECTRICAL,  
INSTRUMENTATION AND TELEMETRY WORKSHOP  
EQUIPMENT**

**DON'T OPEN BEFORE (AS PER SCHEDULE MENTIONED IN THE TENDERNOTICE/SOR)**

**TECHNICAL/FINANCIAL BID(S) (INDICATE ONE ON EACH ENVELOPE)**

4.1.8 If the envelope is not marked, as instructed above, the OGDCL will assume no responsibility for the misplacement or premature opening of bid(s)

4.2 **Deadline for Submission of Bids**

The bids must be delivered at the Reception of OGDCL House, Jinnah Avenue, Islamabad on or before as per schedule mentioned in Press Tender Notice and the same will be opened accordingly.

4.3 **Late Bids**

Any bid received by the Purchaser after the prescribed deadline for submission of bids mentioned in Press Tender Notice/SOR will not be accepted and returned unopened to the bidder(s).

5.0 **BID OPENING AND EVALUATION**

5.1 **Bid Opening**

The OGDCL will open the Technical Bid, in the presence of bidder's representative(s) who may chose to attend on date, time and location mentioned above.

The bidder(s) names, bid prices including bid price modification and bid withdrawals, if any, will be announced at the time of financial bid opening.

The OGDCL will examine the bids to determine whether they are complete, no computational errors have been made, the required sureties have been furnished, documents have been properly signed, and the bids are generally in order.

Arithmetical errors found will be corrected as follows:

- Where there is a discrepancy between amount in figures and word, the amount in word will prevail.

- Where there is a discrepancy between the unit price and the total amount derive from the multiplication of the unit price and the quantity, the unit price as quoted will govern, unless there is an obvious gross arithmetical error in unit price, in which event, the extended amount quoted would prevail.
- In case the due date of bids opening falls on a holiday, the bids shall be opened on the next working day.

## 5.2 **Clarification of Bidding Documents**

The Bidders are expected to carefully examine all instructions, forms specifications in the bidding documents. Any bidder in doubt as to the exact meaning or interpretation of any part of the bidding documents must immediately seek clarification in writing from the OGDCL at mailing address indicated in the “INVITATION FOR BID”. The OGDCL will respond in writing to any request for information or clarification of the bidding documents which is received seven (07) days before technical bid opening date, after this time no clarifications shall be entertained.

All vendors, suppliers, contractors, consultants and alike are encouraged to inform the managing director and head of departments in case where any OGDCL employee asks for any type of favor whether monetary or in kind. You can contact the M.D. and heads of departments on the following addresses, phone numbers, faxes or e-mail.

### **Chairman & CEO**

Oil & Gas Development Company Ltd.  
OGDCL House, Islamabad.  
Tel No. 051-9209701  
Fax No. 051-9209708  
E-Mail: [ceo@ogdcl.com](mailto:ceo@ogdcl.com)

### **General Manager Supply Chain Management Department**

Oil & Gas Development Company Ltd.  
OGDCL House, Islamabad.  
Tel No. 051-2623228  
Fax No. 051-9215090  
E-Mail: [jahangaiz@ogdcl.com](mailto:jahangaiz@ogdcl.com)

The bidder should likewise notify the OGDCL of any contradictions, obscurities and omission in the Bidding Documents if clarification of these is necessary for the clear understanding of the documents and for preparation of the bid such enquiries must reach the OGDCL not later than two weeks prior to the deadline for submission of the bids.

OGDCL may ask bidders individually for clarification of their bid during the process of examination, evaluation and comparison of bids.

The request for clarification and the response shall be in writing, but no change in the price or substance of the bid, shall be permitted.

### 5.3 **Criteria for Summary Rejection of Bid**

The Bids are not meeting the following mandatory criteria shall be summarily rejected without right of appeal:

- Bid must meet the requirements of clauses 3.2.1, 3.2.2, 3.5.1.1 to 3.5.1.5 of the ITB.
- Bid must be prepared in English Language
- Bid must be valid for “180” days from the Date of Technical Bid Opening.
- The prices shall be firm FOR basis.
- Technical bid must be accompanied by “Blacklisting Procedure Form Tender” (**Annexure-V**) for not Blacklisting on Non-Judicial Stamp paper of Rs.100/-.
- Bid must reach at the specified OGDCL address as mentioned in clause 4.2.
- Bid must not be submitted in form of fax or email OR telegram/telefax/direct to the purchaser.
- Shareholders/owners information along with name and addresses and CNIC number.
- Technical bid must be un-priced
- Bid Bond in form of cheque, swift message or of short amount are not acceptable and bid is liable for rejection.
- Bid Price Schedule (**Annexure-II/ Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L**) of the Principal in original, dully filled in, signed and stamped by the Principal must be submitted along with bid giving all necessary details.
- Compliance certificate of all the terms and conditions of tender document. Any firm falling under criteria of OGDCL blacklisting shall stand rejected.
- The bids must be based on firm prices and not on any price adjustable formula.

- Data Summary Sheet (Technical Bid) as per **Annexure-V/ (Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L)** must be filled in and submitted along with the bid.
- Bid must be on Company's original letter head/pad.
- Bidding form as per **Annexure- VI/ ( Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L)** and Bid Price Schedule as per (**Annexure-II Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L)**) dully completed in accordance with sub-clause 3.5.1, must be part of the Bid submitted. For this purpose, Bidder may either use the photo copies of the format provided as **Annexure-II & VI** of the Tender Documents or may reproduce the same on his own letter head filling in blanks and signing and stamping them in original.
- Any fax bid with fax / copy of Bid Bond shall be rejected.

5.4 **Determination of Responsiveness for Group-A, Group-B & Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L**

- 5.4.1 After opening the bids, the OGDCL will determine whether each bid is substantially responsive to the requirements of Bidding Documents.
- 5.4.2 For the purpose of this clause, a substantially responsive bid is one which conforms to all the terms and conditions of the Bidding Documents without material deviation. A material deviation is one which being inconsistent with the Bidding Documents, affects in any substantial way to scope, quality or prescribed delivery schedule or which limits in any substantial way, the OGDCL's right or the Bidders' obligation under the contract.
- 5.4.3 A bid determined to be non-responsive will be rejected by the OGDCL and shall not subsequently be made responsive by the Bidder by correction of the non conformity.
- 5.4.4 The OGDCL may waive any minor deviation non-conformity or irregularity in a bid which does not constitute a material deviation, provided that the waiver does not prejudice or affect the relative standing order of any Bidder.

5.4.5 To assist in determining a bid's responsiveness the bidder(s) may be asked for a clarification of his bid. The bidder(s) is not permitted, however, to change bid price or substance of his bid.

5.4.6 The bidder(s) may lodge a written complaint for redressal of their grievances and disputes to Dispute Resolution Committee within fifteen days of the placement of the Technical Evaluation report on the web.

5.5 **Clarification of Bids**

To assist in determining a bid's responsiveness the Bidder may be asked for a clarification of his bid. The Bidder is not permitted, however, to change bid price or substance of his bid.

5.6 **Qualification of Selected Bidder For Group-A, Group-B & Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L**

OGDCL will determine to its satisfaction whether the Bidder (s) selected as having submitted the lowest evaluated, responsive bid is qualified to satisfactorily perform the Contract.

The determination will take into account the Bidder's financial, technical and production capabilities, availability of items ordered for. It will be based upon an examination of the documentary evidence of the Bidder's qualification prepared and submitted with the bid by the Bidder as well as such other information as may be deemed necessary and appropriate.

An affirmative determination will be prerequisite for award of the Contract to the Bidder. A negative determination will result the rejection of the Bidder's bid.

The Purchaser reserves the right at the time of award of order to increase or decrease to a reasonable extent in the quantity of goods specified in the Tender Document without any change in price or other terms and conditions.

You are encouraged to inform Managing Director & General Manager (SCM) on the following addresses/ contacts, in case where any OGDCL employee ask for any type of favor whether monetary or in kind:-

Designation	Address	TEL	E-mail
Managing Director	OGDCL House, Jinnah Avenue Islamabad	051-920023555	<a href="mailto:ceo@ogdcl.com">ceo@ogdcl.com</a>
General Manager (Supply Chain Management)	OGDCL House, Jinnah Avenue Islamabad	051-920023555	<a href="mailto:jahangaiz@ogdcl.com">jahangaiz@ogdcl.com</a>

### 5.7 **Contacting OGDCL**

- 5.7.1 Subject to Instruction 5.2 and 5.3 no Bidder or his agent shall contact OGDCL on any matter relating to its Bid, from the time of the Bid opening to the time the Contract is awarded.
- 5.7.2 Any effort by Bidder to influence OGDCL in its Bid evaluation, Bid comparison or Contract award decisions may result in the rejection of the Bidder's Bid.
- 5.7.3 All correspondence technical/financial shall be made with authorized representative of Supplier.
- 5.7.4 All correspondence relating to technical matters before bid submission or clarifications during evaluation etc. will be directed to OGDCL.

### 6.0 **AWARD OF CONTRACT**

The award of contract shall be made to the Bidder whose bid has been determined to be the lowest evaluated bid, after considering all factors and who meet the appropriate standards of capability and financial responsibilities.

OGDCL will award the Contract to the successful Bidder whose bid has been determined to be the lowest evaluated, responsive bid, provided further that the Bidder is determined to be qualified to satisfactorily perform the contract.

### 6.1 **OGDCL's Right to Accept any Bid and to Reject any or all Bids**

OGDCL reserves the right to accept or reject any bid or part of a bid and to annul the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the grounds for OGDCL's action.

Unsolicited advice / clarification and personal approaches by the Bidder at any stage of evaluation are strictly prohibited and shall lead to disqualification.

### 6.2 **OGDCL's Right to Vary the Scope of Contract**

OGDCL reserves the right at the time of award of Contract to make addition and deletions in any component of scope of work or vary the scope of work given in the Tender Document.

### 6.3 **Notification of Intent to Award**

6.3.1 Prior to the expiration of the period of bid validity, OGDCL will notify the successful Bidder in writing by fax or courier service its intent to award the contract. The Contract will be executed subject to satisfactory negotiation of the terms and conditions of the Contract.

6.3.2 Upon the successful bidder's furnishing of Performance Bond pursuant to Instruction 6.5, OGDCL will promptly notify each unsuccessful bidder and will discharge its Earnest Money pursuant to Instruction 3.4.3.

### 6.4 **Signing of Contract**

6.4.1 At the same time as OGDCL notifies the successful Bidder of its intent to award the Contract, OGDCL will send the Bidder the Form and Conditions of Contract (Section –V) provided in the Tender Document, incorporating all agreements between the parties for execution of contract.

6.4.2 Within ten (10) days of receipt of the Form and Conditions of Contract the successful bidder will be required to sign the Contract and return it to OGDCL.



## 6.5 **Performance Bond**

- 6.5.1 Within ten (10) days of the receipt of notification of intent to award the Contract from OGDCL, the successful Bidder shall furnish a Performance Bond in the Form of Bank Guarantee/Pay order (**Annexure – IX/(Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L)**) for an amount of ten percent (10%) of the Contract Price as a guarantee for the due and faithful performance of the Contract. The said Performance Bond shall be valid up for twelve (12) months from the date of receipts of material at site. The performance Bond shall be issued by a Pakistani Scheduled Bank operating in Pakistan and acceptable to OGDCL. Performance Bond from NIB, Royal Bank of Scotland and Summit Bank is not acceptable to OGDCL.
- 6.5.2 Failure of the successful Bidder to comply with the requirements of Instruction 6.4 or 6.5 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Bond, in which event OGDCL may make the award to the next lowest evaluated Bidder or call for new Bids.

**ANNEXURE – I**

**BANK GUARANTEE (EARNEST MONEY) FOR**  
**GROUP-A/B/C/D/E/F/G/H/I/J/K/L**

**ANNEXURE – I****BANK GUARANTEE (EARNEST MONEY) FOR  
GROUP – A / B / C / D / E / F / G / H / I / J / K / L**  
(To be submitted with Technical Bid)

Oil & Gas Development Company Limited,  
OGDCL House, Jinnah Avenue, Blue Area,  
Islamabad.

Dear Sir,

In consideration of M/S \_\_\_\_\_ herein after called “THE BIDDER” having submitted the accompanying Bid and in consideration of value received form (the Bidder above), we hereby agree to under take as follows:-

1. To make unconditional, immediate and forthwith payment of the sum of Pak.Rs. \_\_\_\_-/  
(Pak.Rs. \_\_\_\_\_ Only) upon your FIRST and SIMPLE written demand without further recourse, question, query, deferment, contestation or reference to the bidder, account party or any other person in the event of the withdrawal of the aforesaid bid by the BIDDER before the end of the period specified in the Bid after the opening of the same for the validity thereof or if no such period be specified, within 210 days after the said opening or if the Bidder, having been notified of the acceptance of his bid by the Company during the period of bid validity:
  - a. Fails or refuses to execute the Contract in accordance with the instructions to the Bidders, or
  - b. Fails or refuses to furnish Performance Bond in accordance with the instructions to Bidders.
2. To accept written intimation(s) from you as conclusive, sufficient and final evidence of the existence of a default of non-compliance, breach or default as aforesaid on the part of the BIDDER and to make payment immediately and forthwith upon receipt of your FIRST and SIMPLE written intimation.
3. No grant of time or other indulgence to, or composition or arrangement with the BIDDER in respect of the aforesaid Bid with or without notice to us shall affect this Guarantee and our liabilities and commitments hereunder.
4. This is an independent and direct obligations guarantee and shall be binding on us and our successor in-interest and shall be irrevocable.
5. The Guarantor Bank warrants and represents that it is fully authorized, empowered and competent to issue this guarantee.

Yours faithfully,

(BANKERS)

**ANNEXURE – II**

**BID PRICE SCHEDULE FOR**  
**GROUP- A/B/C/D/E/F/G/H/I/J/K/L**

**ANNEXURE - II****OIL & GAS DEVELOPMENT COMPANY LTD.****BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL, ELECTRICAL, INSTRUMENTATION AND  
TELEMETRY WORKSHOP EQUIPMENT****(To be Submitted with Financial Bid)**

ITEM	MATERIAL DESIGNATION	TOTAL PRICE F.O.R. BASIS (IN PKR)
1	Group - A: Mechanical Maintenance Machines	
2	Group - B: Welding / Cutting Machines for Mechanical Workshop	
3	Group - C: Maintenance Tools for Mechanical Workshop	
4	Group - D: Mechanical Inspection Tools	
5	Group - E: Electrical Inspection Tools	
6	Group - F: Instrument Testing Tools	
7	Group - G: Electrical / Instrument / Telemetry Maintenance Tools	
8	Group - H: Telemetry Testing Tools	
9	Group - I: Lifting Equipment for Mechanical Workshop	
9	Group - J: Air Compressor	
9	Group - K: Pumps	
9	Group - L: Combination Pressure Test Bench	
<b>GRAND TOTAL</b>		

**NOTE:**

- 1) THE ABOVE PRICE SHALL BE INCLUSIVE OF ALL TAXES, EXCEPT GST.
- 2) GENERAL SALES TAX MUST BE QUOTED SEPERATELY.

---

**Sign & Seal**



## Zishan Engineers (Pvt.) Ltd.

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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT (GROUP - A: MECHANICAL MAINTENANCE MACHINES)



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**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT**

<b>MECHANICAL MAINTENANCE MACHINES (GROUP - A)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1)	SUPPLY & TESTING OF THE FOLLOWING MECHANICAL MAINTENANCE MACHINES:					
a)	CENTRE LATHE MACHINE	1	NOS.			
b)	UNIVERSAL DRILLING / BORING MACHINE	1	NOS.			
c)	GRINDING / CUTTING MACHINE	2	NOS.			
d)	POWER HACK SAW	1	NOS.			
<b>TOTAL</b>						

**NOTE:**

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- 3) SPECIFICATIONS & DATASHEETS OF ABOVE MENTIONED EQUIPMENT ARE ATTACHED IN VOLUME-II OF THE TENDER DOCUMENT. BIDDER IS REQUESTED TO SUPPLY / INSTALL THE ABOVE IN ACCORDANCE WITH THE SAID DATASHEETS / SPECIFICATIONS.



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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT

### (GROUP - B: WELDING/ CUTTING MACHINES FOR MECHANICAL WORKSHOP)



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**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT**

<b>WELDING/ CUTTING MACHINES FOR MECHANICAL WORKSHOP (GROUP - B)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1)	SUPPLY & TESTING OF THE FOLLOWING MISCELLANEOUS MAINTENANCE TOOLS FOR MECHANICAL WORKSHOP:					
a)	ENGINE DRIVEN STICK & TIG WELDING MACHINE WITH AIR COOLED ACCESSORIES AND WHEEL MOUNTED SKID	1	NOS.			
b)	TIG WELDING MACHINE (OUTPUT CURRENT RANGE UP TO 500 AMPS AC/DC & DUTY CYCLE 60 HZ)	2	NOS.			
c)	PLASMA CUTTING TORCH SET	1	NOS.			
d)	OXY-ACETYLENE WELDING SET WITH ALL ACCESSORIES INCLUDING CYLINDERS, TROLLEY, PRESSURE GAUGES, PIPES, TORCHES, ETC	1	NOS.			
<b>TOTAL</b>						

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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT (GROUP - C: MAINTENANCE TOOLS FOR MECHANICAL WORKSHOP)



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**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT**

<b>MAINTENANCE TOOLS FOR MECHANICAL WORKSHOP (GROUP - C)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1)	SUPPLY & TESTING OF THE FOLLOWING MAINTENANCE TOOLS FOR MECHANICAL WORKSHOP:					
a)	HEAVY DUTY FULL AUTOMATIC PROFESSIONAL INDUCTION HEATER WITH MAGNETIC PROBES. BEARING BORE (INNER DIA) SIZE: 2-30 INCH, TEMP. RANGE: 0-250 DEG C, TIME CONTROL: 0 - 60 MINUTES.	1	NOS.			
b)	BEARING FITTING TOOL KIT. SHAFT SIZE: 1- 10 INCH	1	NOS.			
c)	BEARING HEATER	1	NOS.			
d)	PROFESSIONAL HEAVY DUTY MULTIFUNCTION HYDRAULIC BEARING PULLER KIT WITH 2-ARMS AND 3-ARMS.	2	NOS.			
<b>TOTAL</b>						

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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT (GROUP - D: MECHANICAL INSPECTION TOOLS)

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**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT**

<b>MECHANICAL INSPECTION TOOLS (GROUP - D)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1	SUPPLY OF FOLLOWING INSTRUMENT INSPECTION TOOLS:					
a)	6 INCH LCD DIGITAL VERNIER CALIPER MAKE MITUTOYO OR EQUIVALENT	3	NOS.			
b)	MICROMETER GAUGE 150 MM MAKE MITUTOYO OR EQUIVALENT	3	NOS.			
c)	PORTABLE ULTRASONIC THICKNESS METER	2	NOS.			
d)	PORTABLE HARDNESS METER	2	NOS.			
e)	VIBROMETER WITH ANALYZER	1	NOS.			
f)	MAGNETIC PARTICLE INSPECTION HAND HELD KIT	1	NOS.			
g)	LASER ALIGNMENT TOOL FOR ROTATING EQUIPMENT	1	NOS.			
<b>TOTAL</b>						

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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF ELECTRICAL WORKSHOP EQUIPMENT (GROUP - E: ELECTRICAL INSPECTION TOOLS)

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**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF ELECTRICAL WORKSHOP EQUIPMENT**

<b>ELECTRICAL INSPECTION TOOLS (GROUP - E)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1)	SUPPLY OF FOLLOWING ELECTRICAL INSPECTION TOOLS:					
a)	UNDERGROUND LOW AND MEDIUM VOLTAGE (220V-11KV) POWER CABLE LOCATOR ALONG WITH SIGNAL GENERATOR AND ACCESSORIES, DEPTH UP TO 03-METERS . MODEL: EZICAT200 UNDERGROUND LOCATOR ALONG WITH EZITRACE SIGNAL GENERATOR AND EZIROD SERVICE TRACER AND ACCESSORIES OR EQUIVALENT	1	NOS.			
b)	UNDERGROUND LOW AND MEDIUM VOLTAGE (220V-11KV) CABLE FAULT LOCATOR WITH TRANSMITTER & RECEIVER SYSTEM. DEPTH UP TO 03-METERS AND LENGTH UP TO 2KM.	1	NOS.			
c)	THERMOGRAPHIC CAMERA (THERMAL IMAGING CAMERA) WITH SOFTWARE AND SD/USB PORT FACILITIES OF FOLLOWING SPECIFICATIONS: IR SENSOR: 1024X768 OR HIGHER, THERMAL SENSITIVITY: <0.02 AT 30 DEG C, MINIMUM FOCUS DISTANCE: 0.4M, 4.3 INCH TOUCH COLOR SCREEN DISPLAY WITH 800X840 PIXELS OR HIGHER LATEST, VISUAL IMAGE: FULL COLOR, INFRARED IMAGE: FULL COLOR IR IMAGE, TEMP. RANGE: -40 DEG C TO 2000 DEG C. OR EQUIVALENT OR HIGHER LATEST MODELS.	1	NOS.			
d)	DIGITAL PHASE SEQUENCE METER. VOLTAGE RANGE: 12 - 1000 VOLTS, FREQUENCY: 15 - 400 HZ, OPERATING TIMER: CONTINUOUS, OPERATING TEMP.: 0 - 60 DEG C, DUST AND WATER PROOF IP: 64	1	NOS.			

**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF ELECTRICAL WORKSHOP EQUIPMENT**

<b>ELECTRICAL INSPECTION TOOLS (GROUP - E)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
e)	<u>SCOPE METER</u>  NUMBER OF CHANNELS: 500 MHZ, 4 CHANNELS, REAL-TIME SAMPLE RATE: 5-GS/S, INPUTS 4X BNC INPUT SCOPE PLUS DMM INPUT, INDEPENDENTLY FLOATING ISOLATED INPUTS UP TO 1000 V CAT III/600 V CAT IV BETWEEN INPUTS, REFERENCES AND GROUND, INPUT SENSITIVITY 2 MV-100 V/DIV PLUS VARIABLE ATTENUATION, TRIGGER TYPES CONNECT-AND-VIEW™, FREE RUN, SINGLE SHOT, EDGE, DELAY, DUAL SLOPE, VIDEO, VIDEO LINE, SELECTABLE PULSE WIDTH, N-CYCLE, SCOPE MEASUREMENTS CURSOR: 7, AUTOMATIC: 30, MAXIMUM RECORD LENGTH SCOPERECORD MODE: 30,000 PTS PER INPUT, SCOPE MODE: 10,000 PTS PER INPUT, DISPLAY: FULL COLOR LCD WITH FAST UPDATE RATE, OPERATING TEMPERATURE 0°C TO 60°C. OR EQUIVALENT AND LATEST SPECS.	2	NOS.			
<b>TOTAL</b>						

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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

## BOQ/BID PRICE SCHEDULE FOR SUPPLY OF INSTRUMENTATION WORKSHOP EQUIPMENT (GROUP - F: INSTRUMENT TESTING TOOLS)



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**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF INSTRUMENTATION WORKSHOP EQUIPMENT**

<b>INSTRUMENT TESTING TOOLS (GROUP - F)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1	SUPPLY OF FOLLOWING INSTRUMENT TESTING TOOLS:					
a)	PORTABLE, EXPLOSION-PROOF IR TEST LAMP P/N TL-2055, TEMPERATURE RANGE: -30° TO +85° C, WITH ONE SPARE RECHARGEABLE BATTERY P/N PSU-15 100 – 240 VAC, MAKE: HONEYWELL OR EQUIVALENT	1	NOS.			
c)	HAND TORCH, EXPLOSION PROOF, IP 64, POWER LED, RECHARGEABLE BATTERY WITH ITS CHARGER, CHARGING VOLTAGE 220VAC, 50HZ, OR EQUIVALENT	2	NOS.			
d)	GLASS THERMOMETER SETS, ASTM CERTIFIED WITH CALIBRATION CERTIFICATE, MAKE THERMCO OR EQUIVALENT RANGE 0-650F, MODEL/CATALOG NUMBER ACC6270F4FC	2	NOS.			
e)	PNEUMATIC PRESSURE CALIBRATOR, SERIES 65-120, RANGE -100 TO 850" WC, DUAL SCALE PSI & INCH WC, WITH FITTING ACCESSORY (FLEXIBLE TUBE & TUBE FITTING), MAKE WALLACE TIERNAN OR EQUIVALENT (WITH CARRING CASE AND ACCESSORIES)	1	NOS.			
f)	MASTER DIGITAL PRESSURE TESTING GAUGE, RANGE UPTO 300 PSI (NPT: 1/4" MALE), 0.05% FULL SCALE ACCURACY, MODEL DPI-104, BATTERY OPERATED WITH ONE SPARE BATTERY, MAKE DRUCK OR EQUIVALENT	1	NOS.			
g)	MASTER DIGITAL PRESSURE TESTING GAUGE, RANGE UPTO 1000 PSI (NPT: 1/4" MALE), 0.05% FULL SCALE ACCURACY, MODEL DPI-104, BATTERY OPERATED WITH ONE SPARE BATTERY, MAKE DRUCK OR EQUIVALENT	1	NOS.			
h)	MASTER DIGITAL PRESSURE TESTING GAUGE, RANGE UPTO 3000 PSI (NPT: 1/4" MALE), 0.05% FULL SCALE ACCURACY, MODEL DPI-104, BATTERY OPERATED WITH ONE SPARE BATTERY, MAKE DRUCK OR EQUIVALENT	1	NOS.			
i)	FIELD COMMUNICATOR 475, INTRINSICALLY SAFE, LATEST MODEL 475 F P 1 E K L U G M T S MAKE: EMERSON	1	NOS.			
j)	MULTIFUNCTION CALIBRATOR, MAKE DRUCK, MODEL DPI 880(RANGE UPTO 100 KHZ) OR EQUIVALENT, COLD JUNCTION (CJ) COMPENSATION: AUTOMATIC/MANUAL, MEASURE MA, VOLTS/MV, HZ/PULSE COUNT, SUPPLY MA, VOLTS/MV, HZ/PULSE COUNT, MEASURE/SIMULATE RTD, TC & RESISTANCE	1	NOS.			
<b>TOTAL</b>						

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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF WORKSHOP

### EQUIPMENT

### (GROUP - G: ELECTRICAL / INSTRUMENT TOOLS)



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**OIL & GAS DEVELOPMENT COMPANY LTD.**  
**BOQ/BID PRICE SCHEDULE FOR SUPPLY OF WORKSHOP EQUIPMENT**

<b>ELECTRICAL/ INSTRUMENT TOOLS (GROUP - G)</b>						
ITEM	MATERIAL DESIGNATION	QTY.	UNIT	UNIT PRICE IN PKR (FOR BASIS)	TOTAL PRICE IN PKR (FOR BASIS)	REMARKS
1	SUPPLY OF FOLLOWING INSTRUMENT MAINTENANCE TOOLS:					
a)	BENCH VICE, SIZE 4", MAKE CRAFTSMAN OR EQUIVALENT	2	NOS.			
b)	BENCH VICE, SIZE 6", MAKE CRAFTSMAN OR EQUIVALENT	2	NOS.			
c)	PIPE VISE , SIZE 4", ORIGIN EUROPEAN OR EQUIVALENT	2	NOS.			
d)	HEAVY DUTY SEPARATE HYDRAULLIC CABLE LUG PUNCHING TOOL KIT. LUG SIZE: 16 SQ. MM TO 630 SQ. MM	2	NOS.			
e)	GASKET CUTTING MACHINE	1	NOS.			
f)	DRILL MACHINE, VOLTAGE 220VAC, FREQUENCY 50 HZ, VARIABLE SPEED, ROTATION IN BOTH CLOCKWISE & ANTICLOCKWISE DIRECTION, POWER RATING 1000W, WITH HAMMERING & DRILLING CAPABILITY AEG OR EQUIVALENT	3	NOS.			
<b>TOTAL</b>						

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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF TELEMETRY WORKSHOP EQUIPMENT (GROUP - H: TELEMETRY TESTING TOOLS)



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1	13-02-2018	Re-issued for Tender	AK	SMHA	MAS
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**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF TELEMETRY WORKSHOP EQUIPMENT**

<b>TELEMETRY TESTING TOOLS (GROUP - H)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1	SUPPLY OF FOLLOWING TELEMETRY TESTING TOOLS:					
a)	PORTABLE, EXPLOSION-PROOF IR TEST LAMP P/N TL-2055, TEMPERATURE RANGE: -30° TO +85° C, WITH ONE SPARE RECHARGEABLE BATTERY P/N PSU-15 100 – 240 VAC, MAKE: HONEYWELL OR EQUIVALENT	1	NOS.			
b)	DIGITAL TEST GUAGE (MASTER GAUGE), RANGE 5000 PSI ALL ACCESSORIES QUICK FITTINGS (MNPT 1/4" OR EQUIVALENT) MAKE: CRYSTAL ENGG.	1	NOS.			
c)	PNEUMATIC HIGH PRESSURE TEST PUMP, MAKE: AMETEK, MODEL: AMETEK JOFRA 65-P014, PRESSURE RANGE: 0 TO 10,000 PSI / 700 BAR TEST MEDIA: OIL WETTED PARTS: ALUMINUM, BRASS, STAINLESS STEEL CONNECTIONS TO TEST OBJECTS: 4 X 1/4" NPT FEMALE	1	NOS.			
d)	HAND TORCH, EXPLOSION PROOF, IP 64, POWER LED, RECHARGEABLE BATTERY WITH ITS CHARGER, CHARGING VOLTAGE 220VAC, 50HZ, OR EQUIVALENT	2	NOS.			
e)	ELECTRONIC TOOL KIT WITH TOOLS (DELUXE ELECTRONICS TOOL KIT - TK-3000)	1	NOS.			
f)	GLASS THERMOMETER SETS, ASTM CERTIFIED WITH CALIBRATION CERTIFICATE, MAKE THERMCO OR EQUIVALENT RANGE 0-650F, MODEL/CATALOG NUMBER ACC6270F4FC	2	SET			
g)	PNEUMATIC PRESSURE CALIBRATOR, SERIES 65-120, RANGE -100 TO 850" WC, DUAL SCALE PSI & INCH WC, WITH FITTING ACCESSORY (FLEXIBLE TUBE & TUBE FITTING), MAKE WALLACE TIERNAN OR EQUIVALENT (WITH CARRING CASE AND ACCESSORIES)	2	NOS.			
h)	THERMOCOUPLE CALIBRATOR FOR K & J TYPE, MAKE FLUKE OR EQUIVALENT	1	NOS.			
i)	MASTER DIGITAL GUAGE, RANGE 500 PSI WITH ALL ACCESSORIES QUICK FITTINGS(1/4" MNPT) CRYSTAL ENGG. OR EQUIVALENT	1	NOS.			
j)	MASTER DIGITAL GUAGE, RANGE 1500 PSI WITH ALL ACCESSORIES QUICK FITTINGS(1/4" MNPT) CRYSTAL ENGG. OR EQUIVALENT	1	NOS.			

**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF TELEMETRY WORKSHOP EQUIPMENT**

<b>TELEMETRY TESTING TOOLS (GROUP - H)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
k)	FIELD COMMUNICATOR 475, INTRINSICALLY SAFE, LATEST MODEL 475 F P 1 E KL U GMT S MAKE: EMERSON	1	NOS.			
l)	DIGITAL THERMOMETER METER (WITH PROBES) FOR K AND J TYPE THERMOCOUPLE MAKE FLUKE OR OR EQUAVALANT.	2	NOS.			
m)	MA SOURCE MAKE/MODEL: FLUKE/725 OR EQUIVALENT WITH DP MODULE FLUKE-700P00 TO MEASURE DP 0 TO 1 IN H2O& PRESSURE MODULE FLUKE- 700P27 TO MEASURE , MEASURE/SOURCE PRESSURE, SOURCE/SIMULATE VOLTS, MA, THERMOCOUPLES, RTDS, FREQUENCY, AND OHMS TO CALIBRATE TRANSMITTERS.	1	SET			
n)	FLUKE 700 PTPK HYDRAULIC TEST PRESSURE KIT.	1	NOS.			
o)	USB TO RS-232 CONVERTER MAKE MOXA EQUIVALENT	1	NOS.			
p)	RS-232 TO 485 CONVERTER MAKE: MOXA OR EQUIVALENT	1	NOS.			
q)	FLUKE PRESSURE MODULES 0-100PSI, 0-500PSI, 0-1500 PSI	1 each	NOS.			
r)	FREQUENCY / LOOP CALIBRATOR (DPI 841/842), MAKE DRUCK OR EQUIVALENT, CPM, CPH AND TOTALIZING COUNTER, MA MEASURE, SWITCH TEST AND 24V LOOP POWER, SINE, SQUARE AND TRIANGULAR WAVEFORMS	1	NOS.			
<b>TOTAL</b>						

**NOTE:**

- 1) THE ABOVE PRICE SHALL BE INCLUSIVE OF ALL TAXES, EXCEPT GST.
- 2) GENERAL SALES TAX MUST BE QUOTED SEPARATELY.



## Zishan Engineers (Pvt.) Ltd.

An ISO 9001-2015 certified company,  
47/F, Block 6, PECHS, Karachi-Pakistan  
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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT

### (GROUP - I: LIFTING EQUIPMENT FOR MECHANICAL WORKSHOP)



0	16-11-2017	Issued for Tender	AK	SMHA	MAS
<b>Rev.</b>	<b>Date</b>	<b>Description</b>	<b>Prepared By</b>	<b>Checked By</b>	<b>Approved By</b>



**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT**

<b>LIFTING EQUIPMENT FOR MECHANICAL WORKSHOP (GROUP - I)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1)	SUPPLY, INSTALLATION & TESTING OF THE FOLLOWING LIFTING EQUIPMENT FOR MECHANICAL WORKSHOP:					
a)	MOBILE OVERHEAD CRANE WITH HOIST ARRANGEMENT & SITE INSTALLATION (LIFTING CAPACITY: 15 TONS)	1	NOS.			
<b>TOTAL</b>						

**NOTE:**

- 1) THE ABOVE PRICE SHALL BE INCLUSIVE OF ALL TAXES, EXCEPT GST.
- 2) GENERAL SALES TAX MUST BE QUOTED SEPARATELY.
- 3) SPECIFICATIONS & DATASHEETS OF ABOVE MENTIONED EQUIPMENT ARE ATTACHED IN VOLUME-II OF THE TENDER DOCUMENT. BIDDER IS REQUESTED TO SUPPLY / INSTALL THE ABOVE IN ACCORDANCE WITH THE SAID DATASHEETS / SPECIFICATIONS.



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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT (GROUP - J: AIR COMPRESSOR)



Rev.	Date	Description	Prepared By	Checked By	Approved By
0	13-02-2018	Issued for Tender	AK	SMHA	MAS

**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT**

<b>AIR COMPRESSOR (GROUP - J)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1)	SUPPLY & TESTING OF THE FOLLOWING MECHANICAL MAINTENANCE MACHINES:					
a)	ENGINE DRIVEN AIR COMPRESSOR	1	NO.			
<b>TOTAL</b>						

**NOTE:**

- 1) THE ABOVE PRICE SHALL BE INCLUSIVE OF ALL TAXES, EXCEPT GST.
- 2) GENERAL SALES TAX MUST BE QUOTED SEPARATELY.
- 3) SPECIFICATIONS & DATASHEETS OF ABOVE MENTIONED EQUIPMENT ARE ATTACHED IN VOLUME-II OF THE TENDER DOCUMENT. BIDDER IS REQUESTED TO SUPPLY / INSTALL THE ABOVE IN ACCORDANCE WITH THE SAID DATASHEETS / SPECIFICATIONS.



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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT (GROUP - K: PUMPS)



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<b>Rev.</b>	<b>Date</b>	<b>Description</b>	<b>Prepared By</b>	<b>Checked By</b>	<b>Approved By</b>

**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT**

<b>PUMPS (GROUP - K)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1)	SUPPLY & TESTING OF THE FOLLOWING MECHANICAL MAINTENANCE MACHINES:					
a)	PORTABLE PUMP	1	NO.			
b)	PNEUMATIC HIGH PRESSURE TEST PUMP, RANGE -14 TO 3000PSI, NPT 1/4", ADJUSTMENT RESOLUTION UP TO 0.1 MBAR. MAKE: ADDITEL, MODEL: 920, OR EQUIVALENT	1	NO.			
<b>TOTAL</b>						

**NOTE:**

- 1) THE ABOVE PRICE SHALL BE INCLUSIVE OF ALL TAXES, EXCEPT GST.
- 2) GENERAL SALES TAX MUST BE QUOTED SEPARATELY.
- 3) SPECIFICATIONS & DATASHEETS OF ABOVE MENTIONED EQUIPMENT (1.a) ARE ATTACHED IN VOLUME-II OF THE TENDER DOCUMENT. BIDDER IS REQUESTED TO SUPPLY / INSTALL THE ABOVE IN ACCORDANCE WITH THE SAID DATASHEETS / SPECIFICATIONS.



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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF WORKSHOP

### EQUIPMENT

### (GROUP - L: COMBINATION PRESSURE TEST BENCH)



Rev.	Date	Description	Prepared By	Checked By	Approved By
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**OIL & GAS DEVELOPMENT COMPANY LTD.**  
**BOQ/BID PRICE SCHEDULE FOR SUPPLY OF WORKSHOP EQUIPMENT**

<b>COMBINATION PRESSURE TEST BENCH (GROUP - L)</b>						
ITEM	MATERIAL DESIGNATION	QTY.	UNIT	UNIT PRICE IN PKR (FOR BASIS)	TOTAL PRICE IN PKR (FOR BASIS)	REMARKS
1	SUPPLY OF VLAVE TEST EQUIPMENT					
a)	COMBINATION PRESSURE TEST BENCH FOR TESTING OF PSVS & CONTROL VALVES FROM 1" TO 20" (PRESSURE RANGE: 0-3000 PSI, WITH FITTING ARRANGEMENT TO SUITE RTJ & RF FLANGE CONNECTIONS), WITH AIR (BOOSTER) AND STORAGE SYSTEM MAKE: VENTIL/UNIGRIND OR EQUIVALENT	1	NOS.			
<b>TOTAL</b>						

**NOTE:**

- 1) THE ABOVE PRICE SHALL BE INCLUSIVE OF ALL TAXES, EXCEPT GST.
- 2) GENERAL SALES TAX MUST BE QUOTED SEPARATELY.

**ANNEXURE – III**

**BIDDER/SUPPLIER'S PROFILE**



**ANNEXURE – III****BIDDER/SUPPLIER'S PROFILE**

The bidder/supplier is required to provide the information/details given in this document separately.

- 1) Name of Company (including Fax, Telephone, email, website) complete address of the corporate/Head Office as well as office dealing with sales to Pakistan and adjoining region.
- 2) Certified copy of Certificate of incorporation (in case of companies) or Registration Certificate (in case of firms).
- 3) Details of company's core business.
- 4) Manufacturing capacity of mechanical, electrical, instrumentation and Telemetry Workshop Equipment (of the type/range) required by OGDCL with list of customers/buyers.
- 5) Production/sales of mechanical, electrical, instrumentation and Telemetry Workshop Equipment (of the type range) required by OGDCL during last five (05) years.
- 6) Certified copies of financial statements/ annual reports for the last three (03) years (for companies & firms) or certified copies of Tax Returns for the last three (03) years of local individuals.
- 7) Certified copies for statement of Bank Accounts for the last twelve (12) months containing name, phone no. of Bank Manager.
- 8) Valid National Tax No. (NTN) and GST Registration Certificate (for local bidder).
- 9) Litigation Details (if any) with customers during last ten (10) years.

**ANNEXURE – IV-A**

**INTEGRITY AND ETHICS UNDERTAKING**

**ANNEXURE-IV-A**

(On official letter-head of the bidder)  
To be signed by the  
Chief Executive of the  
bidding company or a representative duly  
authorized by abroad resolution.

**Integrity and Ethics Undertaking**

We hereby commit and undertake to observe the following principles during our participation in the tender process and during the contract execution:

- a) That we will not directly or through any other person or firm, offer promise or give to any of the employees of OGDCL involved in the tender process or execution of the contract any gain, pecuniary benefit or facilitation payment in order to obtain in exchange any advantage of any kind whatsoever during the process or during the execution of contract.
- b) That we have not and will not enter with other bidders into any undisclosed agreement or understanding either formal or informal to restrict competitiveness or to cartelise in the bidding process.
- c) That we will ensure that the remuneration of agents (if engaged) is appropriate and for legitimate service only.
- d) That we will not use subcontracts, purchase orders or consulting agreements as means of channeling payments to employees of OGDCL.
- e) That we will not commit any offence under the Pakistan Penal Code, Prevention of Corruption Act or National Accountability Ordinance to achieve any exchange, gain or benefit during the tender process or the execution of contract.

We further understand and acknowledge that any violation or transgression of the above mentioned principles will attract disqualification from the tender process and may also result in permanent exclusion from further contract award processes.

We also accept and understand to respect and uphold OGDCL's absolute right to resort to and impose such disqualification, debarment or execution.

For and on behalf of \_\_\_\_\_

Tender No. \_\_\_\_\_

**ANNEXURE – IV-B**

**INTEGRITY AND ETHICS UNDERTAKING**

**ANNEXURE-IV-B**

(On official letter-head of the bidder)  
To be signed by the  
Chief Executive of the  
bidding company or a representative duly  
authorized by abroad resolution.

**Integrity and Ethics Undertaking**

We hereby commit and undertake to observe the following principles during our participation in the contract execution.

- a) That we will not directly or through any other person or firm, offer promise or give to any of the employees of OGDCL involved in or relevant to the execution of the contract any gain, pecuniary benefit or facilitation payment in order to obtain in exchange any advantage of any kind whatsoever during the execution of contract or at any stage thereafter.
- b) That we did not enter with any bidder into any undisclosed agreement or understanding either formal or informal to restrict competitiveness or to cartelise in the bidding process.
- c) That we will ensure that the remuneration of agents (if engaged) is appropriate and for legitimate services only.
- d) That we will not use subcontracts, purchase orders or consulting agreements as means of channeling payments to employees of OGDCL.
- e) That we will not and have not committed any offence under the Pakistan Panel Code, Prevention of Corruption Act or National Accountability Ordinance to achieve any advantage, gain or benefit during the tender process or the execution of contract.

We further understand and acknowledge that any violation or transgression of the above mentioned principles will attract disqualification from doing business with OGDCL and may also result in permanent exclusion from further contract award processes.

We also accept and understand to respect and uphold OGDCL's absolute right to resort to and impose such disqualification, debarment or execution.

For and on behalf of \_\_\_\_\_

Tender No. \_\_\_\_\_

Contract No. \_\_\_\_\_

**ANNEXURE – V**

**BLACKLISTING PROCEDURE FORM TENDER**

**AFFIDAVIT**

I,.....S/o....., aged.....years, working as  
Proprietor/Managing Partner/ Director of M/s.....having its  
registered office at..... do hereby solemnly  
affirm and declare on oath as under :

1. That I am competent to swear this affidavit being proprietor/one of the partners/ Director of  
M/s.....
2. That M/s.....is a proprietorship/partnership firm/company is  
participating in tender process conducted by OGDCL.
3. That I hereby confirm and declare that none of my/ our group/ sister concern/ associate company  
is participating/ submitting this tender.
4. That I hereby confirm and declare that my/our firm/company M/s..... and  
my/ our firm/ group/ company/ sister concern / as sociate company have not been black listed/ de-  
listed any Institutional agencies/ Govt. Deptt./ Public Sector Undertaking.
5. That there is no change in the Name & Style, Constitution and Status of the firm, after Pre-  
qualification.
6. That I further undertake that in case any of the facts contained above and in our application is  
found other-wise or incorrect or false at any stage, my/our firm/ company/ group/sister concerns/  
associate companies shall stand debarred from the present and future tenders of the OGDCL.

( Signature of the Proprietor/ Managing Partner/Director with Seal )

**DEPONENT**

Verified at ..... on..... that the  
contents of paras 1 to 6 of this affidavit are true and correct to best of my knowledge and no part  
of this is false and nothing material has been concealed or falsely stated therein.

( Signature of the Proprietor/ Managing Partner/ Director with Seal )

DEPONENT

(Signature & Seal of Notary)

**ANNEXURE – VI**

**DATA SUMMARY SHEET (TECHNICAL BID) FOR**  
**GROUP-A/B/C/D/E/F/G/H/I/J/K/L**



**ANNEXURE –VI**

**DATA SUMMARY SHEET FOR**  
**GROUP-A / B / C / D / E / F / G / H / I / J / K / L**  
**( To be Submitted in Technical Bid )**

Following information regarding Mechanical Workshop Equipment being procured must be stated categorically:

COMPLETE NAME AND ADDRESS OF MANUFACTURER

---

---

---

---

COMPLETE NAME AND ADDRESS OF SUPPLIER

---

---

---

---

VALIDITY OF BID

---

DELIVERY PERIOD

---

BANK GUARANTEE AS EARNEST MONEY  
TECHNICAL BID

Yes  No

AMOUNT OF BANK GUARANTEE

COMPLETE NAME AND ADDRESS OF LC BENEFICIARY/SUPPLIER  
WITH BANK NAME, BRANCH NAME & ACCOUNT NO.

---

---

**Sign & Seal**

**ANNEXURE – VII**

**BIDDING FORM FORMAT FOR**  
**GROUP-A/B/C/D/E/F/G/H/I/J/K/L**

**ANNEXURE – VII****BIDDING FORM FOR**  
**GROUP -A/B/C/D/E/F/G/H/I/J/K/L**

(To be typed on Bidder's Letterhead)

Dated: \_\_\_\_\_

Tender Enquiry No..\_\_\_\_\_

To,

Oil & Gas Development Company Limited  
OGDCL House, Jinnah Avenue,  
Blue Area, Islamabad, Pakistan.

Gentlemen,

1. Having Examined the Conditions of Contract and specifications, the receipt of which is here acknowledged, we the undersigned, offer to supply & deliver \_\_\_\_\_ in conformity with drawings, conditions of contract and specifications for the sum of \_\_\_\_\_ or such other sums as may be ascertained in accordance with the said conditions.
2. If our Bid is accepted we shall commence delivery within \_\_\_\_\_ days and Completed delivery of all the items specified in the Contract within \_\_\_\_\_ days from the date of receipt of your Letter of Credit.
3. If our tender is accepted we shall obtain the Guarantee of a scheduled Bank or other sureties (to approved by you) to be jointly and severally bound with us in a sum not exceeding ten percent (10%) of the Contract sum for due performance of the Contract as per format at **Annexure-IX**.
4. We agree to abide by this Tender for the period of one hundred and eighty (180) days from the date fixed for opening the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
5. Until a formal Agreement is prepared and executed, this Bid, together with your acceptance thereof, shall constitute a binding Contract between us.
6. We understand that you are not bound to accept the lowest or any tender you may receive.

Dated this \_\_\_\_\_ day of \_\_\_\_\_

Signature \_\_\_\_\_ in the Capacity of

\_\_\_\_\_ Duly authorized to sign

Tenders for and on behalf of (Name of the firm in block capitals) Address

\_\_\_\_\_

Fax \_\_\_\_\_ Telephone \_\_\_\_\_ Signature

Witness: - 1. \_\_\_\_\_ 2. \_\_\_\_\_

**ANNEXURE – VIII**

**DATA SUMMARY SHEET (FINANCIAL BID) FOR**  
**GROUP-A/B/C/D/E/F/G/H/I/J/K/L**

**ANNEXURE -VIII**

**DATA SUMMARY SHEET FOR**  
**GROUP-A / B / C / D / E / F / G / H / I / J / K / L**  
**( To be Submitted in Financial Bid )**

Following information regarding Mechanical Workshop Equipment being procured must be stated categorically:

NAME AND ADDRESS OF MANUFACTURER/SUPPLIER

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

COUNTRY OF ORIGIN

\_\_\_\_\_

VALIDITY OF BID

\_\_\_\_\_

DELIVERY PERIOD

\_\_\_\_\_

BANK GUARANTEE ATTACHED WITH  
TECHNICAL BID

Yes  No

TOTAL FOR PRICE:  
(INCLUSIVE OF GST)

\_\_\_\_\_

TOTAL FOR PRICE:  
(INCLUSIVE OF ALL TAXES EXCEPT GST)

\_\_\_\_\_

GST REGISTRATION NO.:

\_\_\_\_\_

COMPLETE NAME AND ADDRESS OF LC BENEFICIARY/SUPPLIER  
WITH BANK NAME, BRANCH NAME & ACCOUNT NO.

\_\_\_\_\_

CONFIRMATION THAT QUOTED PRICED IS FIRM/FIXED AND NOT BASED ON ANY PRICE ADJUSTABLE  
FORMULA/ANY ESCALATION

YES NO

CHECK LIST:

HAVE YOU COMPLETED THE BID PRICE SCHEDULE

YES NO

\_\_\_\_\_  
**Sign & Seal**

**ANNEXURE – IX**

**PERFORMANCE BOND BANK GUARANTEE FOR**  
**GROUP-A/B/C/D/E/F/G/H/I/J/K/L**

**ANNEXURE – IX****PERFORMANCE BANK GUARANTEE FOR  
GROUP-A/B/C/D/E/F/G/H/I/J/K/L**

Oil & Gas Development Company Limited  
OGDCL House, Jinnah Avenue, Blue Area,  
Islamabad, (Pakistan)

Dear Sir,

Ref; our Bank Guarantee No. \_\_\_\_\_ in the sum of  
\_\_\_\_\_ Account \_\_\_\_\_ in consideration of  
you having entered into Contract  
No. \_\_\_\_\_ Dated \_\_\_\_\_ with \_\_\_\_\_  
\_\_\_\_\_ Called Supplier and in consideration for value received from Supplier. We hereby agree  
and undertake as followings:

1. To make unconditional payment to you as called upon of (10%) ten percent of the Contract value of the contract price mentioned in the said contract, on your written FIRST and SIMPLE demand without further recourse, question or reference to SUPPLIER or any other person in the event of default, non-performance or non-fulfillment by SUPPLIER of his obligations, liabilities, responsibilities under the said contract of which you shall be the sole judge.
2. The accept written intimation from you as conclusive and sufficient evidence of the existence of the default or breach as aforesaid on the part of SUPPLIER and to make payment immediately and forthwith upon receipt of your FIRST and SIMPLE written demand.
3. This Performance Bond shall remain valid and in full force and effect upto \_\_\_\_\_ or issue of statement of discharge by your authorized representative or return of original guarantee whichever is earlier.
4. That no grant of time or other indulgence to, amendment in the terms of the Contract by Agreement between the parties, or imposition or Agreement with SUPPLIER in respect of the performance of his obligations under the said Agreement, with or without notice to us, shall in any manner discharge or otherwise affect this Guarantee and our liabilities and commitments there under.

5. This is an independent and direct obligation guarantee and shall be binding on us and our successors interest and shall be Irrevocable.
6. This guarantee shall not be affected by any change in the constitution of the Guarantor Bank or the constitution of the SUPPLIER.
7. The Guarantor Bank Warrants and represents that it is fully authorized, empowered and competent to issue this guarantee.

(B A N K E R S)



**ANNEXURE – X**

**GROUP WISE BREAK-UP OF EARNEST MONEY VALUE**  
**(GROUP-A/B/C/D/E/F/G/H/I/J/K/L)**

ANNEXURE-XOIL & GAS DEVELOPMENT COMPANY LTD.SUPPLY OF MECHANICAL, ELECTRICAL, INSTRUMENTATION & TELEMETRY WORKSHOP EQUIPMENT (T.E-3136)GROUP WISE BREAK-UP OF EARNEST MONEY VALUE

S. No.	DESCRIPTION	EARNEST MONEY AMOUNT (PKR)
1	Group - A: Mechanical Maintenance Machines	330,000
2	Group - B: Welding / Cutting Machines for Mechanical Workshop	135,000
3	Group - C: Maintenance Tools for Mechanical Workshop	45,000
4	Group - D: Mechanical Inspection Tools	220,000
5	Group - E: Electrical Inspection Tools	170,000
6	Group - F: Instrument Testing Tools	60,000
7	Group - G: Electrical / Instrument / Telemetry Maintenance Tools	20,000
8	Group - H: Telemetry Testing Tools	120,000
9	Group - I: Lifting Equipment for Mechanical Workshop	330,000
10	Group - J: Air Compressor	15,000
11	Group - K: Pumps	20,000
12	Group - L: Combination Pressure Test Bench	250,000
<b>Total Estimated Cost (PKR)</b>		<b>1,715,000</b>

**ATTACHMENT – I**  
**TERMS AND CONDITIONS OF INLAND**  
**LETTER OF CREDITS FOR**  
**GROUP-A/B/C/D/E/F/G/H/I/J/K/L**

**ATTACHMENT – I****TERMS AND CONDITIONS OF THE INLAND L/C**  
**(GROUP-A/B/C/D/E/F/G/H/I/J/K/L)****1.0 IN-CHARGE STORE KUNNAR**

The material must be consigned to following address:

In-Charge Store Kunnar  
OGDCL Kunnar LPG and Oil Field,  
Tando Jam, District Hyderabad,  
Sindh, Pakistan.  
Tel: +92-(0)22-2789250  
Fax: +92-(0)22-2761410  
E-mail: store\_kunnar@ogdcl.com

**2.0 PACKING**

The Packing of the material must conform to the International Standards.

**3.0 SHIPPING DOCUMENTS**

Shipping documents shall normally consist of the following:

- 3.1 Clean Truck Receipt/Carrier Receipt showing freight paid & indicating Contract / Inland LC details.
- 3.2 Original detailed commercial invoice showing material description, quantity unit price and total price strictly in line with the Contract and verified by OGDCL.
- 3.3 Annexure-C
- 3.4 Copy of applicable GST invoice.
- 3.5 Copy of NTN Certificate
- 3.6 Duly Signed & Stamped Note
- 3.7 Packing list

- 3.8 Mill Inspection/Quality Certificates.
- 3.9 Warranty Certificate
- 3.10 Third Party Inspection Certificate from any of the following (if required)
- Lloyds
  - SGS
  - TUV Austria Bureau
  - Velosi
- 3.11 Certificate of origin.
- 3.12 Certificate issued by OGDCL that ordered equipment/material has been received at delivery location and inspected and accepted

#### 4.0 **INSTRUCTIONS FOR COMPLETING SHIPPING DOCUMENTS**

- 4.1 The shipping invoice should be marked on top in capital words:
- a) Complete, first and last consignment (if all the contractual material is shipped in one lot).
  - b) First partial Shipment/Second partial shipment (and so on) Final and last shipment as the case may be if shipments are effected in parts.
- 4.2 All invoices should be signed, and must indicate value of the each item total value.

#### 5.0 **SHIPMENT INTIMATION**

- 5.1 The beneficiary within 24-48 hours of making shipment must send Fax to:
- i. In-charge Store Kunnar  
OGDCL Kunnar LPG and Oil Field,  
Tando Jam, District Hyderabad,  
Sindh, Pakistan.  
Tel: +92-(0)22-2789250  
Fax: +92-(0)22-2761410  
E-mail: [store\\_kunnar@ogdcl.com](mailto:store_kunnar@ogdcl.com)

- ii. Manager (SCM)-Foreign (email [irshad\\_muhammad@ogdcl.com](mailto:irshad_muhammad@ogdcl.com))
  - a) L/C number and Contract No.
  - b) Total FOR value of the consignment shipped.
  - c) No. of boxes/package/pieces etc.
  - d) Net and gross weights.
  - e) Expected time of arrival (ETA) of material.

## 6.0 **INSTRUCTION REGARDING TRANSMISSION/NEGOTIATION OF SHIPPING DOCUMENTS**

### 6.1 **Original/Negotiable Documents**

- a) The beneficiary immediately upon making shipments(s) should negotiate the original clean shipping documents free from any discrepancy with negotiating bank as indicated in the L/C.
- b) If clean documents free from discrepancy are not negotiated within negotiation period mentioned in the L/C. or if the documents are withheld by the Bank on account of any discrepancy whatsoever the demurrage or financial impact if any incurred due to late negotiation of clean documents will be on beneficiary's account.
- c) Original/negotiable documents must contain at least four sets of the shipping documents mentioned under Clause No. 5 above including one set of the parts catalogue, brochures, technical literature, etc., invariably.
- d) The original shipping documents should be dispatched through courier service by the negotiating bank at the beneficiary's cost within 24-48 hours after receipt from the beneficial.
- e) The discrepant documents with minor discrepancies will be accepted subject to the consent of Procurement Department. Due to the discrepancies reported by L/C opening bank will be on beneficiary account.

### 6.2 **Non-Negotiable Documents**

Three (03) complete sets of non-negotiable shipping documents including one set of parts catalogue brochures/technical literature etc. should be received by Incharge Store (Kunnar Field).

## 7.0 **LIQUIDATED DAMAGES**

If the contractor fails to deliver any or all of the goods within the time period(s) specified in the Contract, the Purchaser shall, without prejudice to other remedies under the contract, deduct from the contract price / Bank Guarantee as liquidated damages, a sum not more than 0.5% of the contract price per week or part thereof for first four weeks, 1.00% per week for next four weeks and 1.5% per week exceeding four weeks up to maximum extent of 10% of the contract value.

In case the Purchaser is satisfied that the delayed / defective shipment was due to some mistake or circumstances beyond the control of the contractor and the contractor has not intentionally or negligently contributed in the delay, the Purchaser may impose Liquidated Damages for not more than a sum equivalent to 0.5% of the delayed or defective shipment per week or part thereof for first two weeks, 1.00 % per week for next three weeks and 1.5% per week exceeding five weeks but not exceeding 10% of the contract value of the delayed/ defective shipment provided that the contractor takes immediate remedial measures for the-replacement of defective shipment and takes prompt steps to mitigate the delay. The Purchaser may however, impose Liquidated Damages as per (a) above if the delayed or defective shipment has affected the project completion schedule or has resulted in production losses.

Even after imposition of LDs, if the supplier fails to materialize the delivery (material and or services); the Purchaser reserves the right to cancel Purchase order/contract/LC and to forfeit the Guarantee (if applicable) after intimating the supplier for such cancellation / forfeiture.

## 8.0 **PERFORMANCE BANK GUARANTEE**

Payment against this credit will not be released by the corresponding bank to the beneficiary till receipt of copy of performance bond required to be submitted to OGDCL against the contract against which this letter of credit has been established.

## 9.0 **AMENDMENT/EXTENSION OF L/C**

The beneficiary will positively confirm shipment of all ordered materials within L/C validity or made request for extension of shipment and negotiation dates at least 15 to 30 days prior to the expiry of L/C. If shipment is not effected within L/C validity or request for extension is not received 15 to 30 days prior to expiry of L/C validity, no request for grant of extension in shipment and negotiation period will be entertained under any circumstances. In case of extension in shipment/negotiation period, the beneficiary will be required to extend the validity of his performance bond (if provided) accordingly. All charges on this account will be on beneficiary's account.

10.0 **CHARGES FOR L/C ESTABLISHMENT**

- 10.1 All Charges of the bank for credit opening will be borne by the OGDCL.
- 10.2 All charges of corresponding bank such as negotiation of documents, adding confirmation to credit etc. will be to the account of beneficiary.
- 10.3 All charges for amendments/extension in L/C will be to the account of beneficiary.





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**OIL & GAS DEVELOPMENT COMPANY LTD.**

**TENDER ENQUIRY NO. PROC-FC/CB/PROJ/KPD-3136/2017**

**(SECTION – IV)**

**SCOPE OF SUPPLY**

**FOR**

**SUPPLY OF MECHANICAL, ELECTRICAL,  
INSTRUMENTATION & TELEMETRY WORKSHOP  
EQUIPMENT**



1	23-02-2018	Issued for Tender	AK	SMHA	MAS
<b>Rev.</b>	<b>Date</b>	<b>Description</b>	<b>Prepared By</b>	<b>Checked By</b>	<b>Approved By</b>

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### ANNEXURES:

ANNEXURE – I : SPECIFICATIONS

ANNEXURE – II : DATA SHEETS

ANNEXURE – III : BOQ/BID PRICE SCHEDULE

ANNEXURE – IV : VENDOR DRAWINGS FOR MECHANICAL WORKSHOP &  
MAINTENANCE BUILDING

## 1.0 **INTRODUCTION**

Oil & Gas Development Company Limited (OGDCL) is operating oil/gas fields in various parts of Islamic Republic of Pakistan. OGDCL aims to construct a gas processing facility Gas Processing Plant (GPP) named as KPD-TAY Phase-II to process raw gas. The processed sales gas from the facility will be supplied to gas transmission/distribution Company operating in the area. The LPG will also be extracted from the gas stream. The facilities to be constructed will include:

- Wellhead Facilities
- Surface Gas Gathering Network
- Gas Processing Plant (including Amine Sweetening Unit)
- LPG and Condensate Recovery
- Produced Water Handling System
- LPG & Condensate Storage & handling System

The gas processing facility shall treat 250 MMSCFD raw gas with a margin of 10%. The 250 MMSCFD raw gas shall yield 225.2 MMSCFD sales gas 5058 bbls/day condensate and 413 MT/day LPG.

OGDCL has engaged Zishan Engineers (Pvt.) Ltd. (ZEL) as Consultant for the project.

## 2.0 **GENERAL**

### 2.1 **Definitions**

- |                   |   |  |
|-------------------|---|--|
| Owner / Company   | : | Oil & Gas Development Company (OGDCL)  |
| Consultant        | : | Party which carries out all or part of the design, engineering of the Project. Zishan Engineers (Pvt.) Ltd. (ZEL) is the Consultant. |
| Vendor / Supplier | : | The organization, firm or agency with whom order for the supply of equipment and or material has been placed.                        |

### 2.2 **Errors or Omissions**

- 2.2.1 The review and comment by the Company of any Vendor / Supplier's drawings, procedures or documents shall only indicate acceptance of general requirements and shall not relieve the Vendor / Supplier of its obligations to comply with the requirements of this specification and other related parts of the Tender Documents.

2.2.2 Any errors or omissions noted by the Vendor / Supplier in this Specification shall be immediately brought to the attention of the Company/Consultant.

### 2.3 **Deviations**

All deviations to this specification, other specifications or attachments shall be brought to the knowledge of the Company as a section in the bid. All deviations made during the procurement shall be with written approval of the Company prior to execution of the work. Such deviations shall be shown in the documentation prepared by the Vendor / Supplier.

### 2.4 **Conflicting Requirements**

In the event of any conflict, inconsistency or ambiguity between the Vendor / Supplier's scope of supply, this Specification, National Codes & Standards, referenced in the Project Specification or any other documents, the Vendor / Supplier shall refer to the COMPANY whose decision shall prevail.

### 2.5 **Reporting Procedure**

2.5.1 A reporting and documentation system shall be agreed between the Vendor / Supplier and the Company/Consultant for the status of procurement and shipment of the equipment/material to be supplied / installed under this specification. Vendor / Supplier shall provide reports and summaries for procurement in conformance with a schedule approved by Company.

2.5.2 Daily, weekly monthly and run summaries of all major aspects of the production process shall be provided as reports to the Company/Consultant.

#### 2.5.3 **Third Party Inspection**

In addition to the inspection and witnessing of tests by the inspectors during the manufacturing and shipment of the Equipment/Material, Company may appoint a third party or its own inspector for witnessing of the inspection and tests to be carried out by Vendor / Supplier under this specification.

## 2.6 **Unit Responsibility**

The Vendor / Supplier shall assume full unit responsibility for its and free-supplied equipment & material and all ancillaries. The Vendor / Supplier shall handle and expedite drawings and data, and supervise and coordinate all inspection and testing specified.

Vendor / Supplier shall guarantee that all material and parts included in the construction shall be new, unused and of the required/specified grade.

## 2.7 **Documentation**

- a) Documents, calculation sheets, drawings, etc., to be submitted to the Company shall be in the English Language.
- b) Unless otherwise specified, the US Customary System Units shall be used in documents and drawings, except that pipe sizes, flange sizes and bolts/nuts shall be indicated in inches.
- c) The form of fabrication drawings and documents may be as per the Contractor's Standards. However, the format of the data sheet will be submitted to Company for approval.
- d) Fabrication drawings and documents shall be submitted for the approval of the Company. But, such approval of the Company shall in no way relieve the Vendor / Supplier of his obligations with respect to such drawings and documents.
- e) Variations from or additions to this specification shall be called to the attention of the Company and approved in writing by the Company prior to starting fabrication.
- f) Welding procedure specification and welding qualification record shall be submitted to the Company prior to the start of fabrication.
- g) Information for installation, operating, maintenance or inspection purposes shall be submitted to Company.

### 3.0 **SCOPE OF SUPPLY**

Supply of Tools / Equipment / Machines for Mechanical, Electrical & Instrumentation Workshop & Maintenance Building, as per Group Wise BOQs / Bid Price Schedules attached with the Tender Document & the list provided below, is in Vendor / Supplier's scope:

#### 3.1 **Group-A: Mechanical Maintenance Machines**

S.No.	Description	Qty.	Unit
1.	Centre Lathe Machine	1	No.
2.	Universal Drilling / Boring Machine	1	No.
3.	Grinding / Cutting Machine	2	Nos.
4.	Power Hack Saw	1	No.

#### 3.2 **Group-B: Welding / Cutting Machines for Mechanical Workshop**

S.No.	Description	Qty.	Unit
1.	Engine Driven Stick & Tig Welding Machine with Air Cooled accessories and Wheel Mounted Skid	1	No.
2.	TIG Welding Machine (Output Current Range up to 500 AMPS AC/DC & Duty Cycle 60 Hz)	2	Nos.
3.	Plasma Cutting Torch Set	1	No.
4.	Oxy-Acetylene Welding Set with all accessories including Cylinders, Trolley, Pressure Gauges, Pipes, Torches, etc.	1	No.

#### 3.3 **Group-C: Maintenance Tools for Mechanical Workshop**

S.No.	Description	Qty.	Unit
1.	Heavy duty full automatic professional induction heater with magnetic probes. Bearing bore (inner dia) Size: 2-30 inch, temp. Range: 0-250 deg C, Time Control: 0 - 60 minutes.	1	No.
2.	Bearing Fitting Tool Kit. Shaft Size: 1- 10 inch	1	No.
3.	Bearing Heater	1	No.
4.	Professional heavy duty multifunction hydraulic bearing puller kit with 2-Arms and 3-Arms.	2	Nos.

### 3.4 Group-D: Mechanical Inspection Tools

S. No	Description	Qty.	Unit
1.	6 inch LCD Digital Vernier Caliper make Mitutoyo or equivalent	3	Nos.
2.	Micrometer gauge 150 mm make Mitutoyo or equivalent	3	Nos.
3.	Portable Ultrasonic Thickness Meter	2	Nos.
4.	Portable Hardness Meter	2	Nos.
5.	Vibrometer with Analyzer	1	No.
6.	Magnetic Particle Inspection Hand Held Kit	1	No.
7.	Laser Alignment Tool for Rotating Equipment	1	No.

### 3.5 Group-E: Electrical Inspection Tools

S. No	Description	Qty.	Unit
1.	Underground low and medium voltage (220V-11kv) power cable locator along with signal generator and accessories, depth up to 03-meters. Model: Ezicat200 underground locator along with Ezitrace signal generator and Ezirod service tracer and accessories or equivalent	1	No.
2.	Underground low and medium voltage (220v-11kv) cable fault locator with transmitter & receiver system. Depth up to 03-meters and length up to 5km.	1	No.
3.	Thermographic camera (thermal imaging camera) with software and SD/USB port facilities of following specifications: IR sensor: 1024x768 or higher, thermal Sensitivity: <0.02 at 30 deg C, Minimum Focus Distance: 0.4m, 4.3 inch touch color screen display with 800x840 pixels or higher latest, Visual Image: full color, Infrared Image: full color IR image, Temp. Range: -40 deg C to 2000 deg C. or equivalent or higher latest models.	1	No.

S. No	Description	Qty.	Unit
4.	Digital Phase Sequence Meter. Voltage Range: 12 - 1000 Volts, Frequency: 15 - 400 Hz, Operating Timer: Continuous, Operating Temp.: 0 - 60 deg C, Dust and Water Proof IP: 64	1	No.
5.	<u>Scope Meter</u> Number of Channels: 500 MHz, 4 Channels, Real-Time Sample Rate: 5-GS/S, Inputs 4x BNC input scope plus DMM input, Independently floating isolated inputs up to 1000 V Cat III/600 V CAT IV between inputs, references and ground, input sensitivity 2 MV-100 V/DIV plus variable attenuation, trigger types Connect-and-View™, free run, single shot, edge, delay, dual slope, video, video line, selectable pulse width, N-cycle, scope measurements Cursor: 7, Automatic: 30, maximum record length scoperecord Mode: 30,000 PTS per input, Scope Mode: 10,000 pts per input, Display: full color LCD with fast update rate, operating temperature 0°C to 60°C or equivalent and latest specs.	2	Nos.

### 3.6 Group-F: Instrument Testing Tools

S. No	Description	Qty.	Unit
1.	Portable, Explosion-Proof IR Test Lamp P/N TL-2055, Temperature Range: -30° to +85° C, with one spare rechargeable battery P/N PSU-15 100 – 240 VAC, Make: Honeywell or Equivalent.	1	No.
2.	Hand Torch, Explosion Proof, IP 64, Power LED, rechargeable battery with its charger, charging voltage 220VAC, 50Hz or equivalent.	2	Nos.
3.	Glass Thermometer Sets, ASTM Certified with calibration certificate, Make: Thermco or equivalent, Range: 0-650F, Model/Catalog Number ACC6270F4FC.	2	Nos.
4.	Pneumatic Pressure Calibrator, Series 65-120, Range -100 to 850" WC, dual scale Psi & Inch WC, with fitting accessory (flexible tube & tube fitting), Make: Wallace Tiernan or equivalent (with Carrying Case and Accessories)	1	No.
5.	Master digital pressure testing gauge, Range upto 300 Psi (NPT: 1/4" Male), 0.05% full scale accuracy, Model DPI-104, battery operated with one spare battery, Make: Druck or equivalent.	1	No.



S. No	Description	Qty.	Unit
6.	Master digital pressure testing gauge, Range upto 1000 Psi (NPT: 1/4" Male), 0.05% full scale accuracy, Model DPI-104, battery operated with one spare battery, Make: Druck or equivalent.	1	No.
7.	Master digital pressure testing gauge, Range upto 3000 Psi (NPT: 1/4" Male), 0.05% full scale accuracy, Model DPI-104, battery operated with one spare battery, Make: Druck or equivalent.	1	No.
8.	Field Communicator 475, Intrinsically Safe, latest model 475 F P 1 E KL U GMT S, Make: Emerson	1	No.
9.	Multifunction Calibrator, Make: Druck, Model DPI 880(Range upto 100 KHz) or equivalent, Cold Junction (CJ) compensation: Automatic/Manual, Measure mA, Volts/mV, Hz/pulse count, Supply mA, Volts/mV, Hz/pulse count, Measure/simulate RTD, TC & resistance.	1	No.

### 3.7 Group-G: Electrical / Instrument Tools

S. No	Description	Qty.	Unit
1.	Bench Vice, Size 4", Make: Craftsman or equivalent.	2	Nos.
2.	Bench Vice, Size 6", Make: Craftsman or equivalent.	2	Nos.
3.	Pipe Vise, Size 4", Origin: European or equivalent.	2	Nos.
4.	Heavy duty separate hydraulic cable lug punching tool kit. Lug Size: 16 Sq. mm to 630 Sq. mm	2	Nos.
5.	Gasket Cutting Machine	1	No.
6.	Drill Machine, Voltage 220VAC, Frequency 50 Hz, variable speed, rotation in both clockwise & anticlockwise direction, power rating 1000W, with hammering & drilling capability, Make: AEG or equivalent.	3	Nos.

3.8 **Group-H: Telemetry Testing Tools**

S. No	Description	Qty.	Unit
1.	Portable, Explosion-Proof IR Test Lamp P/N TL-2055, Temperature Range: -30° to +85° C, with one spare rechargeable battery P/N PSU-15 100 – 240 VAC, Make: Honeywell or Equivalent.	1	No.
2.	Digital Test Gauge (Master Gauge), Range 5000 Psi all accessories quick fittings (MNPT 1/4" or equivalent) Make: Crystal Engg.	1	No.
3.	Pneumatic High Pressure Test Pump, Make: Ametek, Model: Ametek Jofra 65-P014, Pressure Range: 0 to 10,000 psi / 700 bar Test media: Oil Wetted parts: Aluminum, Brass, Stainless Steel Connections to test objects: 4 x 1/4" NPT Female	1	No.
4.	Hand Torch, explosion proof, IP 64, Power LED, rechargeable battery with its charger, charging voltage 220VAC, 50Hz. or equivalent	2	No.
5.	Electronic Tool Kit with Tools (Deluxe Electronics Tool Kit - TK-3000)	1	No.
6.	Glass Thermometer Sets, ASTM Certified with calibration certificate, Make: Thermco or equivalent, Range: 0-650F, Model/Catalog Number ACC6270F4FC.	2	Set
7.	Pneumatic Pressure Calibrator, Series 65-120, Range: -100 to 850" WC, dual scale Psi & Inch WC, with fitting accessory (flexible tube & tube fitting), Make: Wallace Tiernan or equivalent (with Carrying Case and Accessories).	2	Nos.
8.	Thermocouple Calibrator for K & J type, Make: Fluke or equivalent	1	No.
9.	Master Digital Gauge, Range 500 Psi with all accessories quick fittings (1/4" MNPT) Crystal Engg. or equivalent.	1	No.
10.	Master Digital Gauge, Range 1500 Psi with all accessories quick fittings (1/4" MNPT) Crystal Engg. or equivalent.	1	No.
11.	Field Communicator 475, Intrinsically Safe, latest model 475 F P 1 E KL U GMT S, Make: Emerson.	1	No.
12.	Digital Thermometer Meter (with Probes) for K and J type thermocouple, Make: Fluke or equivalent.	2	Nos.

S. No	Description	Qty.	Unit
13.	MA Source, Make/Model: Fluke/725 or equivalent with DP module FLUKE-700P00 to measure DP 0 to 1 in H2O& Pressure module FLUKE-700P27 to measure, Measure/source pressure, Source/simulate volts, mA, thermocouples, RTDs, frequency, and OHMS to calibrate transmitters.	1	Set
14.	Fluke 700 PTPK Hydraulic Test Pressure kit.	1	No.
15.	USB to RS-232 Converter, Make: Moxa or equivalent	1	No.
16.	RS-232 to 485 Converter, Make: Moxa or Equivalent	1	No.
17.	Fluke Pressure Modules: 0-100 Psi, 0-500 Psi, 0-1500 Psi.	1 each	No.
18.	Frequency / Loop Calibrator (DPI 841/842), Make: Druck or equivalent, CPM, CPH and totalizing counter, mA measure, switch test and 24V loop power, Sine, square and triangular waveforms.	1	No.

### 3.9 Group-I: Lifting Equipment for Mechanical Workshop

S. No	Description	Qty.	Unit
1.	Mobile Overhead Crane with hoist arrangement & site installation (Lifting Capacity: 15 Tons)	1	No.

### 3.10 Group-J: Air Compressor

S. No	Description	Qty.	Unit
1.	Engine Driven Air Compressor	1	No.

### 3.11 Group-K: Pumps

S. No	Description	Qty.	Unit
1.	Portable Pump	1	No.
2.	Pneumatic High pressure Test Pump, Range -14 to 3000 Psi, NPT 1/4", Adjustment Resolution up to 0.1 m bar. Make: Additel, Model: 920, or equivalent	1	No.

### 3.12 **Group-L: Combination Pressure Test Bench**

S. No	Description	Qty.	Unit
1.	Combination Pressure Test Bench for Testing of PSVs & Control Valves from 1" to 20" (Pressure Range: 0-3000 Psi, with Fitting Arrangement to Suite RTJ & RF Flange Connections), with Air (Booster) and Storage System Make: Ventil/Unigrind or equivalent	1	No.

## 4.0 **PROCUREMENT**

### 4.1 **Enquiries**

The Vendor / Supplier shall issue enquiries and place orders on sub-suppliers and for any deviation must obtain the approval of the Company prior to the enquiry being issued. Any liaison with the sub-vendors including clarification of technical queries, expediting shall be carried out by Vendor / Supplier's personnel.

Prior to floating an enquiry the Vendor / Supplier shall obtain approval from the Owner for the purchase specifications and equipment data sheets attached to the enquiry.

### 4.2 **Orders**

The Vendor / Supplier shall, prior to placing order(s) for equipment and materials provide the Company with documentation for their review and approval of the vendor / supplier, technical bid comparison, vendor / supplier data requirements, quality plan, spares recommendations, delivery date, shipping details and warranty.

Vendor / Supplier shall note that requirements for shop fabrication and inspection shall follow the guidelines provided in the relevant industry standard such as API 650, ASME Sec. VIII Div. 1 and ASME B31.3.

For locally procured materials only reputable manufacturer's product may be used. Company reserves the right to ask for a sample or a lab test for review of quality of the material.

The Vendor / Supplier shall provide similar data as appropriate to items such as instruments, electrical equipment, structures and bulk piping and other materials.

The Vendor / Supplier shall ensure that all questions, reservations etc. are satisfactorily resolved with suppliers prior to issue of the Purchase Order, either by correspondence for minor issues, or by pre-award discussions. The Company shall be invited to attend the technical part of such discussions.

#### 4.3 **Expediting**

The Vendor / Supplier shall expedite all purchase orders. The emphasis shall be on visits to suppliers and their sub-supplier's works to physically view progress of work and witness tests and also to transport companies and other organizations where the potential for delay can occur. Expediting Reports shall be provided to the Owner. The level of Vendor / Supplier expediting shall be such as to ensure that all orders are delivered to suit the requirements of the project schedule.

The Vendor / Supplier shall undertake inspection such as is required to ensure that equipment and materials meet the requirements of the technical specifications.

### 5.0 **INSPECTION AND TESTING**

- 5.1 All reasonable requests shall be granted the COMPANY to enable the COMPANY to verify compliance with this specification.
- 5.2 The monitoring and witnessing of inspections and tests by the COMPANY shall be in accordance with the quality plan included in this specification. The COMPANY reserves the right to increase or decrease the level of inspection based on performance during production.

### 6.0 **SHIPPING AND HANDLING**

- 6.1 Vendor / Supplier shall notify Company one week in advance of the completion for each vessel.
- 6.2 All vessels to included equipment, materials and documentation supplied shall be prepared and packaged in a manner so as to provide both mechanical and weather protection while in transit. All equipment shall utilize temporary bracing for shipment in addition to permanent mounting.
- 6.3 The vendor / supplier / manufacturer shall accept liability for loss or damage of the vessel and equipment during loading, transit and unloading. The Company will assume this liability upon receipt of the same at the point of delivery.

## 7.0 **MISCELLANEOUS**

### 7.1 **Spare Parts**

Vendor / Supplier is to provide detailed priced listings of his and his sub-suppliers' recommended spares prior to placing the respective purchase orders. The Company will then decide whether to include supply of the spares, at the price listed, within the Contractor's scope of a respective purchase order or whether the Company is to purchase directly.

The Equipment supplied by Vendor /Supplier shall have spare parts which are readily / easily available in the local market. The said spares shall have the availability in the local market for a minimum period of five (05) years.

## 8.0 **WARRANTEE / GUARANTEE**

- 8.1 The VENDOR / SUPPLIER will warrant that all goods/ equipment supplied under this tender/contract shall be new and have no defects arising from design, that may develop under normal use of equipment under the design condition stated in the tender inquiry/contract. The duration of warranty shall be 12 months from the date of commissioning or 18 months from the date of shipment.
- 8.2 The COMPANY shall promptly notify the VENDOR / SUPPLIER in writing of any claims arising under this warranty. Upon receipt of such notice, the contractor shall, with all reasonable speed, repair or replace the defective goods of parts thereof without any cost to the COMPANY.
- 8.3 Free of company replacement /repair of any defective equipment involving transport charges, if duly reported. Failure to which will liable the vender to refund the full purchase price. The VENDOR / SUPPLIER is required to confirm in their bids to provide the above warranty for supplied items.

**ANNEXURE – I**

**SPECIFICATIONS**

**LIST OF SPECIFICATIONS**

<b><u>S. No.</u></b>	<b><u>Document Nos.</u></b>	<b><u>Descriptions</u></b>
1.	165-4-SPM-090	Specification for Center Lathe Machine
2.	165-4-SPM-091	Specification for Power Hack Sawing Machine
3.	165-4-SPM-092	Specification for Universal Drilling / Boring Machine
4.	165-4-SPG-011	Site, Environment & Utility Data





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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE – II

### SPECIFICATION FOR CENTER LATHE MACHINE



0	17-02-2017	Issued for Tender	AK	MMA	MAS
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## 1.0 **INTRODUCTION**

Oil & Gas Development Company LTD. (OGDCL) is operating oil/gas fields in various parts of Islamic Republic of Pakistan. At one of the fields OGDCL aims to construct a gas processing facility to process raw gas. The processed sales gas from the facility will be supplied to gas transmission/distribution Company operating in the area. The LPG will also be extracted from the gas stream. The facilities to be constructed will include:

- Wellhead Facilities
- Gas Gathering System
- Gas Processing Plant
- LPG and Condensate Recovery
- Produced Water Handling System
- LPG & Condensate Storage & handling System

The gas processing facility shall treat 250 MMSCFD raw gas with a margin of 10%. The 250 MMSCFD raw gas shall yield 225.2 MMSCFD sales gas 5058 bbls/day condensate and 413 MT/day LPG.

The design capacity of the plant is 250 MMSCFD for which two trains of 125 MMSCFD will be required.

OGDCL has engaged Zishan Engineers (Pvt.) Ltd. (ZEL) as Consultant for the project.

## 2.0 **DEFINITIONS**

- Owner / Company : Oil & Gas Development Company (OGDCL)
- Consultant : Party which carries out all or part of the design, engineering of the Project. Zishan Engineers (Pvt.) Ltd. (ZEL) is the Engineer.
- Contractor : Mean the Construction Company to be engaged by the Company to perform the Construction Work.
- Packager : Party/ies, which Vendor's 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 CONSULTANT / COMPANY of 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 CONSULTANT / COMPANY.

## 2.2 **Deviations**

All deviations to this specification, other specifications or attachments shall be brought to the knowledge of the CONSULTANT / COMPANY in the bid. All deviations made during the procurement, design, manufacturing, testing and inspection shall be with written approval of the CONSULTANT prior to execution of the work. Such deviations shall be shown in the documentation prepared by the CONTRACTOR/SUPPLIER.

## 2.3 **Conflicting Requirements**

In the event of conflict, inconsistency or ambiguity between the contract scope of work, this Specification, National Codes & Standards referenced in this Specification or any other documents, the CONTRACTOR/ SUPPLIER shall refer to the CONSULTANT whose decision shall prevail.

## 3.0 **SCOPE**

3.1 This specification covers the minimum requirements for the design, construction, inspection/testing of Center Lathe Machine.

3.2 This specification together with the relevant codes cited, covers the requirements for Center Lathe Machine.

3.3 Compliance by the vendor with the provisions of this specification does not relieve him of his responsibility to furnish equipment & auxiliaries mechanically suited to meet the specified service conditions.

#### 4.0 **REFERENCE STANDARD**

Accuracies of machine and its respective machine tools supplied by CONTRACTOR/SUPPLIER shall be in accordance with the following Standard:

- Schlesinger Rules (for Testing Accuracies of Machine Tools)

#### 4.1 **Conflicts and Exceptions**

4.1.1 All conflicts between the requirements of this specification and above referenced specifications shall be referred to the Purchaser for clarification before submitting the quotation.

4.1.2 The Vendor shall submit a complete list of exceptions to this specification or any part thereof with the quotation.

#### 5.0 **ENVIRONMENTAL CONDITIONS**

Environmental conditions for the equipment covered by this specification shall be according the Specification for Site, Environment & Utility Data (165-4-SPG-011).

#### 6.0 **GENERAL REQUIREMENTS**

The equipment supplied shall have the following requirements as a minimum:

- The supplied machine should be complete in all respects in ready-to-operate condition.
- Machine shall have a rigid & robust design with hardened & precision ground bedways for accuracy.
- Machine shall have hardened & ground gears of high quality steel.
- Precision tapered roller bearings.
- Easy approachable controls.
- Pull-out chip tray for easy cleaning
- Machine shall be tested according to International Standards, such as Schlesinger Rules.

- 3-Jaw self centering chuck having precision, reversible & soft adaptable jaws.
- 4-Jaws independent chuck having precision, reversible & soft adaptable jaws.
- Face Plate with slots.
- Square Tool Post.
- Steady Rest.
- Follow Rest.
- Longitudinal Stop.
- Dead Centers.
- Taper Sleeve.
- Cooling Pump.
- Service Tools & Grease Gun.
- Sliding Chip Tray.
- 2-Speed Electric Motor suitable for 400V  $\pm$ 5%, 50c/s, 3-Phase.
- Two (02) Sets of Machine Manuals (Operation & Maintenance), spare parts catalogue, machine test charts, and calibration certificates in English Language shall be required with the supply.
- Complete set of anchoring materials including foundation bolts, nuts, washers, fixators, leveling shoes, etc., for alignment and fixing of the machine on the floor shall be supplied by the vendor.
- Noise level of the machine during operation should be less than 85 dB (A) at one meter away from the machine.

7.0 **MACHINE SPECIFICATIONS**

S. No.	SPECIFICATIONS	UNITS
1.	Distance between Centers	1500 mm
2.	Height of Centers	185 mm
3.	Length of Bed	2345 mm
4.	Length of Machine	2505 mm
5.	Width of Bed	254 mm
6.	Swing over Bed	365 mm
7.	Swing over Cross Slide	200 mm
8.	Swing in gap	540 mm
9.	Length of gap	240 mm
10.	Length in front of Face Plate	175 mm
11.	Saddle Travel	1470 mm
12.	Cross Travel	235 mm
13.	Tool Side Travel	120 mm
14.	Tool Post Swivel (each side)	90 deg.
15.	Spindle Taper	5 Morse
16.	Spindle Nose (American Std. Size)	AI-5
17.	Hole Through Spindle	35 mm
18.	Spindle Speeds	16
19.	Spindle Speed Range	38 – 1600 RPM
20.	Longitudinal Feeds	54
21.	Cross Feeds	54
22.	Longitudinal Feed Range	0.066 – 3.962 mm/min
23.	Cross Feed Range	0.033 – 1.981 mm/min
24.	49 Metric Threads	0.225 – 10 mm
25.	54 Withworth Threads	96 – 1 5/8 TPI
26.	42 Module Threads	0.225 – 5 mod.
27.	54 D. P Threads	192 – 3 1/4 D.P.
28.	Tailstock Barrel Diameter	48 mm
29.	Tailstock Barrel Travel	110 mm
30.	Tailstock Barrel Taper	4 Morse
31.	Tailstock disaxing each side	10 mm
32.	Two-Speed Motor (HP / KW)	(3.6 HP / 4.28 HP) / (2.7 KW / 3.14)
33.	Equipment Weight	Vendor to Specify
34.	Shipping Volume	Vendor to Specify
35.	Shipping Dimensions	Vendor to Specify

## 8.0 **INSPECTION AND TESTING**

Inspection and testing shall be carried out at the SUPPLIER's works and shall be witnessed by the COMPANY representatives and/or certifying authority.

The responsibility for inspection rests with the SUPPLIER. However, the COMPANY and their authorized representative reserve the right to inspect the equipment at any time during manufacture to ensure that materials and workmanship are in accordance with this specification, other project specifications, the equipment data sheets and/or drawings.

The SUPPLIER shall provide a projected shop schedule with appropriate fabrication stages at the time drawings are submitted for approval, to highlight the inspection activity schedule.

The approval of any work by the COMPANY, or their authorized representative, shall in no way relieve the SUPPLIER of any responsibility for carrying out the provisions of this specification.

## 9.0 **PREPARATION FOR SHIPMENT**

Vendor shall ensure that all items of equipment shall be delivered in proper rail/ road worthy packing, (as applicable) and where special protection is required, Vendor shall so arrange accordingly. Packing shall be arranged by Vendor and cost to be included in the price of this purchase order. The Vendor shall be liable for any damage to the equipment caused by:

- a) Bad or ineffective packing or deterioration / corrosion as a result of incorrect or inadequate protection during transportation and storage not exceeding thirty months in total.
- b) Corrosion as a result of the Vendor's failure to indicate storage recommendations.
- c) Loading or unloading resulting from Vendor's failure to provide any or adequate instructions.

During packing Vendor shall ensure that:

- 1) A packing list is enclosed with all closed packages.
- 2) The packages are marked according to specifications.
- 3) Certificates of origin, where required are available.





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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE – II

### SPECIFICATION FOR POWER HACK SAWING MACHINE



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9.0	PREPARATION FOR SHIPMENT	7

## 1.0 **INTRODUCTION**

Oil & Gas Development Company Ltd. (OGDCL) is operating oil/gas fields in various parts of Islamic Republic of Pakistan. At one of the fields OGDCL aims to construct a gas processing facility to process raw gas. The processed sales gas from the facility will be supplied to gas transmission/distribution Company operating in the area. The LPG will also be extracted from the gas stream. The facilities to be constructed will include:

- Wellhead Facilities
- Gas Gathering System
- Gas Processing Plant
- LPG and Condensate Recovery
- Produced Water Handling System
- LPG & Condensate Storage & handling System

The gas processing facility shall treat 250 MMSCFD raw gas with a margin of 10%. The 250 MMSCFD raw gas shall yield 225.2 MMSCFD sales gas 5058 bbls/day condensate and 413 MT/day LPG.

The design capacity of the plant is 250 MMSCFD for which two trains of 125 MMSCFD will be required.

OGDCL has engaged Zishan Engineers (Pvt.) Ltd. (ZEL) as Consultant for the project.

## 2.0 **DEFINITIONS**

- Owner / Company : Oil & Gas Development Company (OGDCL)
- Consultant : Party which carries out all or part of the design, engineering of the Project. Zishan Engineers (Pvt.) Ltd. (ZEL) is the Engineer.
- Contractor : Mean the Construction Company to be engaged by the Company to perform the Construction Work.
- Packager : Party/ies, which Vendor's 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 CONSULTANT / COMPANY of 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.

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## 2.2 **Deviations**

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## 2.3 **Conflicting Requirements**

In the event of conflict, inconsistency or ambiguity between the contract scope of work, this Specification, National Codes & Standards referenced in this Specification or any other documents, the CONTRACTOR/ SUPPLIER shall refer to the CONSULTANT whose decision shall prevail.

## 3.0 **SCOPE**

3.1 This specification covers the minimum requirements for the design, construction, inspection/testing of Power Hack Sawing Machine.

3.2 This specification together with the relevant codes cited, covers the requirements for Power Hack Sawing Machine.

3.3 Compliance by the vendor with the provisions of this specification does not relieve him of his responsibility to furnish equipment & auxiliaries mechanically suited to meet the specified service conditions.

#### 4.0 **REFERENCE STANDARD**

Accuracies of machine and its respective machine tools supplied by CONTRACTOR/SUPPLIER shall be in accordance with the following Standard:

- Schlesinger Rules (for Testing Accuracies of Machine Tools)

#### 4.1 **Conflicts and Exceptions**

4.1.1 All conflicts between the requirements of this specification and above referenced specifications shall be referred to the Purchaser for clarification before submitting the quotation.

4.1.2 The Vendor shall submit a complete list of exceptions to this specification or any part thereof with the quotation.

#### 5.0 **ENVIRONMENTAL CONDITIONS**

Environmental conditions for the equipment covered by this specification shall be according the Specification for Site, Environment & Utility Data (165-4-SPG-011).

#### 6.0 **GENERAL REQUIREMENTS**

The equipment shall have the following requirements as minimum:

- The supplied machine should be complete in all respects in ready-to-operate condition.
- Capability of sawing off round bars, square bars, tubes & profiles.
- Rigid saw frame.
- Hydraulic mechanism.
- Swiveling vice clamps to accommodate jobs up to 45 degrees.
- Strong T-Slotted vice base.
- Cooling System with sheet metal coolant sump.
- Protection covers shall be provided for V-Belts.

- Equipment / Machine shall be tested according to relevant ISO Standards.
- Clamping Vice with handle
- V-Belt Covers
- Saw Blade
- Electric Equipment (400 V + - 5%, 50 c/s)
- Set of servicing tools
- Grease Gun
- Two (02) Sets of Machine Manuals (Operation & Maintenance), spare parts catalogue, machine test charts, and calibration certificates in English Language shall be required with the supply.
- Complete set of anchoring materials including foundation bolts, nuts, washers, fixators, leveling shoes, etc., for alignment and fixing of the machine on the floor shall be supplied by the vendor.
- Noise level of the machine during operation should be less than 85 dB (A) at one meter away from the machine.

## 7.0 MACHINE SPECIFICATIONS

S. No.	SPECIFICATIONS	UNITS
1.	Cutting Capacity:	
	Round Bar	Ø 180 mm
	Square Bar	160 x 160 mm
	Flat Bar	180 mm
2.	Cutting Speed	100 strokes / min
3.	Dimensions of Saw Blade	450 x 32 x 1.6 x 10 mm
4.	Vice Swivel Angle	45 Degree
5.	Motor Power	2 HP / 1.5 KW
6.	Coolant Pump	0.15 HP / 0.11 KW
7.	Weight of Machine	Vendor to Specify (in Kg)
8.	Shipping Volume (LxWxH)	Vendor to Specify (in mm)

## 8.0 **INSPECTION AND TESTING**

Inspection and testing shall be carried out at the SUPPLIER's works and shall be witnessed by the COMPANY representatives and/or certifying authority.

The responsibility for inspection rests with the SUPPLIER. However, the COMPANY and their authorized representative reserve the right to inspect the equipment at any time during manufacture to ensure that materials and workmanship are in accordance with this specification, other project specifications, the equipment data sheets and/or drawings.

The SUPPLIER shall provide a projected shop schedule with appropriate fabrication stages at the time drawings are submitted for approval, to highlight the inspection activity schedule.

The approval of any work by the COMPANY, or their authorized representative, shall in no way relieve the SUPPLIER of any responsibility for carrying out the provisions of this specification.

## 9.0 **PREPARATION FOR SHIPMENT**

Vendor shall ensure that all items of equipment shall be delivered in proper rail/ road worthy packing, (as applicable) and where special protection is required, Vendor shall so arrange accordingly. Packing shall be arranged by Vendor and cost to be included in the price of this purchase order. The Vendor shall be liable for any damage to the equipment caused by:

- a) Bad or ineffective packing or deterioration / corrosion as a result of incorrect or inadequate protection during transportation and storage not exceeding thirty months in total.
- b) Corrosion as a result of the Vendor's failure to indicate storage recommendations.
- c) Loading or unloading resulting from Vendor's failure to provide any or adequate instructions.

During packing Vendor shall ensure that:

- 1) A packing list is enclosed with all closed packages.
- 2) The packages are marked according to specifications.
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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE – II

### SPECIFICATION FOR UNIVERSAL DRILLING / BORING MACHINE



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## 1.0 **INTRODUCTION**

Oil & Gas Development Company LTD. (OGDCL) is operating oil/gas fields in various parts of Islamic Republic of Pakistan. At one of the fields OGDCL aims to construct a gas processing facility to process raw gas. The processed sales gas from the facility will be supplied to gas transmission/distribution Company operating in the area. The LPG will also be extracted from the gas stream. The facilities to be constructed will include:

- Wellhead Facilities
- Gas Gathering System
- Gas Processing Plant
- LPG and Condensate Recovery
- Produced Water Handling System
- LPG & Condensate Storage & handling System

The gas processing facility shall treat 250 MMSCFD raw gas with a margin of 10%. The 250 MMSCFD raw gas shall yield 225.2 MMSCFD sales gas 5058 bbls/day condensate and 413 MT/day LPG.

The design capacity of the plant is 250 MMSCFD for which two trains of 125 MMSCFD will be required.

OGDCL has engaged Zishan Engineers (Pvt.) Ltd. (ZEL) as Consultant for the project.

## 2.0 **DEFINITIONS**

- Owner / Company : Oil & Gas Development Company (OGDCL)
- Consultant : Party which carries out all or part of the design, engineering of the Project. Zishan Engineers (Pvt.) Ltd. (ZEL) is the Engineer.
- Contractor : Mean the Construction Company to be engaged by the Company to perform the Construction Work.
- Packager : Party/ies, which Vendor's 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**

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## 2.2 **Deviations**

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## 2.3 **Conflicting Requirements**

In the event of conflict, inconsistency or ambiguity between the contract scope of work, this Specification, National Codes & Standards referenced in this Specification or any other documents, the CONTRACTOR/ SUPPLIER shall refer to the CONSULTANT whose decision shall prevail.

## 3.0 **SCOPE**

3.1 This specification covers the minimum requirements for the design, construction, inspection/testing of Universal Drilling / Boring Machine.

3.2 This specification together with the relevant codes cited, covers the requirements for Universal Drilling / Boring Machine.

3.3 Compliance by the vendor with the provisions of this specification does not relieve him of his responsibility to furnish equipment & auxiliaries mechanically suited to meet the specified service conditions.

#### 4.0 **REFERENCE STANDARD**

Accuracies of machine and its respective machine tools supplied by CONTRACTOR/SUPPLIER shall be in accordance with the following Standard:

- Schlesinger Rules (for Testing Accuracies of Machine Tools)

#### 4.1 **Conflicts and Exceptions**

4.1.1 All conflicts between the requirements of this specification and above referenced specifications shall be referred to the Purchaser for clarification before submitting the quotation.

4.1.2 The Vendor shall submit a complete list of exceptions to this specification or any part thereof with the quotation.

#### 5.0 **ENVIRONMENTAL CONDITIONS**

Environmental conditions for the equipment covered by this specification shall be according the Specification for Site, Environment & Utility Data (165-4-SPG-011).

#### 6.0 **GENERAL REQUIREMENTS**

The equipment shall have the following requirements as minimum:

- The supplied machine should be complete in all respects in ready-to-operate condition.
- Electric Motor with 1500 / 3000 RPM.
- Electrical equipment including motor shall be based on 400 V+- 5%, 50 c/s, 3 Phase.
- Service Tools
- Grease Gun
- Foundation Bolts
- Coolant System
- Co-ordinate Table
- Two (02) Sets of Machine Manuals (Operation & Maintenance), spare parts catalogue, machine test charts, and calibration certificates in English Language shall be required with the supply.

- Complete set of anchoring materials including foundation bolts, nuts, washers, fixators, leveling shoes, etc., for alignment and fixing of the machine on the floor shall be supplied by the vendor.
- Noise level of the machine during operation should be less than 85 dB (A) at one meter away from the machine.

## 7.0 MACHINE SPECIFICATIONS

S. No.	SPECIFICATIONS	UNITS
1.	<b>Drilling &amp; Boring Capacity:</b>	
	Drilling Capacity (max) in CI	Ø32 mm
	Boring Capacity	Ø65 mm
2.	<b>Base Plate:</b>	
	Working Surface	700 x 880 mm
	Number of Slots	5
	Width of Slots	18 mm
	Spacing of Slots	180 mm
3.	<b>Spindle:</b>	
	Spindle Nose Taper	MT3
	Spindle Quill	150 mm
	Horizontal Travel of Spindle Head	390 mm
	Vertical Travel of Spindle Head	590 mm
	Swivel of Spindle Head	+ - 180 deg.
	Accuracy of reading - off	0.02 mm
4.	<b>Speed:</b>	
	Number of Speeds	8
	Speed Steps	25-50-80-160-400-800-1280-2660 (RPM)
5.	<b>Feed:</b>	
	Number of Feeds	3
	Feed Steps	0.06-0.12-0.25 mm/rev.
6.	<b>Traverses:</b>	
	Longitudinal	320 mm
	Cross	300 mm
7.	<b>Weights:</b>	
	Equipment Weight	Vendor to Specify
	Shipping Volume	Vendor to Specify
	Shipping Dimensions	Vendor to Specify

## 8.0 **INSPECTION AND TESTING**

Inspection and testing shall be carried out at the SUPPLIER's works and shall be witnessed by the COMPANY representatives and/or certifying authority.

The responsibility for inspection rests with the SUPPLIER. However, the COMPANY and their authorized representative reserve the right to inspect the equipment at any time during manufacture to ensure that materials and workmanship are in accordance with this specification, other project specifications, the equipment data sheets and/or drawings.

The SUPPLIER shall provide a projected shop schedule with appropriate fabrication stages at the time drawings are submitted for approval, to highlight the inspection activity schedule.

The approval of any work by the COMPANY, or their authorized representative, shall in no way relieve the SUPPLIER of any responsibility for carrying out the provisions of this specification.

## 9.0 **PREPARATION FOR SHIPMENT**

Vendor shall ensure that all items of equipment shall be delivered in proper air/rail/ road worthy packing, (as applicable) and where special protection is required, Vendor shall so arrange accordingly. Packing shall be arranged by Vendor and cost to be included in the price of this purchase order. The Vendor shall be liable for any damage to the equipment caused by:

- a) Bad or ineffective packing or deterioration / corrosion as a result of incorrect or inadequate protection during transportation and storage not exceeding thirty months in total.
- b) Corrosion as a result of the Vendor's failure to indicate storage recommendations.
- c) Loading or unloading resulting from Vendor's failure to provide any or adequate instructions.

During packing Vendor shall ensure that:

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## OIL & GAS DEVELOPMENT COMPANY LTD.

### SITE, ENVIRONMENT & UTILITY DATA



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2.0	ENVIRONMENTAL CONDITIONS	3
3.0	UTILITY INFORMATION	4
4.0	NATIONAL ENVIRONMENTAL QUALITY STANDARDS (NEQS)	5
ANNEXURE – I:	NATIONAL ENVIRONMENTAL QUALITY STANDARDS	



## 1.0 **INTRODUCTION**

Oil & Gas Development Company (OGDCL) is operating oil/gas fields in various parts of Islamic Republic of Pakistan. At one of the field OGDCL aims to construct a gas processing facility to process raw gas. The process sales gas from the facility will be supplied to gas transmission/distribution company operating in the area. The LPG will also be extracted from the gas stream. The facilities to be constructed will include:

- Wellhead Facilities
- Gas Gathering System
- Gas Processing Plant
- LPG and Condensate Recovery
- Produced Water Handling System
- LPG & Condensate Storage & handling System

The gas processing facility shall treat 250 MMSCFD raw gas with a margin of 10%. The 250 MMSCFD raw gas shall yield 225.2 MMSCFD sales gas 5058 bbls/day condensate and 413 MT/day LPG.

The design capacity of the plant is 250 MMSCFD for which two trains of 125 MMSCFD will be required.

OGDCL has engaged Zishan Engineers (Pvt.) Ltd. (ZEL) as Consultant for the project.

## 2.0 **ENVIRONMENTAL CONDITIONS**

### 2.1 **Ambient Temperature Data**

Ambient Temperature, Minimum Average	:	64 °F (18° C)
Ambient Temperature, Maximum Average	:	93 °F (34° C)
Ambient Temperature, Maximum	:	118 °F (48° C)
Ambient Temperature, Minimum	:	36 °F (2.2° C)
Wet Bulb Temperature	:	88 °F (31 °C)

### 2.2 **Rainfall Data**

Maximum Daily Rainfall (24 hours)	:	10 in (251 mm)
Highest Average Monthly Rainfall	:	11.26 in (286 mm)

**2.3 Wind Data**

Maximum Velocity : 100 mph

Design Velocity : 100 mph

Exposure factor C – flat open terrain, importance factor 1.15 – essential facility.

**2.4 Humidity**

Relative Humidity : 20% to 77%

**2.5 Ice/Frost Data**

Not applicable.

**2.6 Elevation**

69 ft. (21 m)

**2.7 Earthquake Design Data**

Zone 2A of Uniform Building Code UBC 1997.

**3.0 UTILITY INFORMATION****3.1 Hot Oil**

Hot Oil Supply Temperature : 315 °F & 615 °F

**3.2 Cooling Water**

CW Supply Temperature : 93 °F

**3.3 Fuel Gas**

Note: Vendor to advice

**3.4 Instrument Air**

Instrument Air Normal Operating Pressure : 87 - 116 psig

Dew point : - 4 °F (- 20 °C)

**3.5 Plant Air**

Plant Air Normal Operating Pressure : 116 psig

**3.6 Nitrogen**

Normal Header Operating Pressure : 88 psig

**3.7 Electrical Power**

Power Generation / Main Distribution : 6.6KV, 3 Phase, 50Hz  
Power for LV Motors : 400 V, 3 Phase, 50Hz  
Power for MV Motors : 6.6KV, 3 Phase, 50Hz  
Lighting : 230 VAC, 1 Phase, 50 Hz.  
PLC / Control Panel : 230 VAC, 1 Phase, 50 Hz.  
from UPS

**3.8 Water Analysis**

Note: Vendor to advice

**4.0 NATIONAL ENVIRONMENTAL QUALITY STANDARDS (NEQS)**

National environmental quality standards (NEQS) are attached as **Annexure-I.**

**ANNEXURE – I**

**NATIONAL ENVIRONMENTAL QUALITY STANDARDS**

**REGISTERED No. M-302  
L. 7646**



EXTRAORDINARY  
PUBLISHED BY AUTHORITY

ISLAMABAD, THURSDAY, AUGUST 10, 2000

PART-II

Statutory Notification (S.R.O)

GOVERNMENT OF PAKISTAN

MINISTRY OF ENVIRONMENT, LOCAL GOVERNMENT AND  
RURAL DEVELOPMENT

NOTIFICATION

Islamabad, the 8th August 2000

**S.R.O. 549 (I)/2000.**\_\_\_ In exercise of the powers conferred under clause (c) of sub-section (1) of section of 6 of the Pakistan environmental Protection Act. 1997 (XXXIV of 1997), the Pakistan Environmental Protection Agency, with the prior approval of the Pakistan Environmental Protection Council, is pleased to direct that the following further amendments shall be made in its Notification No. S.R.O. 742(I)/93, dated the 24th August, 1993, namely: \_\_\_

In the aforesaid Notification, in paragraph 2.\_\_\_\_\_

(1289)

[4138(2000)/Ex.GAZ]

Price : Rs. 5.00

**1290 THE GAZETTE OF PAKISTAN, EXTRA, AUGUST 10, 2000 [PART-II]**

(1) for Annex, I the following shall be substituted, namely:\_\_\_\_\_

**Annex-I**

**“NATIONAL ENVIRONMENTAL QUALITY STANDARDS FOR MUNICIPAL AND LIQUID INDUSTRIAL EFFLUENTS (mg/l, UNLESS OTHERWISE DEFINED)**

S. No.	Parameter	Revised Standards			
		Existing Standards	Into Inland Waters	Into Sewage Treatment <sup>(5)</sup>	Into Sea <sup>(1)</sup>
1	2	3	4	5	6
1.	Temperature or Temperature Increase *	40°C	3°C	3°C	3°C
2.	pH value (H+) .	6-10	6-9	6-9	6-9
3.	Biochemical Oxygen Demand (BOD) <sub>5</sub> at 20°C <sup>(1)</sup>	80	80	250	80**
4.	Chemical Oxygen Demand (COD) <sup>(1)</sup> ..	150	150	400	400
5.	Total Suspended Solids (TSS) .. .	150	200	400	200
6.	Total Dissolved Solids (TDS)	3500	3500	3500	3500
7.	Oil and Grease	10	10	10	10
8.	Phenolic compounds (as phenol)	0.1	0.1	0.3	0.3
9.	Chloride (as Cl- )	1000	1000	1000	SC***
10.	Fluoride (as F- )	20	10	10	10
11.	Cyanide (as CN-) total ..	2	1.0	1.0	1.0
12.	An-ionic detergents (as MBAS) <sup>(2)</sup>	20	20	20	20
13.	Sulphate (SO <sub>42-</sub> )	600	600	1000	SC***
14.	Sulphide (S <sup>2-</sup> )	1.0	1.0	1.0	1.0
15.	Ammonia (NH <sub>3</sub> )	40	40	40	40
16.	Pesticides <sup>(3)</sup>	0.15	0.15	0.15	0.15

**1290 THE GAZETTE OF PAKISTAN, EXTRA, AUGUST 10, 2000 [PART-II]**

S. No.	Parameter	Revised Standards			
		Existing Standards	Into Inland Waters	Into Sewage Treatment <sup>(5)</sup>	Into Sea <sup>(1)</sup>
1	2	3	4	5	6
17.	Cadmium <sup>(4)</sup> ...	0.1	0.1	0.1	0.1
18.	Chromium (trivalent and hexavalent <sup>(4)</sup> ..	1.0	1.0	1.0	1.0
19.	Cooper <sup>(4)</sup> ...	1.0	1.0	1.0	1.0
20.	Lead <sup>(4)</sup> ...	0.5	0.5	0.5	0.5
21.	Mercury <sup>(4)</sup> ...	0.01	0.01	0.01	0.01
22.	Selenium <sup>(4)</sup>	0.5	0.5	0.5	0.5
23.	Nickel <sup>(4)</sup> ..	1.0	1.0	1.0	1.0
24.	Silver <sup>(4)</sup>	1.0	1.0	1.0	1.0
25.	Total toxic metals ...	2.0	2.0	2.0	2.0
26.	Zinc ...	5.0	5.0	5.0	5.0
27.	Arsenic <sup>(4)</sup> ..	1.0	1.0	1.0	1.0
28.	Barium <sup>(4)</sup> ...	1.5	1.5	1.5	1.5
29.	Iron ...	2.0	8.0	8.0	8.0
30.	Manganese ...	1.5	1.5	1.5	1.5
31.	Boron <sup>(4)</sup> ...	6.0	6.0	6.0	6.0
32.	Chlorine ...	1.0	1.0	1.0	1.0

**Explanations:**

1. Assuming minimum dilution 1:10 on discharge, lower ratio would attract progressively stringent standards to be determined by the Federal Environmental Protection Agency. By 1:10 dilution means, for example that for each one cubic meter of treated effluent, the recipient water body should have 10 cubic meter of water for dilution of this effluent.
2. Methylene Blue Active Substances; assuming surfactant as biodegradable.
3. Pesticides include herbicides, fungicides, and insecticides.
4. Subject to total toxic metals discharge should not exceed level given at S. N. 25.

**1290 THE GAZETTE OF PAKISTAN, EXTRA, AUGUST 10, 2000 [PART-II]**

5. Applicable only when and where sewage treatment is operational and BOD<sub>5</sub>=80mg/l is achieved by the sewage treatment system.
  6. Provided discharge is not at shore and not within 10 miles of mangrove or other important estuaries.
- \* The effluent should not result in temperature increase of more than 30C at the edge of the zone where initial mixing and dilution take place in the receiving body. In case zone is not defined, use 100 meters from the point of discharge.
- \*\* The value for industry is 200 mg/l.

Discharge concentration at or below sea concentration (SC).

Note: \_\_\_\_\_

1. Dilution of liquid effluents to bring them to the NEQS limiting values is not permissible through fresh water mixing with the effluent before discharging into the environment.
  2. The concentration of pollutants in water being used will be subtracted from the effluent for calculating the NEQS limits” and for Annex-II the following shall be substituted, namely:\_\_\_\_\_
- (2) for Annex-II the following shall be substituted, namely:\_\_\_\_\_

**Annex-II**

**“NATIONAL ENVIRONMENTAL QUALITY STANDARDS FOR INDUSTRIAL GASEOUS EMISSION (mg/Nm<sup>3</sup>, UNLESS OTHERWISE DEFINED).”**

S. No.	Parameter	Source of Emission	Existing Standards	Revised Standards
1	2	3	4	5
1.	Smoke	Smoke opacity not to exceed	40% or 2 Ringlemann Scale	40% or 2 Ringlemann Scale or equivalent smoke number
2.	Particulate matter	(a) Boilers and Furnaces		
	(1)	(i) Oil fired	300	300
		(ii) Coal fired	500	500
		(iii) Cement Kilns	200	300
		(b) Grinding, crushing, Clinker coolers and Related processes, Metallurgical Processes, converter, blast furnaces and cupolas.	500	500



**1293 THE GAZETTE OF PAKISTAN, EXTRA, AUGUST 10, 2000 [PART-II]**

<b>S. No.</b>	<b>Parameter</b>	<b>Source of Emission</b>	<b>Existing Standards</b>	<b>Revised Standards</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
3.	Hydrogen Chloride	Any	400	400
4.	Chlorine	Any	150	150
5.	Hydrogen Fluoride	Any	150	150
6.	Hydrogen Sulphide	Any	10	10
7.	Sulphur Oxides <sup>(2) (3)</sup>	Sulfuric acid/Sulphonic acid plants Other Plants except power Plants operating on oil and coal	400	1700
8.	Carbon Monoxide	Any	800	800
9.	Lead	Any	50	50
10.	Mercury	Any	10	10
11.	Cadmium	Any	20	20
12.	Arsenic	Any	20	20
13.	Copper	Any	50	50
14.	Antimony	Any	20	20
15.	Zinc	Any	200	200
16.	Oxides of Nitrogen	Nitric acid manufacturing unit. Other plants except power plants operating on oil or coal:	400	3000
	(3)	Gas fired	400	400
		Oil fired	-	600
		Coal fired	-	1200

**Explanations**

1. Based on the assumption that the size of the particulate is 10 micron or more.
2. Based on 1 percent Sulphur content in fuel oil. Higher content of Sulphur will case standards to be pro-rated.
3. In respect of emissions of Sulphur dioxide and Nitrogen oxides, the power plants operating on oil and coal as fuel shall in addition to National Environmental Quality Standards (NEQS) specified above, comply with the following standards:-

1294 THE GAZETTE OF PAKISTAN, EXTRA, AUGUST 10, 2000 [PART-II]

A. Sulphur Dioxide

Sulphur Dioxide Background levels Micro-gram per cubic meter (ug/m<sup>3</sup>) Standards.

Background Air Quality (SO <sup>2</sup> Basis)	Annual Average	Max. 24-hours Interval	Criterion I Max. SO <sup>2</sup> Emission (Tons per Day Per Plant)	Criterion II Max. Allowable ground level increment to ambient (ug/m <sup>3</sup> ) (One year Average)
Unpolluted	<50	<200	500	50
Moderately Polluted*	50	200	500	50
Low	100	400	100	10
High	>100	>400	100	10
Very Polluted**	<50	<200	500	50

\* For intermediate values between 50 and 100 ug/m<sup>3</sup> linear interpolations should be used.

\*\* No projects with Sulphur dioxide emissions will be recommended.

B. Nitrogen Oxide

Ambient air concentrations of Nitrogen oxides, expressed as NO<sub>x</sub> should not be exceed the following:-

Annual Arithmetic Mean : 100ug/m<sup>3</sup>  
(0.05 ppm)

Emission level for stationary source discharge before missing with the atmosphere, should be maintained as follows:-

For fuel fired steam generators as Nanogram (100-gram) per joule of heat input:

Liquid fossil fuel : 130  
Solid fossil fuel : 300  
Lignite fossil fuel : 260

Note:- Dilution of gaseous emissions to bring them to the NEQS limiting value is not permissible through excess air mixing blowing before emitting into the environment.

[File No. 14(3)/98-TO-PEPC.]

**HAFIZ ABDULAH AWAN**  
**DEPUTY SECRETARY (ADMN)**

**ANNEXURE – II**

**DATA SHEETS**

**LIST OF DATASHEETS**

<b><u>S. No.</u></b>	<b><u>Document Nos.</u></b>	<b><u>Descriptions</u></b>
1.	165-4-DSM-204	Datasheet of Engine Driven Air Compressor
2.	165-4-DSM-205	Datasheet of Engine Driven Stick & TIG Welding Machine
3.	165-4-DSM-206	Datasheet of Gasket Cutting Machine
4.	165-4-DSM-207	Datasheet of Grinding / Cutting Machine
5.	165-4-DSM-208	Datasheet of Laser Alignment Tool for Rotating Equipment
6.	165-4-DSM-209	Datasheet of Magnetic Particle Inspection Hand Held Kit
7.	165-4-DSM-210	Datasheet of Oxy-Acetylene Welding Set
8.	165-4-DSM-211	Datasheet of Plasma Cutting Torch Set
9.	165-4-DSM-212	Datasheet of Portable Hardness Meter
10.	165-4-DSM-213	Datasheet of Portable Pump
11.	165-4-DSM-214	Datasheet of TIG Welding Machine
12.	165-4-DSM-215	Datasheet of Portable Ultrasonic Thickness Meter
13.	165-4-DSM-216	Datasheet of Vibrometer With Analyzer
14.	165-4-DSM-217	Datasheet of Bearing Heater
15.	165-4-DSM-218	Datasheet of Overhead Crane



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Revision 2

Date 13-02-2018

Total Pages (inc front cover) 2





## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### DATASHEET OF ENGINE DRIVEN AIR COMPRESSOR

ISSUED FOR  
TENDER

Rev.	Date	Description	Prepared By	Checked By	Approved By
2	13-02-2018	Re-ssued for Tender	MN	SMHA	MAS
1	16-11-2017	Re-ssued for Tender	MN	SMHA	MAS
0	17-02-2017	Issued for Tender	MN	SMHA	MAS

CONSULTANT		DATA SHEET			
 ZISHAN ENGINEERS (PVT.) LTD.	DATASHEET OF ENGINE DRIVEN AIR COMPRESSOR				
	<b>DOCUMENT NO.</b>		<b>REVISION</b>	<b>DATE</b>	
CLIENT		165-4-DSM-204	2	13-02-2018	
 OIL & GAS DEVELOPMENT COMPANY LTD.	<b>PREPARED BY</b>	<b>CHECKED BY</b>	<b>APPROVED BY</b>		<b>SHEET</b>
	MN	SMHA	MAS		2 OF 2
<b>Technical Data</b>					
1	QUANTITY	1 NOS.			
2	COMPRESSOR	HEAVY DUTY, SINGLE STAGE, THREE CYLINDER COMPRESSOR			
B	COMPRESSOR VOLUME DELIVERY @ 100 PSI	26.5 CFM (APPROX.)			
4	AIR TANK CAPACITY	41 GALLON (Min)			
5	OPERATING PRESSURE	115 / 142 PSI			
6	ENGINE MANUFACTURER	HONDA OR EQUIVALENT			
7	ENGINE POWER	Suitable for full flow of Compressor			
8	TYPE OF FUEL	DIESEL			
9	INTAKE FILTER	YES (WITH SILENCER & REPLACEABLE ELEMENT)			
10	AIR-COOLED AFTER COOLER	YES			
11	ATMOSPHERIC UNLOADING SYSTEM	YES			
12	ASME SAFEETY RELEIF VALVE	YES			
13	AUTOMATIC IDLE CONTROL	YES			
14	AUTOMATIC PILOT VALVE	YES			
15	PRESSURE GUAGE RANGE	0 - 200 PSI (WITH 5 PSI GRADUATION)			
16	DRIVE	BELT			
17	STEEL BELT GUARD	YES			
18	DISCHARGE HOSE	YES (5M)			
19	WHEELS	YES			
<b>NOTES:</b>					
1	VENDOR TO ENSURE THAT THE ENGINE SHALL BE SELECTED SUCH THAT THE SPARE PARTS ARE AVAILABLE IN THE COUNTRY.				



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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### DATASHEET OF ENGINE DRIVEN STICK & TIG WELDING MACHINE



Rev.	Date	Description	Prepared By	Checked By	Approved By
2	13-02-2018	Re-ssued for Tender	MN	SMHA	MAS
1	16-11-2017	Re-ssued for Tender	MN	SMHA	MAS
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CONSULTANT		DATA SHEET			
	ZISHAN ENGINEERS (PVT.) LTD.	DATASHEET OF ENGINE DRIVEN STICK & TIG WELDING MACHINE			
		DOCUMENT NO.		REVISION	DATE
CLIENT		165-4-DSM-205		2	13-02-2018
	OIL & GAS DEVELOPMENT COMPANY LTD.	PREPARED BY	CHECKED BY	APPROVED BY	SHEET
		MN	SMHA	MAS	2 OF 2
<b>TECHNICAL DATA</b>					
<b>WELDING MACHINE</b>					
1	QUANTITY	1 NOS.			
2	WELDING PROCESSES	STICK & TIG WELDING			
3	WELDING CURRENT TYPE	AC/DC			
4	RATED OUTPUT CURRENT	500 AMPS			
5	FREQUENCY	50 HZ			
6	WELD MODE SELECTOR SWITCH	YES			
7	DIGITAL AMPS & VOLTS OUTPUT METER	YES			
8	OUTPUT CONTROL DIAL	YES			
9	COVERED WELD OUTPUT TERMINALS	YES			
<b>ENGINE</b>					
1	MANUFACTURER	PERKINS OR EQUIVALENT			
2	FUEL TYPE	DIESEL			
3	POWER AT 1800 RPM	30 HP (APPROX.)			
4	NUMBER OF CYLINDERS	4			
5	COOLING	AIRCOOLED			
6	PROTECTION FROM A LOW OIL LEVEL	YES			
7	BORE/ STROKE	VTS			
8	WEIGHT	VTS			
9	FUEL TANK CAPACITY	VTS			
10	FUEL LEVEL GUAGE	YES			
11	ENGINE TEMPERATURE INDICATOR	YES			
12	OIL PRESSURE GUAGE	YES			
<b>ACCESSORIES</b>					
1	FOUR WHEELER TRAILER (WITH LIGHTS & CABLE RACK)	YES			
2	SPARK ARRESTOR KIT	YES			
3	HEAD SHIELD	YES (4 Nos)			
4	WELDING GLOVES	YES (12 Nos)			
5	<b>STICK WELDING ACCESSORIES</b>				
A	ELECTRODE CABLE	YES (35 FT LONG)			
B	WORK CABLE	YES (30 FT LONG)			
C	FILTER PAPER	YES			
D	WORK CLAMP	YES			
E	ELECTRODE HOLDER	YES			
6	<b>TIG WELDING ACCESSORIES</b>				
A	INERT GAS CYLINDER	YES (125 CU. FT)			
B	REGULATOR WITH FLOWMETER (FOR INERT GAS CYLINDER)	YES			
C	INERT GAS HOSE	YES			
D	TIG WELDING TORCH	YES (AIR-COOLED)			
E	TIG WELDING TORCH QUANTITY	2 NOS			
F	TIG WELDING TORCH CABLE QUANTITY & LENGTH	2 NOS ( 35 FT LONG EACH)			
G	TIG WELDING TORCH CABLE COVER	YES			
H	PARTS KIT (FOR TIG WELDING TORCH )	YES			
I	REMOTE OUTPUT CONTROL	YES (WITH 35 FT LONG CABLE)			
J	WORK CLAMP WITH CABLE	YES (WITH 35 FT LONG CABLE)			
<b>NOTES:</b>					
1	VTS STANDS FOR " VENDOR TO SPECIFY"				
2	VENDOR TO ENSURE THAT ENGINE MANUFACTURER SHALL BE SELECTED SUCH THAT THE SPARE PARTS OF ENGINE ARE EASILY AVAILABLE IN THE COUNTRY.				
3	VENDOR TO ENSURE THAT NERT GAS HOSE SHOULD MATE WITH WELDING TORCH AND CYLINDER REGULATOR.				
4	VENDOR TO ENSURE THAT WELDING MACHINE, CYLINDER, ENGINE & ACCESSORIES SHALL COMPLY RELEVANT CERTIFICATIONS.				
5	VENDOR TO ENSURE THAT WELDING TORCH PARTS KIT SHOULD INCLUDE COLLETS, COLLET BODIES, BACK CAP, NOZZLES AND TUNGSTENS IN A VARIETY OF SIZES.				





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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### DATASHEET OF GASKET CUTTING MACHINE



Rev.	Date	Description	Prepared By	Checked By	Approved By
2	13-02-2018	Re-ssued for Tender	MN	SMHA	MAS
1	16-11-2017	Re-ssued for Tender	MN	SMHA	MAS
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CONSULTANT		DATA SHEET			
 ZISHAN ENGINEERS (PVT.) LTD.	DATASHEET OF GASKET CUTTING MACHINE				
	<b>DOCUMENT NO.</b>		<b>REVISION</b>	<b>DATE</b>	
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	MN	SMHA	MAS		2 OF 2
<b>Technical Data</b>					
1	QUANTITY	1 NOS.			
2	MACHINE TYPE	ROTARY STYLE GASKET CUTTER			
3	GASKET CUTTING RANGE	1/2" I.D TO 36" O.D GASKETS			
4	MAX. GASKET THICKNESS	4 MM			
5	STANDARD CUTTING BLADES	YES (6 NOS.)			
6	HEAVY-DUTY CUTTING BLADES	YES (6 NOS.)			
7	EXTENSION BAR	YES (25 INCHES LONG)			
8	REPLACEMENT TOOLS (FOR CUTTING BLADES)	YES			
9	CUTTING BOARD	YES (Size: Suit the cutting range)			
10	STORAGE CASE	YES			
11	BOLT HOLE LOCATOR TEMPLATE	YES			
12	HOLE PIERCING TOOL	YES			
13	HOLLOW PUNCH KIT	YES (SEE NOTE-1)			
14	DEAD BLOW HAMMER	YES			
15	PACKING HOOK REPLACEMENT TIP	YES			
<b>NOTES:</b>					
1	PUNCH HOLE KIT SHOULD INCLUDE ALL THE BOLT HOLE OF SIZES RANGING FROM 3/16" TO 2 1/2" & MANDREL.				



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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### DATASHEET OF GRINDING / CUTTING MACHINE

ISSUED FOR  
TENDER

Rev.	Date	Description	Prepared By	Checked By	Approved By
2	13-02-2018	Re-ssued for Tender	MN	SMHA	MAS
1	16-11-2017	Re-ssued for Tender	MN	SMHA	MAS
0	17-02-2017	Issued for Tender	MN	SMHA	MAS

CONSULTANT		DATA SHEET			
 ZISHAN ENGINEERS (PVT.) LTD.	DATASHEET OF GRINDING / CUTTING MACHINE				
	DOCUMENT NO.		REVISION	DATE	
CLIENT		165-4-DSM-207		2	13-02-2018
 OIL & GAS DEVELOPMENT COMPANY LTD.	PREPARED BY	CHECKED BY	APPROVED BY		SHEET
	MN	SMHA	MAS		2 OF 2

Technical Data		
1	QUANTITY	2 NOS.
2	RATED POWER	2600 WATT
3	NO-LOAD SPEED	6500 RPM
4	SAW BLADE DIAMETER	230 MM (APPROX.)
5	PROTECTIVE GUARD	YES
6	SPANNER	YES

<b>NOTES:</b>		
1	VENDOR TO ENSURE THAT A SET CONSISTING OF 12 NOS. OF SPARE BLADES SHALL BE PROVIDED.	



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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

## DATASHEET OF LASER ALIGNMENT TOOL FOR ROTATING EQUIPMENT



Rev.	Date	Description	Prepared By	Checked By	Approved By
2	13-02-2018	Re-issued for Tender	MN	SMHA	MAS
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CONSULTANT		DATA SHEET			
 ZISHAN ENGINEERS (PVT.) LTD.	DATASHEET OF LASER ALIGNMENT TOOL FOR ROTATING EQUIPMENT				
	DOCUMENT NO.		REVISION	DATE	
CLIENT	165-4-DSM-208		2	13-02-2018	
 OIL & GAS DEVELOPMENT COMPANY LTD.	PREPARED BY	CHECKED BY	APPROVED BY		SHEET
	MN	SMHA	MAS		2 OF 2
<b>Technical Data</b>					
1	QUANTITY	1			
2	MEASURING DISTANCE	UPTO 10 M (APPROX.)			
3	RELATIVE HUMIDITY	10 TO 90 %			
4	TEMPERATURE RANGE	-10°C TO 60°C			
5	<u>DISPLAY UNIT</u>				
A	DISPLAY	BACKLIGHT COLOR LCD & DAYLIGHT VIEWABLE			
B	STORAGE MEMORY	64 MB			
C	ENVIRONMENT PROTECTION	IP 65			
D	CONNECTIVITY	LOW-POWER, INDUSTRIAL WIRELESS NETWORK			
6	<u>MEASURING UNITS</u>				
A	TYPE OF LASER	RED DIODE LASER			
B	LASER WAVELENGTH	635 nm (NANO METER)			
C	LASER SAFETY CLASS	CLASS II			
D	LASER OUTPUT POWER	< 1 mW (MILLI WATT)			
E	DISPLACEMENT MEASUREMENT ACCURACY	±5 μm (MICRO METER)			
F	RELATIVE ACCELEROMETER ACCURACY	±0.1 DEGREES			
G	ENVIRONMENT PROTECTION	IP 65			
H	AMBIENT LIGHT PROTECTION	YES			
7	<u>ACCESSORIES</u>				
A	STANDARD SHAFT DIAMETER RANGE	UPTO 300 mm			
B	MECHANICAL SHAFT FIXTURES	YES (2 NOS)			
C	ADJUSTABLE CHAINS WITH TIGHTENING PIN	YES (2 NOS)			
D	ROD / FIXING BAR	YES (SEE NOTE-2)			
E	MEASURING TAPE	YES			
F	USB CABLE	YES			
G	EXTENSION CHAIN	YES (2 NOS)			
H	LASER LENS CLEANING CLOTH	YES			
I	SHIM KIT	YES			
<b>NOTES:</b>					
1	EQUIPMENT SHOULD COMPLY WITH RELEVANT CERTIFICATIONS.				
2	ROD/ FIXING BAR SHALL BE PROVIDED 4 NOS OF 150 MM & 4 NOS OF 300 MM, WHICH CAN BE SCREWED TOGETHER TO INCREASE THE LENGTH.				



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## OIL & GAS DEVELOPMENT COMPANY LTD.



### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### DATASHEET OF MAGNETIC PARTICLE INSPECTION

### HAND HELD KIT



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	DOCUMENT NO.		REVISION	DATE
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 OIL & GAS DEVELOPMENT COMPANY LTD.	PREPARED BY	CHECKED BY	APPROVED BY	SHEET
	MN	SMHA	MAS	2 OF 2
<b>Technical Data</b>				
1	QUANTITY	1 NOS.		
2	FIELD INDICATOR (MAGNETOMETER)	YES (SEE NOTE-3)		
3	PORTABLE POWER SUPPLY	YES		
4	YOKE	YES (AC/DC)		
5	CARRYING CASE	YES		
<u>FOR DRY METHOD</u>				
1	POWDER BULB	YES		
2	DRY METHOD POWDER	YES (SEE NOTE-4)		
<u>FOR WET METHOD</u>				
1	AEROSOLS CANS:			
A	WHITE CONTRAST PAINT	YES (2 NOS. OF 375 ML EACH)		
B	BLACK OXIDE BATH	YES (2 NOS. OF 375 ML EACH)		
C	CLEANER / REMOVER	YES (4 NOS. OF 375 ML EACH)		
<u>FOR WET FLUORESCENT METHOD</u>				
1	AEROSOLS CANS:			
A	FLUORESCENT PARTICLE BATH	YES (4 NOS. OF 375 ML EACH)		
B	CLEANER / REMOVER	YES (4 NOS. OF 375 ML EACH)		
2	PROTECTIVE UV SPECTACLES	YES		
3	PIE GAUGE	YES		
4	UV LED FLASH LIGHT KIT	YES		
<b>NOTES:</b>				
1	KIT SHOULD COMPLY WITH RELEVANT STANDARDS (SUCH AS ASTM E2297-04, ASTM E709, E1444)			
2	UV LED FLASH LIGHT KIT SHOULD INCLUDE WRIST STRAP, BATTERY CHARGER, SPARE BATTERY & CALIBRATION CERTIFICATE			
3	FIELD INDICATOR (MAGNETOMETER) SHOULD ENSURE FOLLOWING: - STRONG MAGNETIC FIELD DURING INSPECTION. - WORKPIECE SHALL BE FULLY DE-MAGNETIZED AFTER INSPECTION.			
4	4 NOS AEROSOLS CANS OF FOLLOWING COLORS & 800 GRAM POWDER EACH: - GREY, BLACK, RED & YELLOW			





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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### DATASHEET OF OXY-ACETYLENE WELDING SET



Rev.	Date	Description	Prepared By	Checked By	Approved By
2	13-02-2018	Re-ssued for Tender	MN	SMHA	MAS
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 ZISHAN ENGINEERS (PVT.) LTD.	DATASHEET OF OXY-ACETYLENE WELDING SET				
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 OIL & GAS DEVELOPMENT COMPANY LTD.	<b>PREPARED BY</b>	<b>CHECKED BY</b>	<b>APPROVED BY</b>		<b>SHEET</b>
	MN	SMHA	MAS		2 OF 2
<b>Technical Data</b>					
1	QUANTITY	1 NOS.			
2	OXYGEN & ACETYLENE CYLINDERS WITH REGULATORS	YES			
3	FLASH BACK ARRESTOR (TORCH & REGULATOR)	YES			
4	OXYGEN CYLINDER	YES (1 NOS. OF 125 CU. FT. CAPACITY)			
5	ACETYLENE CYLINDER	YES (1 NOS. OF 75 CU. FT. CAPACITY)			
6	GAS WELDING & CUTTING KIT	YES (SEE NOTE-2)			
7	PORTABLE OXYGEN + ACETYLENE GAS CYLINDER TROLLEY	YES			
8	GOGGLES	YES (SHADE 5 SAFETY GLASSES)			
9	HOSE PIPE SIZE	VTS (SEE NOTE-3)			
10	HOSE PIPE LENGTH	5 M			
11	HOSE CONNECTORS	YES			
<b>NOTES:</b>					
1	VTS STANDS FOR " VENDOR TO SPECIFY"				
2	GAS WELDING & CUTTING KIT MUST INCLUDE TORCH HANDLE, CUTTING ATTACHMENT, WELDING TIP, CUTTING NOZZLE, MIXER, NOZZLE & TIP CLEANER, FLINT LIGHTER AND COMBINATION SPANNER.				
3	VENDOR TO ENSURE THAT SIZE OF HOSE PIPE IS SELECTED SUCH THAT IS IT SHALL MATE WITH REGULATOR & THE TORCH.				
4	VENDOR TO ENSURE THAT CYLINDERS & ACCESSORIES SHALL COMPLY WITH RELEVANT STANDARDS.				
5	CYLINDER TROLLEY SHOULD BE SUITABLE TO ACCOMMODATE BOTH CYLINDERS				



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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### DATASHEET OF PLASMA CUTTING TORCH SET



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CONSULTANT		DATA SHEET			
	ZISHAN ENGINEERS (PVT.) LTD.	DATASHEET OF PLASMA CUTTING TORCH SET			
		DOCUMENT NO.		REVISION	DATE
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	OIL & GAS DEVELOPMENT COMPANY LTD.	PREPARED BY	CHECKED BY	APPROVED BY	SHEET
		MN	SMHA	MAS	2 OF 2
<b>Technical Data</b>					
1	QUANTITY	1 NOS.			
<b>CUTTING MACHINE</b>					
1	CUTTING RANGE	UPTO 1 INCH			
2	FREQUENCY	50 HZ			
3	VOLTAGE RANGE	200 TO 600 VOLTS			
4	AIR PRESSURE GUAGE	YES			
5	REGULATOR ADJUSTMENT	YES			
6	OUTPUT CURRENT CONTROL	YES			
7	AIR PURGE CONTROL	YES			
8	COOLING FAN	YES			
9	AIR INLET FOR EXTERNAL COMPRESSED AIR	YES			
<b>ACCESSORIES</b>					
1	INPUT CABLE	YES			
2					
3					
4					
5					
6					
<b>NOTES:</b>					
1	VENDOR TO ENSURE THAT PLASMA TORCH SHOULD BE ABLE TO FOCUS ARC FOR DIFFERENT MATERIAL THICKNESS.				



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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### DATASHEET OF PORTABLE HARDNESS METER

ISSUED FOR  
TENDER

Rev.	Date	Description	Prepared By	Checked By	Approved By
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CONSULTANT		DATA SHEET			
 ZISHAN ENGINEERS (PVT.) LTD.	DATASHEET OF PORTABLE HARDNESS METER				
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CLIENT	165-4-DSM-212		2	13-02-2018	
 OIL & GAS DEVELOPMENT COMPANY LTD.	PREPARED BY	CHECKED BY	APPROVED BY		SHEET
	MN	SMHA	MAS		2 OF 2
<b>TECHNICAL DATA</b>					
1	QUANTITY	2 NOS.			
2	MEASURING RANGE	200-960 HL			
3	ACCURACY	± 0.5%			
4	OPERATING TEMPERATURE	-10°C TO 50°C			
5	BACK LIGHT ( FOR LCD DISPLAY)	YES			
6	MEMORY CAPACITY	100 GROUPS			
7	CALIBRATED TEST BLOCK	YES			
8	CLEANING BRUSH	YES			
9	AUTOMATIC CONVERSION TO ROCKWELL, BRINELL, VICKER & SHORE	YES			
10	IMPACT DIRECTION	VERTICAL & HORIZONTAL			
11	USB PORT FOR TRANSFERING DATA TO PC	YES			
12	PORTABLE BATTERY	YES ( WITH LOW POWER INDICATOR)			
13	CARRY CASE	YES			
<b>NOTES:</b>					
1	VENDOR TO PROVIDE SUPPORTING SOFTWARE FOR DATA STORAGE & MANAGEMENT WITH RELEVANT MANUAL, ALONG WITH THE EQUIPMENT. VENDOR TO ALSO ENSURE THAT THE SOFTWARE SHALL BE USER FRIENDLY.				
2	METER SHOULD BE ABLE TO MEASURE HARDNESS OF STEEL, CAST STEEL, ALLOY TOOL STEEL, GREY CAST IRON, CAST ALUMINIUM, BRASS, BRONZE & WROUGHT COPPER ALLOY, ETC.				
3	METER SHOULD COMPLY WITH RELEVANT CERTIFICATION (SUCH AS ASTM A1038 & E140)				



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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### DATASHEET OF PORTABLE PUMP

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TENDER

Rev.	Date	Description	Prepared By	Checked By	Approved By
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CONSULTANT		DATA SHEET			
	ZISHAN ENGINEERS (PVT.) LTD.	DATASHEET OF PORTABLE PUMP			
		DOCUMENT NO.		REVISION	DATE
CLIENT		165-4-DSM-213		2	13-02-2018
	OIL & GAS DEVELOPMENT COMPANY LTD.	PREPARED BY	CHECKED BY	APPROVED BY	SHEET
		MN	SMHA	MAS	2 OF 2
<b>Technical Data</b>					
1	QUANTITY	1 NOS.			
<b>PUMP</b>					
1	INLET / OUTLET DIAMETER	2 INCH (VTC)			
2	TOTAL HEAD LIFT (MAX)	32 M			
3	SUCTION HEAD LIFT (MAX)	7.5 M			
4	MAXIMUM DISCHARGE CAPACITY	670 L /min.			
5	SELF PRIMING TIME (AT 5 M)	VTS			
<b>ENGINE</b>					
1	MANUFACTURER	HONDA OR EQUIVALENT			
2	ENGINE TYPE	4-STROKE, OVERHEAD VALVE SINGLE CYLINDER			
3	NET POWER	Suitable for max flow of Pump @ 3600 RPM			
4	FUEL TANK CAPACITY	5 L (VTC)			
5	CONTINUOUS RUNNING TIME	2 HOURS (APPROX.)			
<b>ACCESSORIES</b>					
1	HOSE PIPE WITH COUPLING	YES ( 2 NOS. & 7.5 M LONG EACH)			
2	FOOT VALVE	YES			
<b>NOTES:</b>					
1	VTC STANDS FOR " VENDOR TO CONFIRM"				
2	VTC STANDS FOR " VENDOR TO SPECIFY"				
3	VENDOR TO ENSURE THAT ENGINE MANUFACTURER SHALL BE SELECTED SUCH THAT THE SPARE PARTS OF ENGINE ARE EASILY AVAILABLE IN THE COUNTRY.				
4	VENDOR TO ENSURE THAT PUMP APPLICATION SHALL INCLUDE PUMPING OF WATER, TRASH, SLUDGE & OIL.				





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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### DATASHEET OF TIG WELDING MACHINE



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CONSULTANT		DATA SHEET			
	ZISHAN ENGINEERS (PVT.) LTD.	DATASHEET OF TIG WELDING MACHINE			
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	OIL & GAS DEVELOPMENT COMPANY LTD.	PREPARED BY	CHECKED BY	APPROVED BY	SHEET
		MN	SMHA	MAS	2 OF 2
<b>TECHNICAL DATA</b>					
1	QUANTITY	2 NOS			
<b>WELDING MACHINE</b>					
1	WELDING PROCESSES	TIG WELDING			
2	WELDING CURRENT TYPE	AC/DC			
3	OUTPUT RANGE	5-500 AMPS			
4	FREQUENCY	50 HZ			
5	AMPERAGE DISPLAY METER	YES			
6	THERMAL LED	YES			
7	OUTPUT CONTROL DIAL	YES			
8	POSITIVE & NEGATIVE WELDING OUTPUT STUDS	YES			
9	VOLTAGE DISPLAY METER	YES			
10	POWER SWITCH	YES			
<b>ACCESSORIES (FOR EACH WELDING MACHINE)</b>					
1	INERT GAS CYLINDER	YES (125 CF)			
2	REGULATOR WITH FLOWMETER (FOR INERT GAS CYLINDER)	YES			
3	INERT GAS HOSE	YES			
5	TIG WELDING TORCH	YES (AIR-COOLED)			
6	TIG WELDING TORCH QUANTITY	2 NOS			
7	TIG WELDING TORCH CABLE QUANTITY & LENGTH	2 NOS & 25 FT LONG EACH			
8	TIG WELDING TORCH CABLE COVER	YES			
9	PARTS KIT (FOR TIG WELDING TORCH )	YES			
10	REMOTE OUTPUT CONTROL	YES (WITH 25 FT LONG CABLE)			
11	WORK CLAMP WITH CABLE	YES (WITH 25 FT LONG CABLE)			
12	HEADSHIELD	YES (4 Nos)			
13	TIG WELDING GLOVES	YES (12 Nos)			
14	UNDER CARRIAGE	YES			
<b>NOTES:</b>					
1	VTS STANDS FOR " VENDOR TO SPECIFY".				
2	VENDOR TO ENSURE THAT INERT GAS HOSE SHALL MATE WITH WELDING TORCH AND CYLINDER REGULATOR.				
3	VENDOR TO ENSURE THAT WELDING TORCH PARTS KIT SHALL INCLUDE COLLETS, COLLET BODIES, BACK CAP, NOZZLES AND TUNGSTENS IN A VARIETY OF SIZES.				
4	VENDOR TO ENSURE THAT WELDING MACHING, CYLINDER & ACCESSORIES SHALL COMPLY RELEVANT STANDARDS.				



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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### DATASHEET OF PORTABLE ULTRASONIC THICKNESS METER



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	ZISHAN ENGINEERS (PVT.) LTD.	DATASHEET OF PORTABLE ULTRASONIC THICKNESS METER			
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	OIL & GAS DEVELOPMENT COMPANY LTD.	PREPARED BY	CHECKED BY	APPROVED BY	SHEET
		MN	SMHA	MAS	2 OF 2
<b>Technical Data</b>					
1	QUANTITY	2 NOS.			
2	MEASUREMENT RANGE IN STEEL	0.2-250 MM			
3	VELOCITY RANGE	1250 - 10,000 M/S			
4	RESOLUTION	0.01 MM			
5	OPERATING TEMPERATURE	-20 TO 50°C			
6	MATERIAL SURFACE TEMPERATURE	-20 TO 537°C			
7	AUTOMATIC PROBE WEAR INDICATOR	YES			
8	ULTRASONIC THICKNESS POTTED PROBES	YES TWO NOS. One for Low Temp (-20 – 60 °C) & Other for High Temp. (60 – 550 °C)			
9	CABLE	YES			
10	COUPLANT	YES			
11	SELECTABLE UNITS	ENGLISH / METRIC			
12	BACKLIGHTS	LED & SELECTABLE (ON/ OFF/ AUTO)			
13	SHUT OFF	AUTO TIME OUT (AFTER USER DEFINED X MINUTES)			
14	SOFTWARE	YES (SEE NOTE-4)			
15	POWER SOURCE	PORTABLE & TYPICALLY OPERATES FOR 200 HOURS			
16	KEYPAD	YES (SEE NOTE-3)			
17	BANDWIDTH	0.5 TO 20 MHz			
18	MEASUREMENT RATE	4 NOS. PER SECOND			
19	BODY CASE	RESISTANT TO IMPACT, SPLASH PROOF & ENVIRONMENTALLY SEALED			
20	CARRYING CASE	YES			
<b>NOTES:</b>					
1	APPLCATION OF EQUIPMENT SHALL INCLUDE CORROSION, PITTING, TUBES, PIPES, TANKS, BOILERS, PRESSURE VESSELS, SHIP HULLS, GLASS & PLASTICS, ETC.				
2	EQUIPMENT SHOULD COMPLY WITH RELEVANT CERTIFICATION (SUCH AS ASTM E797, BS EN 15317)				
3	SEALED MEMBRANE WHICH IS RESISTANT TO BOTH WATER AND PETROLEUM PRODUCTS				
4	VENDOR TO PROVIDE SUPPORTING SOFTWARE FOR DATA STORAGE AND MANAGEMENT & RELEVANT MANUALS, ALONG WITH THE EQUIPMENT. VENDOR TO ALSO ENSURE THAT SUPPORTING SOFTWARE SHALL BE USER FRIENDLY. SOFTWARE SHALL ALSO BE ABLE TO TRANSFER CUSTOM VELOCITIES FROM PC TO THE GAUGE.				



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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### DATASHEET OF VIBROMETER WITH ANALYZER

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CONSULTANT		DATA SHEET			
 ZISHAN ENGINEERS (PVT.) LTD.	DATASHEET OF VIBROMETER WITH ANALYZER				
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	MN	SMHA	MAS		2 OF 2
<b>TECHNICAL DATA</b>					
1	QUANTITY	1 NOS.			
2	MEASUREMENT OF VABRATION VALUE	YES (ACCELERATION, VELOCITY & DISPLACEMENT)			
3	MEASUREMENT OF SYNCHRONOUS VIBRATION VALUE & PHASE	YES			
4	ANALYSIS OF VIBRATION IN FREQUENCY RANGE	YES			
5	BODE PLOT (MONITORING VIBRATION IN RELATION TO TIME OR VELOCITY)	YES			
6	WAVEFORM	YES			
7	MEASUREMENT TYPES	EFFECTIVE VALUE (RMS), PEAK VALUE (PK), PEAK TO PEAK VALUE (PP)			
8	TEMPERATURE RANGE	-10°C TO 50°C			
9	AIR HUMIDITY	0 TO 95 % (WITHOUT CONDENSATE)			
10	RECORD & DISPLAY OVERALL VIBRATION TREND OVER TIME	YES (ALSO WHEN ROTATING VELOCITY CHANGE)			
11	SIMULTANEOUS MEASURING CHANNELS	YES (2 NOS)			
12	USB PORT FOR DATA TRANSFER TO PC	YES			
13	FREQUENCY BANDS RANGE (FOR MEASURING VIBRATION VALUE)	3 TO 20,000 HZ			
14	MEASUREMENT OF ROTATING BODY VELOCITY	YES			
15	FFT ANALYSIS	YES			
16	LIST OF PEAK VALUES	YES			
17	BALANCING FUNCTIONS	YES (WITH ONE OR TWO PLANES)			
18	BATTERY LIFE	> 10 HOURS FOR CONTINUOUS USE			
19	<u>UNITS OF MEASUREMENT</u>				
A	ACCELERATION	g			
B	VELOCITY	MM/S OR INCH/S			
C	DSPLACEMENT	µM OR MILS			
D	FREQUENCY	HZ OR CPM			
<b>NOTES:</b>					
1	VENDOR TO PROVIDE SUPPORTING SOFTWARE FOR DATA STORAGE & MANAGEMENT WITH RELEVANT MANUAL, ALONG WITH THE EQUIPMENT. VENDOR TO ALSO ENSURE THAT THE SOFTWARE SHALL BE USER FRIENDLY.				



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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### DATASHEET OF BEARING HEATER



Rev.	Date	Description	Prepared By	Checked By	Approved By
2	13-02-2018	Re-issued for Tender	MN	SMHA	MAS
1	16-11-2017	Re-issued for Tender	MN	SMHA	MAS
0	17-02-2017	Issued for Tender	MN	SMHA	MAS

CONSULTANT		DATA SHEET			
 ZISHAN ENGINEERS (PVT.) LTD.	DATASHEET OF BEARING HEATER				
	<b>DOCUMENT NO.</b>		<b>REVISION</b>	<b>DATE</b>	
CLIENT		165-4-DSM-217	2	13-02-2018	
 OIL & GAS DEVELOPMENT COMPANY LTD.	<b>PREPARED BY</b>	<b>CHECKED BY</b>	<b>APPROVED BY</b>		<b>SHEET</b>
	MN	SMHA	MAS		2 OF 2
<b>Technical Data</b>					
1	QUANTITY	1			
2	MAXIMUM BEARING WEIGHT	40 KG			
3	BORE DIAMETER RANGE	20 - 300 MM (0.8 - 11.8 INCH)			
4	TEMPERATURE CONTROL	YES ( 20 TO 250°C )			
5	MAXIMUM HEATING TEMPERATURE	250°C			
6	TWO STEP POWER SETTING OPTION	YES ( 50% / 100%)			
7	MAGNETIC TEMPERATURE PROBE	YES			
8	AUTOMATIC DEMAGNETISATION	YES			
9	HEATING TIME MODE	YES			
10	HEAT RESISTANT GLOVES ( HANDLING UPTO 500°C )	YES ( 4 PAIRS)			
11	INTEGRATED CARRYING HANDLES	YES			
<b>NOTE:</b>					
1	VENDOR TO ENSURE THAT EQUIPMENT SHALL COMPLY WITH RELEVANT CERTIFICATIONS.				





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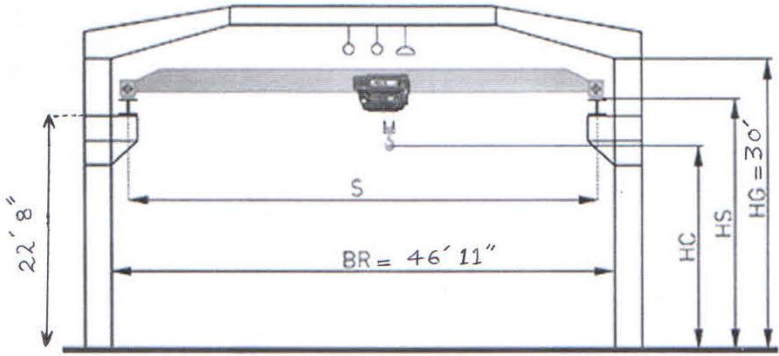
## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### DATASHEET OF OVERHEAD CRANE



Rev.	Date	Description	Prepared By	Checked By	Approved By
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CONSULTANT		DATA SHEET			
 ZISHAN ENGINEERS (PVT.) LTD.	DATASHEET OF OVERHEAD CRANE				
	DOCUMENT NO.		REVISION	DATE	
CLIENT	165-4-DSM-218		2	13-02-2018	
 OIL & GAS DEVELOPMENT COMPANY LTD.	PREPARED BY	CHECKED BY	APPROVED BY	SHEET	
	MN	SMHA	MAS	2 OF 2	
<b>Technical Data</b>					
1	QUANTITY	1			
2	LOAD CAPACITY	15,000 KG ( 15 TONS)			
3	HIGHEST HOOK POSITION REQUIRED (HC)	VTS			
4	LIFTING SPEED	STANDARD 0.8 / 5M / MIN (VTC)			
<b>INTERFACE DATA</b>					
1	BUILDING STATUS	BUILDING COMPLETE			
2	CLEAR WIDTH INSIDE BUILDING (BR)	46 ft. 11 in.			
3	FLOOR TO TOP CRANE RAIL (HS)	VTS			
4	HEIGHT TO LOWEST OBSTRUCTION (HG)	30 ft.			
5	CRANE SPAN (S)	VTS			
6	GANTRY	YES ( VENDOR TO SUPPLY )			
A	GANTRY TRACK LENGTH	VTS			
B	BUILDING CONSTRUCTION TYPE	STEEL			
C	SUPPORT SPACING	VTS			
					
<b>NOTES:</b>					
1	VTS STANDS FOR "VENDOR TO SPECIFY"				
2	INSTALLATION OF OVERHEAD CRANE (COMPLETE IN ALL ASPECTS) IN THE MECHANICAL WORKSHOP BUILDING IS INCLUDED IN VENDOR'S SCOPE. FOR DIMENSIONS OF MECHANICAL WORKSHOP BUILDING, PLEASE REFER TO THE SKETCH ABOVE & VENDOR DRAWINGS ATTACHED WITH THE TENDER DOCUMENT.				

**ANNEXURE – III**

**BOQ/BID PRICE SCHEDULE**

**LIST OF BOQ/BID PRICE SCHEDULE**

<b><u>S. No.</u></b>	<b><u>Document Nos.</u></b>	<b><u>Descriptions</u></b>
1.	165-4-BQM-079	BOQ/Bid Price Schedule for Supply of Mechanical Workshop Equipment (Group - A: Mechanical Maintenance Machines)
2.	165-4-BQM-080	BOQ/Bid Price Schedule for Supply of Mechanical Workshop Equipment (Group - B: Welding/ Cutting Machines For Mechanical Workshop)
3.	165-4-BQM-081	BOQ/Bid Price Schedule for Supply of Mechanical Workshop Equipment (Group - C: Maintenance Tools For Mechanical Workshop)
4.	165-4-BQM-082	BOQ/Bid Price Schedule for Supply of Mechanical Workshop Equipment (Group - D: Mechanical Inspection Tools)
5.	165-4-BQE-015	BOQ/Bid Price Schedule for Supply of Electrical Workshop Equipment (Group - E: Electrical Inspection Tools)
6.	165-4-BQI-018	BOQ/Bid Price Schedule for Supply of Instrumentation Workshop Equipment (Group - F: Instrument Testing Tools)
7.	165-4-BQI-019	BOQ/Bid Price Schedule for Supply of Workshop Equipment (Group - G: Electrical/ Instrument Tools)
8.	165-4-BQI-020	BOQ/Bid Price Schedule for Supply of Telemetry Workshop Equipment (Group - H: Telemetry Testing Tools)
9.	165-4-BQM-083	BOQ/Bid Price Schedule for Supply of Mechanical Workshop Equipment (Group – I: Lifting Equipment For Mechanical Workshop)
10.	165-4-BQM-086	BOQ/Bid Price Schedule for Supply of Mechanical Workshop Equipment (Group – J: Air Compressor)
11.	165-4-BQM-087	BOQ/Bid Price Schedule for Supply of Mechanical Workshop Equipment (Group – K: Pumps)
12.	165-4-BQI-021	BOQ/Bid Price Schedule for Supply of Workshop Equipment (Group – L: Combination Pressure Test Bench)



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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT (GROUP - A: MECHANICAL MAINTENANCE MACHINES)



0	16-11-2017	Issued for Tender	AK	SMHA	MAS
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**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT**

<b>MECHANICAL MAINTENANCE MACHINES (GROUP - A)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1)	SUPPLY & TESTING OF THE FOLLOWING MECHANICAL MAINTENANCE MACHINES:					
a)	CENTRE LATHE MACHINE	1	NOS.			
b)	UNIVERSAL DRILLING / BORING MACHINE	1	NOS.			
c)	GRINDING / CUTTING MACHINE	2	NOS.			
d)	POWER HACK SAW	1	NOS.			
<b>TOTAL</b>						

**NOTE:**

- 1) THE ABOVE PRICE SHALL BE INCLUSIVE OF ALL TAXES, EXCEPT GST.
- 2) GENERAL SALES TAX MUST BE QUOTED SEPARATELY.
- 3) SPECIFICATIONS & DATASHEETS OF ABOVE MENTIONED EQUIPMENT ARE ATTACHED IN VOLUME-II OF THE TENDER DOCUMENT. BIDDER IS REQUESTED TO SUPPLY / INSTALL THE ABOVE IN ACCORDANCE WITH THE SAID DATASHEETS / SPECIFICATIONS.



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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT

### (GROUP - B: WELDING/ CUTTING MACHINES FOR MECHANICAL WORKSHOP)



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**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT**

<b>WELDING/ CUTTING MACHINES FOR MECHANICAL WORKSHOP (GROUP - B)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1)	SUPPLY & TESTING OF THE FOLLOWING MISCELLANEOUS MAINTENANCE TOOLS FOR MECHANICAL WORKSHOP:					
a)	ENGINE DRIVEN STICK & TIG WELDING MACHINE WITH AIR COOLED ACCESSORIES AND WHEEL MOUNTED SKID	1	NOS.			
b)	TIG WELDING MACHINE (OUTPUT CURRENT RANGE UP TO 500 AMPS AC/DC & DUTY CYCLE 60 HZ)	2	NOS.			
c)	PLASMA CUTTING TORCH SET	1	NOS.			
d)	OXY-ACETYLENE WELDING SET WITH ALL ACCESSORIES INCLUDING CYLINDERS, TROLLEY, PRESSURE GAUGES, PIPES, TORCHES, ETC	1	NOS.			
<b>TOTAL</b>						

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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT (GROUP - C: MAINTENANCE TOOLS FOR MECHANICAL WORKSHOP)



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**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT**

<b>MAINTENANCE TOOLS FOR MECHANICAL WORKSHOP (GROUP - C)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1)	SUPPLY & TESTING OF THE FOLLOWING MAINTENANCE TOOLS FOR MECHANICAL WORKSHOP:					
a)	HEAVY DUTY FULL AUTOMATIC PROFESSIONAL INDUCTION HEATER WITH MAGNETIC PROBES. BEARING BORE (INNER DIA) SIZE: 2-30 INCH, TEMP. RANGE: 0-250 DEG C, TIME CONTROL: 0 - 60 MINUTES.	1	NOS.			
b)	BEARING FITTING TOOL KIT. SHAFT SIZE: 1- 10 INCH	1	NOS.			
c)	BEARING HEATER	1	NOS.			
d)	PROFESSIONAL HEAVY DUTY MULTIFUNCTION HYDRAULIC BEARING PULLER KIT WITH 2-ARMS AND 3-ARMS.	2	NOS.			
<b>TOTAL</b>						

**NOTE:**

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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT (GROUP - D: MECHANICAL INSPECTION TOOLS)



Rev.	Date	Description	Prepared By	Checked By	Approved By
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**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT**

<b>MECHANICAL INSPECTION TOOLS (GROUP - D)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1	SUPPLY OF FOLLOWING INSTRUMENT INSPECTION TOOLS:					
a)	6 INCH LCD DIGITAL VERNIER CALIPER MAKE MITUTOYO OR EQUIVALENT	3	NOS.			
b)	MICROMETER GAUGE 150 MM MAKE MITUTOYO OR EQUIVALENT	3	NOS.			
c)	PORTABLE ULTRASONIC THICKNESS METER	2	NOS.			
d)	PORTABLE HARDNESS METER	2	NOS.			
e)	VIBROMETER WITH ANALYZER	1	NOS.			
f)	MAGNETIC PARTICLE INSPECTION HAND HELD KIT	1	NOS.			
g)	LASER ALIGNMENT TOOL FOR ROTATING EQUIPMENT	1	NOS.			
<b>TOTAL</b>						

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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF ELECTRICAL WORKSHOP EQUIPMENT (GROUP - E: ELECTRICAL INSPECTION TOOLS)

ISSUED FOR  
TENDER

Rev.	Date	Description	Prepared By	Checked By	Approved By
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**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF ELECTRICAL WORKSHOP EQUIPMENT**

<b>ELECTRICAL INSPECTION TOOLS (GROUP - E)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1)	SUPPLY OF FOLLOWING ELECTRICAL INSPECTION TOOLS:					
a)	UNDERGROUND LOW AND MEDIUM VOLTAGE (220V-11KV) POWER CABLE LOCATOR ALONG WITH SIGNAL GENERATOR AND ACCESSORIES, DEPTH UP TO 03-METERS . MODEL: EZICAT200 UNDERGROUND LOCATOR ALONG WITH EZITRACE SIGNAL GENERATOR AND EZIROD SERVICE TRACER AND ACCESSORIES OR EQUIVALENT	1	NOS.			
b)	UNDERGROUND LOW AND MEDIUM VOLTAGE (220V-11KV) CABLE FAULT LOCATOR WITH TRANSMITTER & RECEIVER SYSTEM. DEPTH UP TO 03-METERS AND LENGTH UP TO 2KM.	1	NOS.			
c)	THERMOGRAPHIC CAMERA (THERMAL IMAGING CAMERA) WITH SOFTWARE AND SD/USB PORT FACILITIES OF FOLLOWING SPECIFICATIONS: IR SENSOR: 1024X768 OR HIGHER, THERMAL SENSITIVITY: <0.02 AT 30 DEG C, MINIMUM FOCUS DISTANCE: 0.4M, 4.3 INCH TOUCH COLOR SCREEN DISPLAY WITH 800X840 PIXELS OR HIGHER LATEST, VISUAL IMAGE: FULL COLOR, INFRARED IMAGE: FULL COLOR IR IMAGE, TEMP. RANGE: -40 DEG C TO 2000 DEG C. OR EQUIVALENT OR HIGHER LATEST MODELS.	1	NOS.			
d)	DIGITAL PHASE SEQUENCE METER. VOLTAGE RANGE: 12 - 1000 VOLTS, FREQUENCY: 15 - 400 HZ, OPERATING TIMER: CONTINUOUS, OPERATING TEMP.: 0 - 60 DEG C, DUST AND WATER PROOF IP: 64	1	NOS.			

**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF ELECTRICAL WORKSHOP EQUIPMENT**

<b>ELECTRICAL INSPECTION TOOLS (GROUP - E)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
e)	<u>SCOPE METER</u>  NUMBER OF CHANNELS: 500 MHZ, 4 CHANNELS, REAL-TIME SAMPLE RATE: 5-GS/S, INPUTS 4X BNC INPUT SCOPE PLUS DMM INPUT, INDEPENDENTLY FLOATING ISOLATED INPUTS UP TO 1000 V CAT III/600 V CAT IV BETWEEN INPUTS, REFERENCES AND GROUND, INPUT SENSITIVITY 2 MV-100 V/DIV PLUS VARIABLE ATTENUATION, TRIGGER TYPES CONNECT-AND-VIEW™, FREE RUN, SINGLE SHOT, EDGE, DELAY, DUAL SLOPE, VIDEO, VIDEO LINE, SELECTABLE PULSE WIDTH, N-CYCLE, SCOPE MEASUREMENTS CURSOR: 7, AUTOMATIC: 30, MAXIMUM RECORD LENGTH SCOPERECORD MODE: 30,000 PTS PER INPUT, SCOPE MODE: 10,000 PTS PER INPUT, DISPLAY: FULL COLOR LCD WITH FAST UPDATE RATE, OPERATING TEMPERATURE 0°C TO 60°C. OR EQUIVALENT AND LATEST SPECS.	2	NOS.			
<b>TOTAL</b>						

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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

## BOQ/BID PRICE SCHEDULE FOR SUPPLY OF INSTRUMENTATION WORKSHOP EQUIPMENT (GROUP - F: INSTRUMENT TESTING TOOLS)



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**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF INSTRUMENTATION WORKSHOP EQUIPMENT**

<b>INSTRUMENT TESTING TOOLS (GROUP - F)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1	SUPPLY OF FOLLOWING INSTRUMENT TESTING TOOLS:					
a)	PORTABLE, EXPLOSION-PROOF IR TEST LAMP P/N TL-2055, TEMPERATURE RANGE: -30° TO +85° C, WITH ONE SPARE RECHARGEABLE BATTERY P/N PSU-15 100 – 240 VAC, MAKE: HONEYWELL OR EQUIVALENT	1	NOS.			
c)	HAND TORCH, EXPLOSION PROOF, IP 64, POWER LED, RECHARGEABLE BATTERY WITH ITS CHARGER, CHARGING VOLTAGE 220VAC, 50HZ, OR EQUIVALENT	2	NOS.			
d)	GLASS THERMOMETER SETS, ASTM CERTIFIED WITH CALIBRATION CERTIFICATE, MAKE THERMCO OR EQUIVALENT RANGE 0-650F, MODEL/CATALOG NUMBER ACC6270F4FC	2	NOS.			
e)	PNEUMATIC PRESSURE CALIBRATOR, SERIES 65-120, RANGE -100 TO 850" WC, DUAL SCALE PSI & INCH WC, WITH FITTING ACCESSORY (FLEXIBLE TUBE & TUBE FITTING), MAKE WALLACE TIERNAN OR EQUIVALENT (WITH CARRING CASE AND ACCESSORIES)	1	NOS.			
f)	MASTER DIGITAL PRESSURE TESTING GAUGE, RANGE UPTO 300 PSI (NPT: 1/4" MALE), 0.05% FULL SCALE ACCURACY, MODEL DPI-104, BATTERY OPERATED WITH ONE SPARE BATTERY, MAKE DRUCK OR EQUIVALENT	1	NOS.			
g)	MASTER DIGITAL PRESSURE TESTING GAUGE, RANGE UPTO 1000 PSI (NPT: 1/4" MALE), 0.05% FULL SCALE ACCURACY, MODEL DPI-104, BATTERY OPERATED WITH ONE SPARE BATTERY, MAKE DRUCK OR EQUIVALENT	1	NOS.			
h)	MASTER DIGITAL PRESSURE TESTING GAUGE, RANGE UPTO 3000 PSI (NPT: 1/4" MALE), 0.05% FULL SCALE ACCURACY, MODEL DPI-104, BATTERY OPERATED WITH ONE SPARE BATTERY, MAKE DRUCK OR EQUIVALENT	1	NOS.			
i)	FIELD COMMUNICATOR 475, INTRINSICALLY SAFE, LATEST MODEL 475 F P 1 E K L U G M T S MAKE: EMERSON	1	NOS.			
j)	MULTIFUNCTION CALIBRATOR, MAKE DRUCK, MODEL DPI 880(RANGE UPTO 100 KHZ) OR EQUIVALENT, COLD JUNCTION (CJ) COMPENSATION: AUTOMATIC/MANUAL, MEASURE MA, VOLTS/MV, HZ/PULSE COUNT, SUPPLY MA, VOLTS/MV, HZ/PULSE COUNT, MEASURE/SIMULATE RTD, TC & RESISTANCE	1	NOS.			
<b>TOTAL</b>						

**NOTE:**

- 1) THE ABOVE PRICE SHALL BE INCLUSIVE OF ALL TAXES, EXCEPT GST.
- 2) GENERAL SALES TAX MUST BE QUOTED SEPARATELY.



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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF WORKSHOP

### EQUIPMENT

### (GROUP - G: ELECTRICAL / INSTRUMENT TOOLS)



Rev.	Date	Description	Prepared By	Checked By	Approved By
1	13-02-2018	Re-issued for Tender	AK	SMHA	MAS
0	16-11-2017	Issued for Tender	AK	SMHA	MAS

**OIL & GAS DEVELOPMENT COMPANY LTD.**  
**BOQ/BID PRICE SCHEDULE FOR SUPPLY OF WORKSHOP EQUIPMENT**

<b>ELECTRICAL/ INSTRUMENT TOOLS (GROUP - G)</b>						
ITEM	MATERIAL DESIGNATION	QTY.	UNIT	UNIT PRICE IN PKR (FOR BASIS)	TOTAL PRICE IN PKR (FOR BASIS)	REMARKS
1	SUPPLY OF FOLLOWING INSTRUMENT MAINTENANCE TOOLS:					
a)	BENCH VICE, SIZE 4", MAKE CRAFTSMAN OR EQUIVALENT	2	NOS.			
b)	BENCH VICE, SIZE 6", MAKE CRAFTSMAN OR EQUIVALENT	2	NOS.			
c)	PIPE VISE , SIZE 4", ORIGIN EUROPEAN OR EQUIVALENT	2	NOS.			
d)	HEAVY DUTY SEPARATE HYDRAULLIC CABLE LUG PUNCHING TOOL KIT. LUG SIZE: 16 SQ. MM TO 630 SQ. MM	2	NOS.			
e)	GASKET CUTTING MACHINE	1	NOS.			
f)	DRILL MACHINE, VOLTAGE 220VAC, FREQUENCY 50 HZ, VARIABLE SPEED, ROTATION IN BOTH CLOCKWISE & ANTICLOCKWISE DIRECTION, POWER RATING 1000W, WITH HAMMERING & DRILLING CAPABILITY AEG OR EQUIVALENT	3	NOS.			
<b>TOTAL</b>						

**NOTE:**

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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF TELEMTRY WORKSHOP EQUIPMENT (GROUP - H: TELEMTRY TESTING TOOLS)



Rev.	Date	Description	Prepared By	Checked By	Approved By
1	13-02-2018	Re-issued for Tender	AK	SMHA	MAS
0	16-11-2017	Issued for Tender	AK	SMHA	MAS

**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF TELEMETRY WORKSHOP EQUIPMENT**

<b>TELEMETRY TESTING TOOLS (GROUP - H)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1	SUPPLY OF FOLLOWING TELEMETRY TESTING TOOLS:					
a)	PORTABLE, EXPLOSION-PROOF IR TEST LAMP P/N TL-2055, TEMPERATURE RANGE: -30° TO +85° C, WITH ONE SPARE RECHARGEABLE BATTERY P/N PSU-15 100 – 240 VAC, MAKE: HONEYWELL OR EQUIVALENT	1	NOS.			
b)	DIGITAL TEST GUAGE (MASTER GAUGE), RANGE 5000 PSI ALL ACCESSORIES QUICK FITTINGS (MNPT 1/4" OR EQUIVALENT) MAKE: CRYSTAL ENGG.	1	NOS.			
c)	PNEUMATIC HIGH PRESSURE TEST PUMP, MAKE: AMETEK, MODEL: AMETEK JOFRA 65-P014, PRESSURE RANGE: 0 TO 10,000 PSI / 700 BAR TEST MEDIA: OIL WETTED PARTS: ALUMINUM, BRASS, STAINLESS STEEL CONNECTIONS TO TEST OBJECTS: 4 X 1/4" NPT FEMALE	1	NOS.			
d)	HAND TORCH, EXPLOSION PROOF, IP 64, POWER LED, RECHARGEABLE BATTERY WITH ITS CHARGER, CHARGING VOLTAGE 220VAC, 50HZ, OR EQUIVALENT	2	NOS.			
e)	ELECTRONIC TOOL KIT WITH TOOLS (DELUXE ELECTRONICS TOOL KIT - TK-3000)	1	NOS.			
f)	GLASS THERMOMETER SETS, ASTM CERTIFIED WITH CALIBRATION CERTIFICATE, MAKE THERMCO OR EQUIVALENT RANGE 0-650F, MODEL/CATALOG NUMBER ACC6270F4FC	2	SET			
g)	PNEUMATIC PRESSURE CALIBRATOR, SERIES 65-120, RANGE -100 TO 850" WC, DUAL SCALE PSI & INCH WC, WITH FITTING ACCESSORY (FLEXIBLE TUBE & TUBE FITTING), MAKE WALLACE TIERNAN OR EQUIVALENT (WITH CARRING CASE AND ACCESSORIES)	2	NOS.			
h)	THERMOCOUPLE CALIBRATOR FOR K & J TYPE, MAKE FLUKE OR EQUIVALENT	1	NOS.			
i)	MASTER DIGITAL GUAGE, RANGE 500 PSI WITH ALL ACCESSORIES QUICK FITTINGS(1/4" MNPT) CRYSTAL ENGG. OR EQUIVALENT	1	NOS.			
j)	MASTER DIGITAL GUAGE, RANGE 1500 PSI WITH ALL ACCESSORIES QUICK FITTINGS(1/4" MNPT) CRYSTAL ENGG. OR EQUIVALENT	1	NOS.			

**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF TELEMETRY WORKSHOP EQUIPMENT**

<b>TELEMETRY TESTING TOOLS (GROUP - H)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
k)	FIELD COMMUNICATOR 475, INTRINSICALLY SAFE, LATEST MODEL 475 F P 1 E KL U GMT S MAKE: EMERSON	1	NOS.			
l)	DIGITAL THERMOMETER METER (WITH PROBES) FOR K AND J TYPE THERMOCOUPLE MAKE FLUKE OR OR EQUAVALANT.	2	NOS.			
m)	MA SOURCE MAKE/MODEL: FLUKE/725 OR EQUIVALENT WITH DP MODULE FLUKE-700P00 TO MEASURE DP 0 TO 1 IN H2O& PRESSURE MODULE FLUKE- 700P27 TO MEASURE , MEASURE/SOURCE PRESSURE, SOURCE/SIMULATE VOLTS, MA, THERMOCOUPLES, RTDS, FREQUENCY, AND OHMS TO CALIBRATE TRANSMITTERS.	1	SET			
n)	FLUKE 700 PTPK HYDRAULIC TEST PRESSURE KIT.	1	NOS.			
o)	USB TO RS-232 CONVERTER MAKE MOXA EQUIVALENT	1	NOS.			
p)	RS-232 TO 485 CONVERTER MAKE: MOXA OR EQUIVALENT	1	NOS.			
q)	FLUKE PRESSURE MODULES 0-100PSI, 0-500PSI, 0-1500 PSI	1 each	NOS.			
r)	FREQUENCY / LOOP CALIBRATOR (DPI 841/842), MAKE DRUCK OR EQUIVALENT, CPM, CPH AND TOTALIZING COUNTER, MA MEASURE, SWITCH TEST AND 24V LOOP POWER, SINE, SQUARE AND TRIANGULAR WAVEFORMS	1	NOS.			
<b>TOTAL</b>						

**NOTE:**

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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT (GROUP - I: LIFTING EQUIPMENT FOR MECHANICAL WORKSHOP)



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<b>Rev.</b>	<b>Date</b>	<b>Description</b>	<b>Prepared By</b>	<b>Checked By</b>	<b>Approved By</b>

**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT**

<b>LIFTING EQUIPMENT FOR MECHANICAL WORKSHOP (GROUP - I)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1)	SUPPLY, INSTALLATION & TESTING OF THE FOLLOWING LIFTING EQUIPMENT FOR MECHANICAL WORKSHOP:					
a)	MOBILE OVERHEAD CRANE WITH HOIST ARRANGEMENT & SITE INSTALLATION (LIFTING CAPACITY: 15 TONS)	1	NOS.			
<b>TOTAL</b>						

**NOTE:**

- 1) THE ABOVE PRICE SHALL BE INCLUSIVE OF ALL TAXES, EXCEPT GST.
- 2) GENERAL SALES TAX MUST BE QUOTED SEPARATELY.
- 3) SPECIFICATIONS & DATASHEETS OF ABOVE MENTIONED EQUIPMENT ARE ATTACHED IN VOLUME-II OF THE TENDER DOCUMENT. BIDDER IS REQUESTED TO SUPPLY / INSTALL THE ABOVE IN ACCORDANCE WITH THE SAID DATASHEETS / SPECIFICATIONS.





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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT (GROUP - J: AIR COMPRESSOR)



0	13-02-2018	Issued for Tender	AK	SMHA	MAS
<b>Rev.</b>	<b>Date</b>	<b>Description</b>	<b>Prepared By</b>	<b>Checked By</b>	<b>Approved By</b>

**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT**

<b>AIR COMPRESSOR (GROUP - J)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1)	SUPPLY & TESTING OF THE FOLLOWING MECHANICAL MAINTENANCE MACHINES:					
a)	ENGINE DRIVEN AIR COMPRESSOR	1	NO.			
<b>TOTAL</b>						

**NOTE:**

- 1) THE ABOVE PRICE SHALL BE INCLUSIVE OF ALL TAXES, EXCEPT GST.
- 2) GENERAL SALES TAX MUST BE QUOTED SEPARATELY.
- 3) SPECIFICATIONS & DATASHEETS OF ABOVE MENTIONED EQUIPMENT ARE ATTACHED IN VOLUME-II OF THE TENDER DOCUMENT. BIDDER IS REQUESTED TO SUPPLY / INSTALL THE ABOVE IN ACCORDANCE WITH THE SAID DATASHEETS / SPECIFICATIONS.



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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT (GROUP - K: PUMPS)



0	13-02-2018	Issued for Tender	AK	SMHA	MAS
<b>Rev.</b>	<b>Date</b>	<b>Description</b>	<b>Prepared By</b>	<b>Checked By</b>	<b>Approved By</b>

**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT**

<b>PUMPS (GROUP - K)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1)	SUPPLY & TESTING OF THE FOLLOWING MECHANICAL MAINTENANCE MACHINES:					
a)	PORTABLE PUMP	1	NO.			
b)	PNEUMATIC HIGH PRESSURE TEST PUMP, RANGE -14 TO 3000PSI, NPT 1/4", ADJUSTMENT RESOLUTION UP TO 0.1 MBAR. MAKE: ADDITEL, MODEL: 920, OR EQUIVALENT	1	NO.			
<b>TOTAL</b>						

**NOTE:**

- 1) THE ABOVE PRICE SHALL BE INCLUSIVE OF ALL TAXES, EXCEPT GST.
- 2) GENERAL SALES TAX MUST BE QUOTED SEPARATELY.
- 3) SPECIFICATIONS & DATASHEETS OF ABOVE MENTIONED EQUIPMENT (1.a) ARE ATTACHED IN VOLUME-II OF THE TENDER DOCUMENT. BIDDER IS REQUESTED TO SUPPLY / INSTALL THE ABOVE IN ACCORDANCE WITH THE SAID DATASHEETS / SPECIFICATIONS.



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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF WORKSHOP

### EQUIPMENT

### (GROUP - L: COMBINATION PRESSURE TEST BENCH)



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<b>Rev.</b>	<b>Date</b>	<b>Description</b>	<b>Prepared By</b>	<b>Checked By</b>	<b>Approved By</b>

**OIL & GAS DEVELOPMENT COMPANY LTD.**  
**BOQ/BID PRICE SCHEDULE FOR SUPPLY OF WORKSHOP EQUIPMENT**

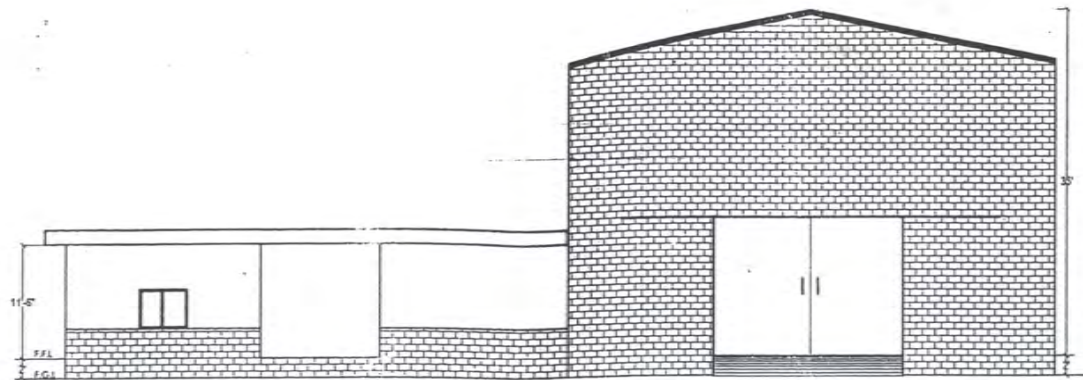
<b>COMBINATION PRESSURE TEST BENCH (GROUP - L)</b>						
ITEM	MATERIAL DESIGNATION	QTY.	UNIT	UNIT PRICE IN PKR (FOR BASIS)	TOTAL PRICE IN PKR (FOR BASIS)	REMARKS
1	SUPPLY OF VLAVE TEST EQUIPMENT					
a)	COMBINATION PRESSURE TEST BENCH FOR TESTING OF PSVS & CONTROL VALVES FROM 1" TO 20" (PRESSURE RANGE: 0-3000 PSI, WITH FITTING ARRANGEMENT TO SUITE RTJ & RF FLANGE CONNECTIONS), WITH AIR (BOOSTER) AND STORAGE SYSTEM MAKE: VENTIL/UNIGRIND OR EQUIVALENT	1	NOS.			
<b>TOTAL</b>						

**NOTE:**

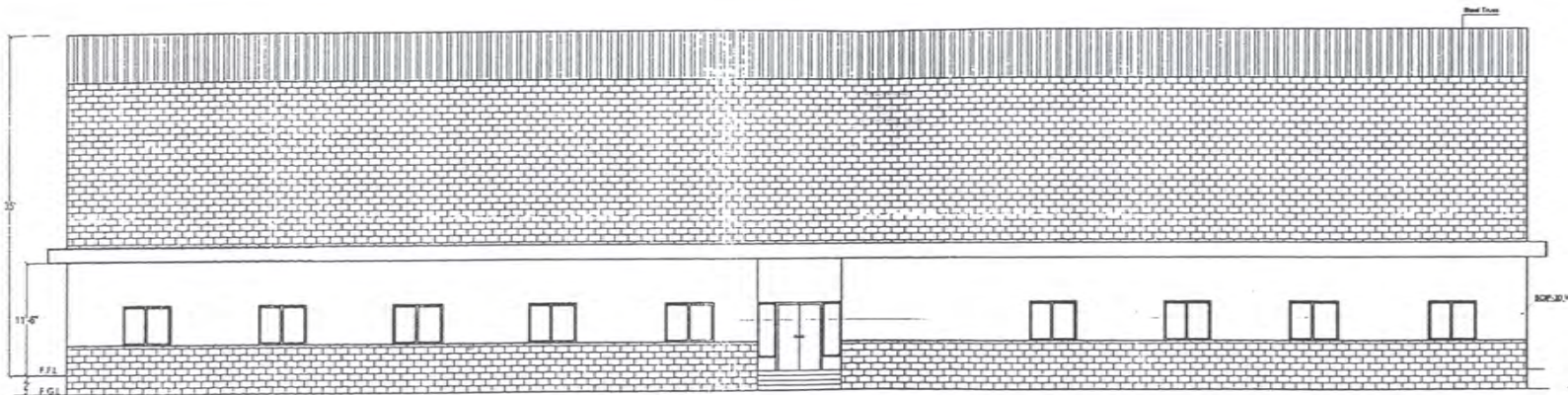
- 1) THE ABOVE PRICE SHALL BE INCLUSIVE OF ALL TAXES, EXCEPT GST.
- 2) GENERAL SALES TAX MUST BE QUOTED SEPARATELY.

**ANNEXURE – IV**

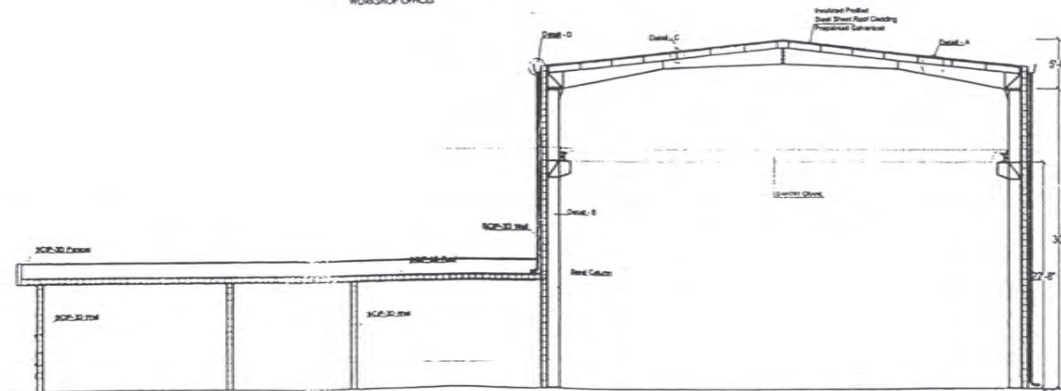
**VENDOR DRAWINGS FOR MECHANICAL WORKSHOP  
& MAINTENANCE BUILDING**



RIGHT SIDE ELEVATION  
MAINTENANCE BUILDING &  
WORKSHOP OFFICES



FRONT ELEVATION  
MAINTENANCE BUILDING &  
WORKSHOP OFFICES



SECTION A-A  
MAINTENANCE BUILDING &  
WORKSHOP OFFICES

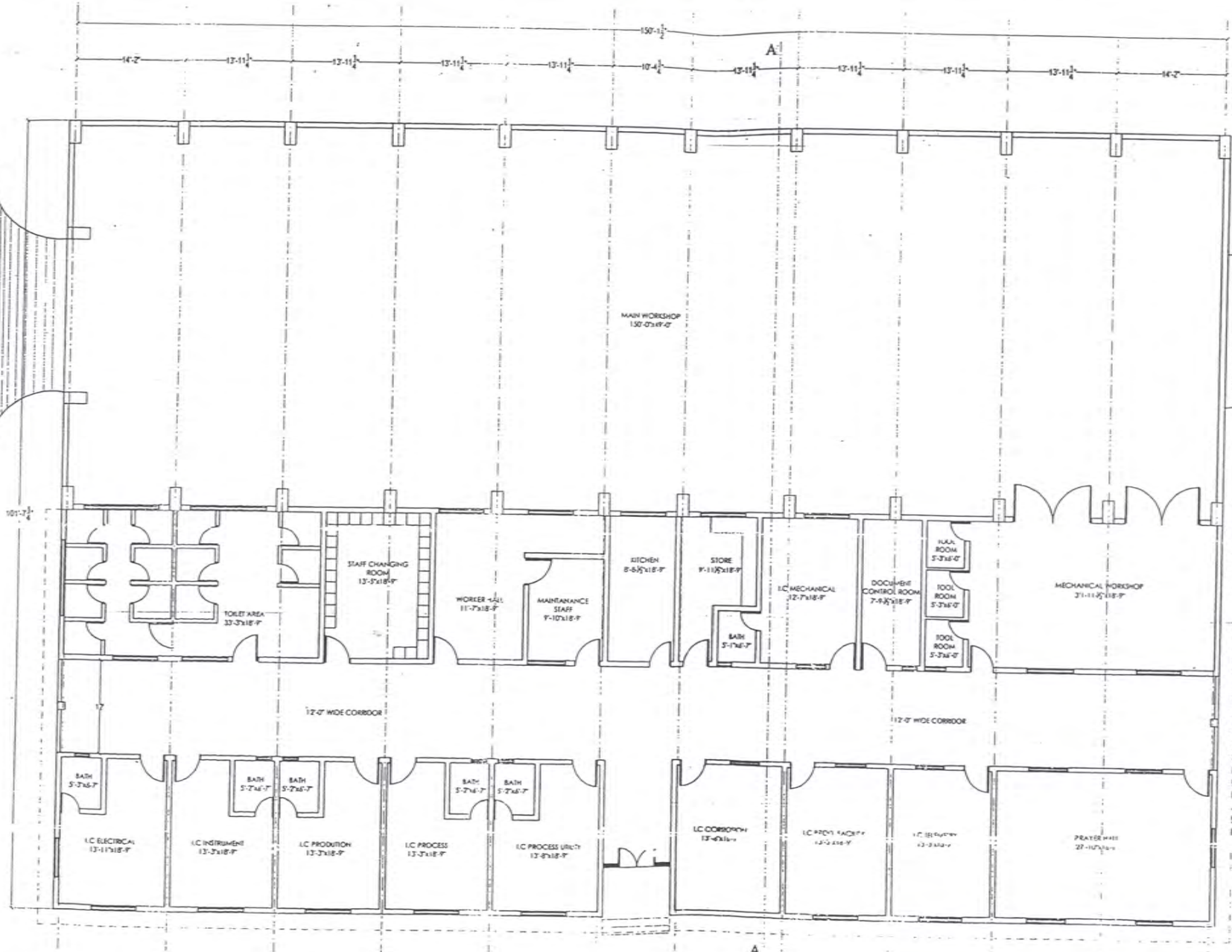


Project:	Proposed PREFABRICATED KPO-TAX INTEGRATED DEVELOPMENT PROJECT PHASE-2
Client:	OGGIL KERRER
Title:	ELEVATIONS & SECTIONS MAINTENANCE BUILDING & 1 <sup>ST</sup> WORKSHOP OFFICES
Drawing status:	Preliminary Design
<b>FAST FOLD</b> Pre-Engineered Buildings	
<b>Norwest</b> Group (Pvt) Limited Office: 275, 286, 3rd Floor Royal Suite, E-1177 Markham, 16th Avenue P.O. Box 111, 111-1111 Markham, 16th Avenue Fax: 905-305-1111 Email: info@norwestgroup.com Website: www.norwestgroup.com	
Drawn by:	Fah Rauf
Checked by:	Eng. Naveed Sultan
Job no:	option: 1
Scale:	NTS
Date:	21-08-2014
Drng no:	01



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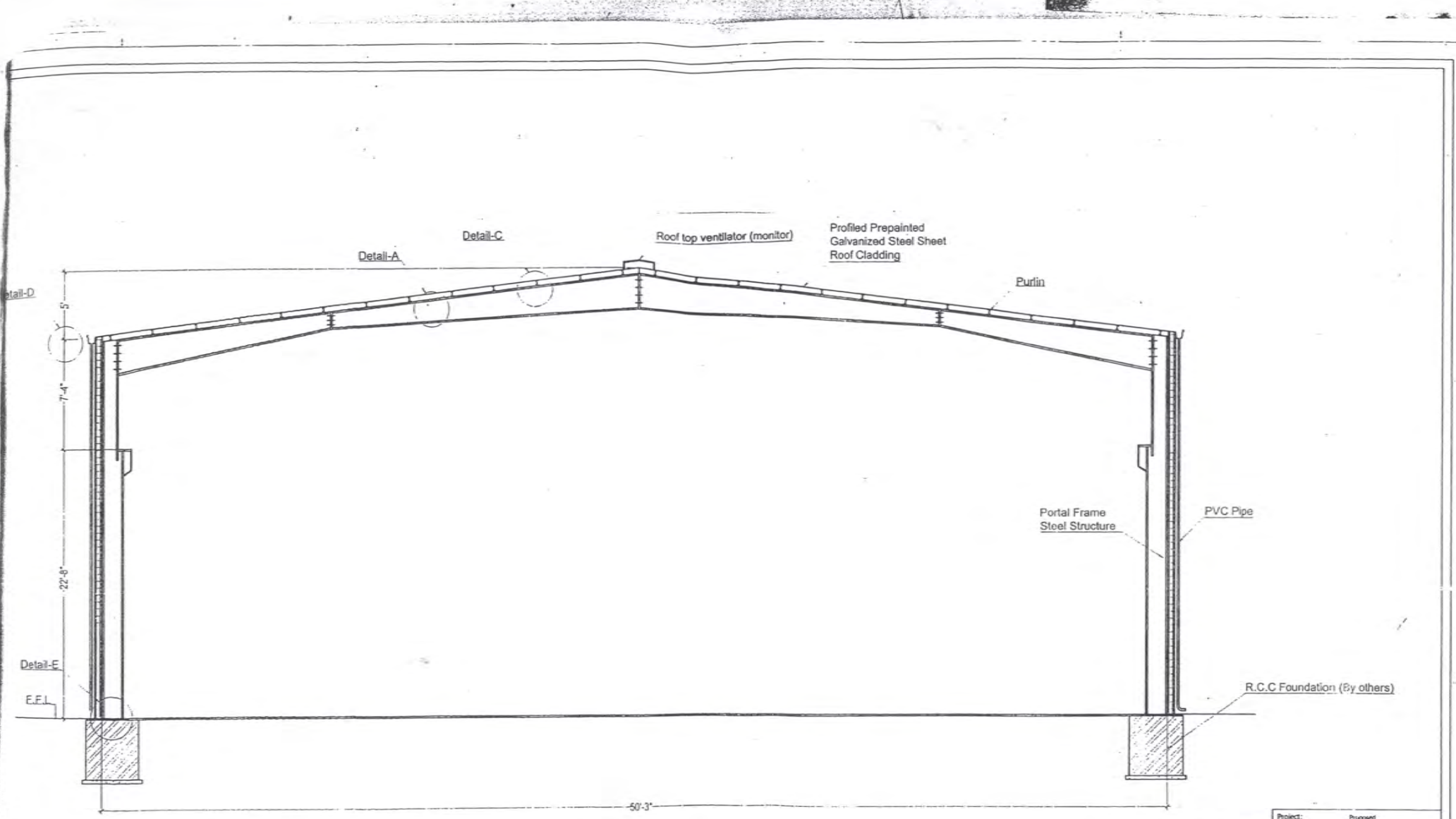


Project:	Proposed	Scale:	NTS
	REFABRICATED KP-D-TAX INTEGRATED DEVELOPMENT PROJECT PHASE-2	Checked by:	Eng. Hamed S. Elwan
Client:	OPDC RUNNER	Date:	21-04-2014
Title:	MAINTENANCE BUILDING & WORKSHOP OFFICES	Job no:	
Drawing status:	Preliminary Design	Options:	
<b>FAST FOLD</b> Pre-Engineered Buildings			
<b>Norwest</b> Group (Pvt) Limited Office: 205, 206, 2nd Floor Royal Suites, 6-11/2 Market, Islamabad Ph: 92-51-2304893, 92-51-2304892 Fax: 92-51-2304893 Email: info@norwestgroup.com Website: www.norwestgroup.com			
Drawn by:	Fazal Raza	Scale:	NTS
Checked by:	Eng. Hamed S. Elwan	Date:	21-04-2014
Job no:		Options:	

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MAINTENANCE BUILDING & WORKSHOP OFFICES  
 COMBINED PLAN  
 TOTAL COVERED AREA = 15403.00 Sq.ft





Section B-B



Project:	Proposed PREFABRICATED KPO-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II
Client:	OGDCL RUNNER
Title:	SECTION-B MAINTENANCE BUILDING
Drawing status:	Preliminary Design
<b>FAST FOLD</b> Pre-Engineered Buildings	
<b>Norwest</b> Group (Pvt) Limited Office: 201, 20th, 2nd Floor Royal Sukari, E-11/7 Markaz, Islamabad Ph: 92-51-2304911, 92-51-2304912 Fax: 92-51-2304913 Email: info@norwestgroup.com Website: www.norwestgroup.com	
Drawn by:	Fauziah
Checked by:	Eng. Muhammad S. Khan
Scale:	NTS
Date:	21-08-2014

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## OIL & GAS DEVELOPMENT COMPANY LTD.

### TENDER ENQUIRY NO. PROC-FC/CB/PROJ/KPD-3136/2017

#### (SECTION – V)

#### FORM & CONDITIONS OF CONTRACT

#### FOR

#### SUPPLY OF MECHANICAL, ELECTRICAL,

#### INSTRUMENTATION AND TELEMETRY WORKSHOP

#### EQUIPMENT



1	23-02-2018	Issued for Tender	HH	SP	MAS
<b>Rev.</b>	<b>Date</b>	<b>Description</b>	<b>Prepared By</b>	<b>Checked By</b>	<b>Approved By</b>

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<b><u>S. NO.</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>PAGE NO.</u></b>
1.0	FORM OF CONTRACT	03
2.0	CONDITIONS OF CONTRACT	06

**APPENDIX:**

APPENDIX – I : BID PRICE SCHEDULE FOR GROUP-A/B/C/D/E/F/G/H/I

**ATTACHMENT:**

ATTACHMENT – I : TERMS AND CONDITIONS OF THE INLAND L/C FOR GROUP-A/B/C/D/E/F/G/H/I/J/K/L

## **FORM OF CONTRACT**

This Contract (hereinafter referred to as “Contract”) is made this \_\_\_\_ day of \_\_\_\_\_ 2018 between Oil & Gas Development Company Limited having its Head Office situated at OGDCL House, Jinnah Avenue, Islamabad (hereinafter referred to as “OGDCL”, which expression where the context admits shall include and mean its successors in interest and assigns) of the one Part and M/s. \_\_\_\_\_ having its registered office at \_\_\_\_\_ (hereinafter referred to as “Supplier” which expression whereas the context admits shall include and mean its successors and assigns) of the other part.

WHEREAS OGDCL invited Bids for Supply of Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment.

AND WHEREAS the Supplier after reviewing the available scope and specification, and understanding the complete details and requirements of the Supply of Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment as mentioned in OGDCL’s Tender Document No. \_\_\_\_\_ dated \_\_\_\_\_ 2018, submitted the Bid No. \_\_\_\_\_ dated \_\_\_\_\_ 2018 and has agreed to supply of Supply of Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment as per terms, conditions and specifications mentioned hereinafter.

WHEREAS the bidder represents and warrants to OGDCL that it is fully qualified, experienced and professionally competent and possess the necessary skills and resources and is able and willing to supply the required Supply of Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment mentioned earlier, strictly so as to achieve the objective of the Contract.

WHEREAS OGDCL through letter no. \_\_\_\_\_ dated \_\_\_\_\_ communicated its intention to award the Contract for supply of Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment required to be installed at one of its facility.

NOW THEREFORE IN CONSIDERATION OF THE ABOVE PREMISES AND THE MUTUAL COVENANTS HEREINAFTER STIPULATED THE PARTIES AGREE AS FOLLOWS:

### **1.0 CONTRACT & ITS OBJECT**

In this Contract words and expressions shall have the same meanings as are respectively assigned to them in the conditions of the Contract hereinafter referenced.

The following documents (hereinafter called “the Contract Documents”) comprise the entire Contract between the parties and supersede and replace any prior correspondence, agreement or understanding between the parties:

- |   |   |              |
|---|---|--------------|
| a) This Contract  |   |              |
| b) Conditions of Contract   | : | Appendix – A |
| c) Tender Document (Including Scope & Specification)  | : | Appendix – B |
| d) Bid Price Schedule for Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L                       | : | Appendix – C |
| e) Delivery Schedule for Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L                        | : | Appendix – D |
| f) Notification of Intention to Award   | : | Appendix – E |
| g) Bidder's Bid Proposal (Technical & Financial)  | : | Appendix – F |
| h) OGDCL & Bidders Correspondence   | : | Appendix – G |
| i) Performance Bond (Bank Guarantee) Format for Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L | : | Appendix –H  |

Notwithstanding anything contained in the documents:

- To the extent of any conflict between this Contract and Contract documents including Annexures, Appendices and Addendums, the Contract shall prevail.
- To the extent of any conflict between Specifications in the Tender Document and specification/drawings issued for construction, the later shall prevail.
- To the extent of any conflict between the Conditions of Contract and Technical Specifications, the later shall prevail; similarly drawings/data sheets shall have precedence over technical specifications.

The object of the Contract is the performance of design, Supply of Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment as mentioned earlier by the Supplier within agreed time frame for Completion, in strict accordance with all the requirements of the Contract and the Supplier acknowledges, agrees and undertakes that the performance of its obligations under the Contract would result in achievement of the object of the Contract.

This Contract shall become effective upon the date after formal execution of the Contract by the duly authorized representatives of OGDCL and Supplier provided that all of the following conditions have been fulfilled:

- a) The submission of the Performance Bond (Bank Guarantee) for Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L by the Supplier to OGDCL.

After conditions specified above have been fulfilled and OGDCL gives written advice to Supplier to proceed ahead with the Supply of Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment the Supplier shall diligently commence execution of the Contract forthwith and shall proceed with the same with due expedition and without delay in accordance with the terms of this Contract.

The Supplier and OGDCL agrees that this Contract, including all the documents incorporated by reference earlier express all of the covenants and agreements of the parties and that this Contract integrates, combines and supersedes all earlier negotiations and “Understanding” whether written or verbal. It is also understood that no modification or alteration of this Contract shall be valid or binding on either party, unless agreed in writing by both the parties.

In WITNESS whereof the parties hereto have caused their respective Common Seals to be hereunto affixed (or have hereunto set their respective hands and seals) the day and year first above written.

**SIGNED, SEALED AND DELIVERED**

By the said (Signature & Stamp)  
\_\_\_\_\_

By the said (Signature & Stamp)  
\_\_\_\_\_

Name: \_\_\_\_\_

Name: \_\_\_\_\_

For and on behalf of the Oil & Gas Development Company Limited (OGDCL) in the presence of:

For and on behalf of the Supplier in the presence of:

\_\_\_\_\_  
Name: \_\_\_\_\_

\_\_\_\_\_  
Name: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

## **CONDITIONS OF CONTRACT**

### **1.0 GENERAL**

These Conditions of Contract, together with the other parts of the Contract Documents shall apply to the Contract entered for Supply of Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment. This Contract shall be drawn between Oil and Gas Development Company Limited (OGDCL) and the successful Bidder for the facility. These “Conditions” of the Contract shall supersede any conditions made by the Supplier, in his proposal unless such conditions have been specifically included in the Contract.

### **2.0 DEFINITION**

In the Contract the following words and expressions shall have the meanings hereby assigned to them except where the context otherwise requires:

- a) “Tender Documents” means the document no: \_\_\_\_\_ issued by OGDCL for inviting Bids, which constitute the basis for bid proposals and the Contract.
- b) The “Contract“ means the agreement entered into between OGDCL and the Supplier as recorded in the Contract Documents including all attachments and appendices thereto and all documents incorporated by reference therein
- c) “Contract Documents” means the documents forming the contract and shall include:
  - This Contract
  - Conditions of Contract : Appendix – A
  - Tender Document (Including Scope & Specification) : Appendix – B
  - Bid Price Schedule for Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L : Appendix – C
  - Delivery Schedule for Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L : Appendix – D
  - Notification of Intention to Award : Appendix – E
  - Bidder’s Bid Proposal (Technical & Financial) : Appendix – F
  - OGDCL & Bidders Correspondence : Appendix – G
  - Performance Bond (Bank Guarantee) Format for Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L : Appendix –H



- d) The “Consultant” referred to herein means Zishan Engineers Private Limited (ZEL) appointed by OGDCL for providing design engineering.
- e) “The Contract Price “means the price payable to the Supplier under the Contract for the full and proper performance of his contractual obligations.
- f) “Goods” means all equipment, machinery, and/or materials which the Supplier is required to supply to the OGDCL under this contract.
- g) “Supplier” means the person or party who shall design, manufacture and supply of Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment.
- h) “OGDCL/Owner/Company” means OIL & GAS DEVELOPMENT COMPANY LIMITED procuring the “goods” and “materials”.
- i) “Person” means firm, company, corporation or consortium.
- j) “Project/Facility” Gas processing facility.
- k) “Specification” or “Specified” shall mean the requirements of the documents.
- l) “Vendors” means any person or company having direct Contract with Manufacturer for supply of required components and other equipment or material required for the work under the contract.
- m) “Warranties” means all the warranties to be furnished or cause to be furnished by the Supplier in favor of OGDCL under the contract.

### 3.0 **SINGULAR AND PLURAL**

Words imparting the singular only also include the plural and vice versa where the context requires

### 4.0 **COMPLIANCE WITH BIDDING DOCUMENTS**

The supply of Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment shall be completed in all respects and in strict accordance with the Contract Documents.

## 5.0 **INTERPRETATION**

- 5.1 Decision by the OGDCL's Consultant shall be conclusive as to the true intent and meaning of Consultant's drawings and technical specifications. Any discrepancy which may exist between drawings and the technical specifications shall be referred to the Consultant, whose decision as to the true meaning shall be final and binding for the Manufacturer.
- 5.2 The Manufacturer shall study and review the drawings, technical specifications and other information given to him by OGDCL/Consultant. During this review, if it comes across any discrepancies, inconsistencies the same shall be reported in writing to the OGDCL.
- 5.3 All drawings and technical specifications, being instruments of services, are the property of OGDCL and shall be returned when the Work is completed.
- 5.4 Verbal instructions or information received from the OGDCL's office will not be recognized by him unless confirmed in writing.
- 5.5 The drawings and technical specifications are intended to be complementary to each other so that any items set-forth in either shall be recognized as if duly set-forth in both.

## 6.0 **ASSIGNMENT**

The Supplier shall not assign the Contract or any part thereof, or any benefit or interest therein or there under without the prior written consent of OGDCL.

## 7.0 **SCOPE OF SUPPLY, SPECIFICATIONS & BOQ**

The Scope of Supply, Specifications & BOQ of Mechanical, Electrical and Instrumentation and Telemetry Workshop Equipment detailed in enclosed **Appendix-B**.

## 8.0 **DELIVERY AND ITS DOCUMENTS**

- 8.1 The Supplier shall supply (deliver) complete Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment as per Scope of Supply given in clause 10.0 and other relevant provisions of the Conditions of Contract in \_\_\_\_\_ months at site from the date of establishment of Inland Letter of Credit (L/C). Deliveries must be made as indicated in the material/equipment list. The Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment shall remain at the risk of the Supplier until delivery has been completed.

- 8.2 Supply (Delivery) of Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment shall be made when it arrives at Site and all documentation specified in 12.3 has been submitted to OGDCL.
- 8.3 The Supplier shall send to OGDCL by courier, the following six (06) copies of documents:
- Original Supplier's invoice showing equipment/material description, quantity unit price and total price strictly in line with the Contract and verified by OGDCL
  - Clean Truck Receipt/Carrier Receipt showing freight paid & indicating Contract / Inland LC details.
  - Copy of applicable GST Invoice
  - Annexure-C
  - Copy of NTN certificate
  - Duly Signed Stamped Delivery Note
  - Packing list
  - Certificate and list of measurements and weight gross/net.
  - Mill Inspection/Quality Certificates.
  - Warranty Certificate
  - Third Party Inspection Certificate from any of the following (if required)
    - Lloyds
    - SGS
    - TUV Austria Bureau
    - Velosi
  - Certificate of origin
  - Certificate issued by OGDCL that ordered equipment/material has been received at delivery location (i.e. Project Site) and inspected and accepted.

**Note:** No payment will be processed in the absence of above mentioned documents. Supplier are advised to submit complete documents mentioned above to avoid delay in processing of the payment.

## 9.0 **SUPPLIER'S OBLIGATIONS**

### 9.1 **General Obligations**

The Supplier shall supply all the required equipment in accordance with the Contract, and shall remedy any defects in any of Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment. When completed, the Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment shall be fit for the purposes for which it is intended as defined in the Contract.

The Supplier shall provide the documents specified in the Contract, and all machinery, testing & equipment, Manufacturer's personnel, goods, consumables and other things and services, required in and for completion of its obligations & responsibilities.

The obligations/responsibilities under the Contract shall include any work, which is necessary to satisfy OGDCL's requirements, or is implied by the Contract, and all works, which (although not mentioned in the Contract) are necessary for the completion, or safe and proper operation, of the Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment covered in the Contract.

The Supplier shall, whenever required by OGDCL, submit details of the arrangements and method, which the Supplier proposed to adopt for supply of Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment. No significant alteration to these arrangements and methods shall be made without this having previously intimated and approved by OGDCL.

### 9.2 **Supplier's Representative**

The Supplier shall appoint the Supplier's Representative and shall give him all authority necessary to act on the Supplier's behalf under the Contract.

The Supplier shall obtain OGDCL consent of Supplier's representative, if not named in the contract. For obtaining the consent, the particulars of the persons, his qualification experience, is required to be submitted.

The Supplier shall not, without the prior consent of OGDCL, revoke the appointment of the Manufacturer/Packager's Representative or appoint a replacement.

The Supplier's Representative may delegate any powers, functions and authority to any competent person and may at any time revoke the delegation. Any delegation or revocation shall not take effect until OGDCL has received prior notice signed by the Supplier's Representative, naming the person and specifying the powers, functions and authority being delegated or revoked.

## 10.0 **DELIVERY PERIOD**

The timely delivery of the Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment by the Supplier shall be the essence of the Contract, as OGDCL has to meet its obligations for completion of the facility. Accordingly, the Manufacturer is required to complete the delivery of Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I on FOR basis in \_\_\_\_ months from the date of establishment of Inland letter of credit.

Delivery of the goods shall be made by the Supplier in accordance with the terms specified in this Conditions of Contract and Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment shall remain at the risk of the Supplier until delivery has been completed.

Delivery shall be deemed to have been made when a Clean Truck Receipt/Carrier Receipt together with all such documentation as shall be specified in the Conditions of Contract have been submitted to the OGDCL.

## 11.0 **CONTRACT PRICE AND PAYMENT MECHANISM / TERMS**

### 11.1 **Contract Price**

In consideration of the due performance of the obligations of the Supplier under the Contract, OGDCL shall pay the Supplier an amount of \_\_\_\_\_ for Supply of Mechanical, Electrical, Instrumentation and Telemetry Workshop Equipment (**Appendix-C**) as per Scope of Supply & Specifications given in clause 10.0 above.

The Contract covers the total payment for Supplier's obligations under the Contract. This price shall be firm price and not subject to any escalation or alteration regardless of any circumstances whatsoever even unforeseeable at present.

## 11.2 Payment Mechanism / Terms

The payment for Supply of following Groups of Mechanical Workshop Equipment, Electrical Workshop Equipment, Instrumentation Workshop Equipment, and Telemetry Workshop Equipment shall be made through an Inland Letter of Credit (L/C) to be established through a scheduled bank or international bank operating in Pakistan. LC shall be valid for six months to facilitate payment after delivery.

- Group - A:** Mechanical Maintenance Machines
- Group - B:** Welding / Cutting Machines for Mechanical Workshop
- Group - C:** Maintenance Tools for Mechanical Workshop
- Group - D:** Mechanical Inspection Tools
- Group - E:** Electrical Inspection Tools
- Group - F:** Instrument Testing Tools
- Group - G:** Electrical / Instrument / Telemetry Maintenance Tools
- Group - H:** Telemetry Testing Tools
- Group - I:** Lifting Equipment for Mechanical Workshop
- Group - J:** Air Compressor
- Group - K:** Pumps
- Group - L:** Combination Pressure Test Bench

The terms and conditions of Inland Letter of Credit (L/C) are given in Attachment-I/ (Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I). The payment under inland L/C will be made in the following manner:

- Hundred (100%) payment of the Contract Price shall be paid through Inland Letter of Credit (L/C) upon shipment, inspection, receipt & acceptance of all ordered of Groups (**Group-A, Group-B, Group-C, Group-D, Group-E, Group-F, Group-G, Group-H, Group-I, Group-J, Group-K & Group-L**) **Workshop Equipment.**

The payment under the L/C shall be effected upon submission of following documents upon each shipment of equipment:

- Original Supplier's invoice showing equipment/material description, quantity unit price and total price strictly in line with the Contract and verified by OGDCL and accompanied by a certificate issued by OGDCL that ordered equipment has been received at delivery location and inspected & accepted.
- Clean Truck Receipt/Carrier Receipt showing freight paid & indicating Contract / Inland LC details.
- Copy of applicable GST Invoice
- Annexure-C
- Copy of NTN certificate
- Duly Signed Stamped Delivery Note
- Packing list
- Certificate and list of measurements and weight gross/net.
- Mill Inspection/Quality Certificates.
- Warranty Certificate
- Third Party Inspection Certificate from any of the following (if required)
  - Lloyds
  - SGS
  - TUV Austria Bureau
  - Velosi
- Certificate of origin

## 12.0 **WARRANTY**

- 12.1 The supplier shall warrant that all goods supplied under Contract shall be according to specifications given in Contract and approved drawings/ design etc. Any deviation in material, drawing/design (where applicable) will be replaced by the supplier at his cost.
- 12.2 The OGDCL shall promptly notify the supplier in writing, of any claims arising under this warranty.
- 12.3 The supplier will invariably provide warranty/guarantee of spare and consumables.

**13.0 PERFORMANCE BOND / BANK GUARANTEE**

- 13.1 Within ten (10) days of the receipt of notification of intent to award the Contract from OGDCL, the Supplier shall furnish a Performance Bond in the Form of Bank Guarantee/Pay Order for an amount of ten percent (10%) of the Contract Price as a guarantee for the due and faithful performance of the Contract. The said Performance Bond shall be valid up to twelve (12) months from the date of receipt of complete material at site. Performance Bond from NIB, Royal Bank of Scotland and Summit Bank is not acceptable to OGDCL
- 13.2 The said Guarantee and the terms of the said security shall be in accordance with format given in **Appendix-H** of the Contract. The procurement of such Guarantee and the cost of the security to be so entered into shall be at the expense of the Manufacturer.
- 13.3 The proceeds of the Performance Bond (Bank) Guarantee shall be payable to OGDCL as compensation for any loss resulting from the Supplier's failure to fulfill its obligations under the Contract (including guarantee/warranty).
- 13.4 The Performance Bond (Bank) Guarantee shall be released to the Supplier after twelve (12) months from the date of delivery of Mechanical, Electrical Instrumentation and Telemetry Workshop Equipment, provided that the Supplier has performed and fulfilled guarantee/warranty obligations in pursuance of the Conditions of Contract. If Supplier is unable to meet its obligations the Performance Bond will be extended or encashed as per OGDCL's discretion.
- 13.5 The period of validity of the Bank Guarantee shall be extended if the completion of the Contract is delayed, whether in whole or in part. The cost incurred for establishing this Bank Guarantee shall be to the account of the Supplier.
- 13.6 The Bank Guarantee shall be denominated in the currency of the Contract or in another freely convertible currency acceptable to OGDCL and shall be in the form provided in the Bid Documents as **Appendix-H**. The expenses for the Bank Guarantee shall be borne by the Supplier.



#### 14.0 **LIQUIDATED DAMAGES**

- 14.1 Subject to clause 17 of Tender Document, If the supplier fails to deliver any or all of the goods/services within the time period(s) specified in the Contract, the Purchaser shall, without prejudice to other remedies under the contract, deduct from the contract price / Bank Guarantee as liquidated damages, a sum not more than 0.5% of the contract price per week or part thereof for first four weeks, 1.00% per week for next four weeks and 1.5% per week exceeding four weeks up to maximum extent of 10% of the contract value.
- 14.2 In case the Purchaser is satisfied that the delayed / defective shipment was due to some mistake or circumstances beyond the control of the Supplier and the Supplier has not intentionally or negligently contributed in the delay, the Purchaser may impose Liquidated Damages for not more than a sum equivalent to 0.5% of the delayed or defective shipment per week or part thereof for first two weeks, 1.00 % per week for next three weeks and 1.5% per week exceeding five weeks but not exceeding 10% of the contract value of the delayed/defective shipment provided that the contractor takes immediate remedial measures for the-replacement of defective shipment and takes prompt steps to mitigate the delay. The Purchaser may however, impose Liquidated Damages as per (a) above if the delayed or defective shipment has affected the project completion schedule or has resulted in production losses.
- 14.3 Even after imposition of LDs, if the supplier fails to materialize the delivery (material and or services); the Purchaser reserves the right to cancel contract and to forfeit the Guarantee (if applicable) after intimating the supplier for such cancellation / forfeiture.

#### 15.0 **TERMINATION FOR DEFAULT**

- 15.1 The OGDCL may, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, terminate this Contract in whole or in part provided that:
- a) The Supplier fails to deliver any or all of the goods within the time periods(s) specified in the Contract, or any extension thereof granted by the OGDCL; or
  - b) The Supplier fails to perform any other obligations(s) under the Contract, and provided that the Supplier in either of the above cases doesn't remedy his failure within a period of ten days after receipt of the default notice.

15.2 In the event, the OGDCL terminates the Contract in whole or in part pursuant to Clause 15.1, the OGDCL may procure, upon such terms and in such manner as he deems appropriate, goods similar to those undelivered, and the Supplier shall be liable to any excess cost for such similar goods which may be deducted from his Bank Guarantee.

#### 16.0 **INSPECTIONS AND WITNESS TESTING**

16.1 The OGDCL's representative(s) shall have the right to inspect and/or test the goods to confirm their conformity with respect to specifications mentioned in the Contract. The representative of Supply Chain Management Department will witness the inspection (where so required).

16.2 Should any inspected or tested goods fail to conform to the specifications the purchaser shall reject them and supplier shall replace the rejected goods. All costs incurred on such replacement shall be entirely born by the supplier.

16.3 Rejected material shall be moved / replaced by the supplier within 07 days from the receipt of letter/fax issued by the SCM Department. The supplier shall be liable for the storage charges @ ½% (half percent) of the cost of rejected material on every day basis, if the same is not removed within seven days.

16.4 Acceptance/rejection of the material by 3rd party (where required) will be final and binding on both the parties.

#### 17.0 **FORCE MAJEURE**

17.1 The supplier shall not be liable for penalty for delay in delivery of ordered goods, if, and to the extent delay in delivery or other failure to perform his obligation under the Contract, of being the result of occurrence of Force Majeure i.e. causes such as natural calamities, war, civil disturbance, military action, fire as well as other circumstance proved to the satisfaction of the OGDCL to be beyond the reasonable control of the supplier, which may impede the fulfillment of the obligations under the Contract.

17.2 The supplier shall notify the OGDCL promptly of the occurrence of Force Majeure and submit his case in writing within 07 days of such occurrence.

17.3 If any of the parties is prevented to fulfill his assumed obligations by Force Majeure of constant duration of at least one month, the parties shall meet for negotiation. If no satisfactory agreement is reached within a period of total two months from commencement of the Force Majeure conditions, either party shall have the right to cancel the Contract with immediate effect.

**18.0 AMENDMENTS**

No variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

**19.0 DELAY IN THE SUPPLIER PERFORMANCE**

Delivery of the goods shall be made by the Supplier in accordance with the time schedule specified in the Conditions of Contract.

Any unjustified prolonged delay by the Supplier in the performance of his delivery obligations shall render the Contract liable to any or all of the following sanctions:

- Imposition of liquidated damages;
- Forfeiture of performance security
- And / or termination of the Contract for default.

If in any time during performance of the Contract, the Supplier or his Supplier should encounter conditions impeding timely delivery of the goods, the Supplier shall promptly notify the OGDCL in writing of the facts of the delay, likely duration and causes(s). After receipt of such notice, Supplier's case shall be evaluated for any possible extension in time for performance of the Contract. Any extension granted shall be ratified by the parties by amendment in the Contract.

**20.0 TITLE**

Supplier/seller warrants that the goods, material, equipment shall be delivered free from any and all security interests, liens, encumbrances and claims of any nature.

**21.0 APPLICABLE LAWS**

The Contract shall be interpreted in accordance with the laws applicable in the Islamic Republic of Pakistan.

**22.0 COMPLIANCE WITH LAWS**

Supplier/seller agrees to indemnify the Purchase for any loss, damage or cost suffered by the OGDCL as a consequence of the Supplier/seller's failure, deliberate or otherwise, to comply with any applicable laws, rules, regulations or orders/directives of any public sector entity and/or Government.

## 23.0 **RESOLUTION OF DISPUTES**

If any question, difference or dispute shall arise under this Contact regarding which the parties are unable to agree, such matter may be referred for arbitration. This includes without limitation, the question of whether one or the other is in default and what action, if any, shall be taken to remedy such default. Either party may notify the other in writing specifying the nature of dispute and designating one of the arbitration to whom such dispute shall be referred to requesting that the other party give notice in writing within thirty (30) days after the designation of the second arbitrator. The arbitrators shall within thirty (30) days appoint an umpire whose decision with respect to the dispute shall govern in the event that the arbitrators shall fail to agree. In the event that no second arbitrator is designated within the time specified, the first arbitrator shall have full and complete power to determine the dispute. Arbitration award shall be final and binding on all parties. It is further agreed that such arbitration shall be precedent to any action of law and that the provisions of the Pakistan Arbitration Act 1940, and the rules framed there under shall apply to the arbitration proceedings. The venue of the arbitration proceedings shall be in Pakistan.

The expenses of any arbitration hereunder shall be charged equally to the parties to the dispute unless the award of the arbitrator, the arbitrators, or the umpire, as the case may be, shall otherwise provide.

**APPENDIX – I**

**BID PRICE SCHEDULE**  
**(GROUP-A/B/C/D/E/F/G/H/I/J/K/L)**

**APPENDIX - I****OIL & GAS DEVELOPMENT COMPANY LTD.****BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL, ELECTRICAL, INSTRUMENTATION AND  
TELEMETRY WORKSHOP EQUIPMENT****(To be Submitted with Financial Bid)**

ITEM	MATERIAL DESIGNATION	TOTAL PRICE F.O.R. BASIS (IN PKR)
1	Group - A: Mechanical Maintenance Machines	
2	Group - B: Welding / Cutting Machines for Mechanical Workshop	
3	Group - C: Maintenance Tools for Mechanical Workshop	
4	Group - D: Mechanical Inspection Tools	
5	Group - E: Electrical Inspection Tools	
6	Group - F: Instrument Testing Tools	
7	Group - G: Electrical / Instrument / Telemetry Maintenance Tools	
8	Group - H: Telemetry Testing Tools	
9	Group - I: Lifting Equipment for Mechanical Workshop	
9	Group - J: Air Compressor	
9	Group - K: Pumps	
9	Group - L: Combination Pressure Test Bench	
<b>GRAND TOTAL</b>		

**NOTE:**

- 1) THE ABOVE PRICE SHALL BE INCLUSIVE OF ALL TAXES, EXCEPT GST.
- 2) GENERAL SALES TAX MUST BE QUOTED SEPERATELY.

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**Sign & Seal**



## Zishan Engineers (Pvt.) Ltd.

An ISO 9001-2015 certified company,  
47/F, Block 6, PECHS, Karachi-Pakistan  
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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT (GROUP - A: MECHANICAL MAINTENANCE MACHINES)



0	16-11-2017	Issued for Tender	AK	SMHA	MAS
<b>Rev.</b>	<b>Date</b>	<b>Description</b>	<b>Prepared By</b>	<b>Checked By</b>	<b>Approved By</b>

**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT**

<b>MECHANICAL MAINTENANCE MACHINES (GROUP - A)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1)	SUPPLY & TESTING OF THE FOLLOWING MECHANICAL MAINTENANCE MACHINES:					
a)	CENTRE LATHE MACHINE	1	NOS.			
b)	UNIVERSAL DRILLING / BORING MACHINE	1	NOS.			
c)	GRINDING / CUTTING MACHINE	2	NOS.			
d)	POWER HACK SAW	1	NOS.			
<b>TOTAL</b>						

**NOTE:**

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- 2) GENERAL SALES TAX MUST BE QUOTED SEPARATELY.
- 3) SPECIFICATIONS & DATASHEETS OF ABOVE MENTIONED EQUIPMENT ARE ATTACHED IN VOLUME-II OF THE TENDER DOCUMENT. BIDDER IS REQUESTED TO SUPPLY / INSTALL THE ABOVE IN ACCORDANCE WITH THE SAID DATASHEETS / SPECIFICATIONS.





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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT

### (GROUP - B: WELDING/ CUTTING MACHINES FOR MECHANICAL WORKSHOP)



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**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT**

<b>WELDING/ CUTTING MACHINES FOR MECHANICAL WORKSHOP (GROUP - B)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1)	SUPPLY & TESTING OF THE FOLLOWING MISCELLANEOUS MAINTENANCE TOOLS FOR MECHANICAL WORKSHOP:					
a)	ENGINE DRIVEN STICK & TIG WELDING MACHINE WITH AIR COOLED ACCESSORIES AND WHEEL MOUNTED SKID	1	NOS.			
b)	TIG WELDING MACHINE (OUTPUT CURRENT RANGE UP TO 500 AMPS AC/DC & DUTY CYCLE 60 HZ)	2	NOS.			
c)	PLASMA CUTTING TORCH SET	1	NOS.			
d)	OXY-ACETYLENE WELDING SET WITH ALL ACCESSORIES INCLUDING CYLINDERS, TROLLEY, PRESSURE GAUGES, PIPES, TORCHES, ETC	1	NOS.			
<b>TOTAL</b>						

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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT (GROUP - C: MAINTENANCE TOOLS FOR MECHANICAL WORKSHOP)



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**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT**

<b>MAINTENANCE TOOLS FOR MECHANICAL WORKSHOP (GROUP - C)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1)	SUPPLY & TESTING OF THE FOLLOWING MAINTENANCE TOOLS FOR MECHANICAL WORKSHOP:					
a)	HEAVY DUTY FULL AUTOMATIC PROFESSIONAL INDUCTION HEATER WITH MAGNETIC PROBES. BEARING BORE (INNER DIA) SIZE: 2-30 INCH, TEMP. RANGE: 0-250 DEG C, TIME CONTROL: 0 - 60 MINUTES.	1	NOS.			
b)	BEARING FITTING TOOL KIT. SHAFT SIZE: 1- 10 INCH	1	NOS.			
c)	BEARING HEATER	1	NOS.			
d)	PROFESSIONAL HEAVY DUTY MULTIFUNCTION HYDRAULIC BEARING PULLER KIT WITH 2-ARMS AND 3-ARMS.	2	NOS.			
<b>TOTAL</b>						

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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT (GROUP - D: MECHANICAL INSPECTION TOOLS)



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**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT**

<b>MECHANICAL INSPECTION TOOLS (GROUP - D)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1	SUPPLY OF FOLLOWING INSTRUMENT INSPECTION TOOLS:					
a)	6 INCH LCD DIGITAL VERNIER CALIPER MAKE MITUTOYO OR EQUIVALENT	3	NOS.			
b)	MICROMETER GAUGE 150 MM MAKE MITUTOYO OR EQUIVALENT	3	NOS.			
c)	PORTABLE ULTRASONIC THICKNESS METER	2	NOS.			
d)	PORTABLE HARDNESS METER	2	NOS.			
e)	VIBROMETER WITH ANALYZER	1	NOS.			
f)	MAGNETIC PARTICLE INSPECTION HAND HELD KIT	1	NOS.			
g)	LASER ALIGNMENT TOOL FOR ROTATING EQUIPMENT	1	NOS.			
<b>TOTAL</b>						

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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF ELECTRICAL WORKSHOP EQUIPMENT (GROUP - E: ELECTRICAL INSPECTION TOOLS)

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**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF ELECTRICAL WORKSHOP EQUIPMENT**

<b>ELECTRICAL INSPECTION TOOLS (GROUP - E)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1)	SUPPLY OF FOLLOWING ELECTRICAL INSPECTION TOOLS:					
a)	UNDERGROUND LOW AND MEDIUM VOLTAGE (220V-11KV) POWER CABLE LOCATOR ALONG WITH SIGNAL GENERATOR AND ACCESSORIES, DEPTH UP TO 03-METERS . MODEL: EZICAT200 UNDERGROUND LOCATOR ALONG WITH EZITRACE SIGNAL GENERATOR AND EZIROD SERVICE TRACER AND ACCESSORIES OR EQUIVALENT	1	NOS.			
b)	UNDERGROUND LOW AND MEDIUM VOLTAGE (220V-11KV) CABLE FAULT LOCATOR WITH TRANSMITTER & RECEIVER SYSTEM. DEPTH UP TO 03-METERS AND LENGTH UP TO 2KM.	1	NOS.			
c)	THERMOGRAPHIC CAMERA (THERMAL IMAGING CAMERA) WITH SOFTWARE AND SD/USB PORT FACILITIES OF FOLLOWING SPECIFICATIONS: IR SENSOR: 1024X768 OR HIGHER, THERMAL SENSITIVITY: <0.02 AT 30 DEG C, MINIMUM FOCUS DISTANCE: 0.4M, 4.3 INCH TOUCH COLOR SCREEN DISPLAY WITH 800X840 PIXELS OR HIGHER LATEST, VISUAL IMAGE: FULL COLOR, INFRARED IMAGE: FULL COLOR IR IMAGE, TEMP. RANGE: -40 DEG C TO 2000 DEG C. OR EQUIVALENT OR HIGHER LATEST MODELS.	1	NOS.			
d)	DIGITAL PHASE SEQUENCE METER. VOLTAGE RANGE: 12 - 1000 VOLTS, FREQUENCY: 15 - 400 HZ, OPERATING TIMER: CONTINUOUS, OPERATING TEMP.: 0 - 60 DEG C, DUST AND WATER PROOF IP: 64	1	NOS.			



**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF ELECTRICAL WORKSHOP EQUIPMENT**

<b>ELECTRICAL INSPECTION TOOLS (GROUP - E)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
e)	<u>SCOPE METER</u>  NUMBER OF CHANNELS: 500 MHZ, 4 CHANNELS, REAL-TIME SAMPLE RATE: 5-GS/S, INPUTS 4X BNC INPUT SCOPE PLUS DMM INPUT, INDEPENDENTLY FLOATING ISOLATED INPUTS UP TO 1000 V CAT III/600 V CAT IV BETWEEN INPUTS, REFERENCES AND GROUND, INPUT SENSITIVITY 2 MV-100 V/DIV PLUS VARIABLE ATTENUATION, TRIGGER TYPES CONNECT-AND-VIEW™, FREE RUN, SINGLE SHOT, EDGE, DELAY, DUAL SLOPE, VIDEO, VIDEO LINE, SELECTABLE PULSE WIDTH, N-CYCLE, SCOPE MEASUREMENTS CURSOR: 7, AUTOMATIC: 30, MAXIMUM RECORD LENGTH SCOPERECORD MODE: 30,000 PTS PER INPUT, SCOPE MODE: 10,000 PTS PER INPUT, DISPLAY: FULL COLOR LCD WITH FAST UPDATE RATE, OPERATING TEMPERATURE 0°C TO 60°C. OR EQUIVALENT AND LATEST SPECS.	2	NOS.			
<b>TOTAL</b>						

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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

## BOQ/BID PRICE SCHEDULE FOR SUPPLY OF INSTRUMENTATION WORKSHOP EQUIPMENT (GROUP - F: INSTRUMENT TESTING TOOLS)



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**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF INSTRUMENTATION WORKSHOP EQUIPMENT**

<b>INSTRUMENT TESTING TOOLS (GROUP - F)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1	SUPPLY OF FOLLOWING INSTRUMENT TESTING TOOLS:					
a)	PORTABLE, EXPLOSION-PROOF IR TEST LAMP P/N TL-2055, TEMPERATURE RANGE: -30° TO +85° C, WITH ONE SPARE RECHARGEABLE BATTERY P/N PSU-15 100 – 240 VAC, MAKE: HONEYWELL OR EQUIVALENT	1	NOS.			
c)	HAND TORCH, EXPLOSION PROOF, IP 64, POWER LED, RECHARGEABLE BATTERY WITH ITS CHARGER, CHARGING VOLTAGE 220VAC, 50HZ, OR EQUIVALENT	2	NOS.			
d)	GLASS THERMOMETER SETS, ASTM CERTIFIED WITH CALIBRATION CERTIFICATE, MAKE THERMCO OR EQUIVALENT RANGE 0-650F, MODEL/CATALOG NUMBER ACC6270F4FC	2	NOS.			
e)	PNEUMATIC PRESSURE CALIBRATOR, SERIES 65-120, RANGE -100 TO 850" WC, DUAL SCALE PSI & INCH WC, WITH FITTING ACCESSORY (FLEXIBLE TUBE & TUBE FITTING), MAKE WALLACE TIERNAN OR EQUIVALENT (WITH CARRING CASE AND ACCESSORIES)	1	NOS.			
f)	MASTER DIGITAL PRESSURE TESTING GAUGE, RANGE UPTO 300 PSI (NPT: 1/4" MALE), 0.05% FULL SCALE ACCURACY, MODEL DPI-104, BATTERY OPERATED WITH ONE SPARE BATTERY, MAKE DRUCK OR EQUIVALENT	1	NOS.			
g)	MASTER DIGITAL PRESSURE TESTING GAUGE, RANGE UPTO 1000 PSI (NPT: 1/4" MALE), 0.05% FULL SCALE ACCURACY, MODEL DPI-104, BATTERY OPERATED WITH ONE SPARE BATTERY, MAKE DRUCK OR EQUIVALENT	1	NOS.			
h)	MASTER DIGITAL PRESSURE TESTING GAUGE, RANGE UPTO 3000 PSI (NPT: 1/4" MALE), 0.05% FULL SCALE ACCURACY, MODEL DPI-104, BATTERY OPERATED WITH ONE SPARE BATTERY, MAKE DRUCK OR EQUIVALENT	1	NOS.			
i)	FIELD COMMUNICATOR 475, INTRINSICALLY SAFE, LATEST MODEL 475 F P 1 E K L U G M T S MAKE: EMERSON	1	NOS.			
j)	MULTIFUNCTION CALIBRATOR, MAKE DRUCK, MODEL DPI 880(RANGE UPTO 100 KHZ) OR EQUIVALENT, COLD JUNCTION (CJ) COMPENSATION: AUTOMATIC/MANUAL, MEASURE MA, VOLTS/MV, HZ/PULSE COUNT, SUPPLY MA, VOLTS/MV, HZ/PULSE COUNT, MEASURE/SIMULATE RTD, TC & RESISTANCE	1	NOS.			
<b>TOTAL</b>						

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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF WORKSHOP

### EQUIPMENT

### (GROUP - G: ELECTRICAL / INSTRUMENT TOOLS)



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**OIL & GAS DEVELOPMENT COMPANY LTD.**  
**BOQ/BID PRICE SCHEDULE FOR SUPPLY OF WORKSHOP EQUIPMENT**

<b>ELECTRICAL/ INSTRUMENT TOOLS (GROUP - G)</b>						
ITEM	MATERIAL DESIGNATION	QTY.	UNIT	UNIT PRICE IN PKR (FOR BASIS)	TOTAL PRICE IN PKR (FOR BASIS)	REMARKS
1	SUPPLY OF FOLLOWING INSTRUMENT MAINTENANCE TOOLS:					
a)	BENCH VICE, SIZE 4", MAKE CRAFTSMAN OR EQUIVALENT	2	NOS.			
b)	BENCH VICE, SIZE 6", MAKE CRAFTSMAN OR EQUIVALENT	2	NOS.			
c)	PIPE VISE , SIZE 4", ORIGIN EUROPEAN OR EQUIVALENT	2	NOS.			
d)	HEAVY DUTY SEPARATE HYDRAULLIC CABLE LUG PUNCHING TOOL KIT. LUG SIZE: 16 SQ. MM TO 630 SQ. MM	2	NOS.			
e)	GASKET CUTTING MACHINE	1	NOS.			
f)	DRILL MACHINE, VOLTAGE 220VAC, FREQUENCY 50 HZ, VARIABLE SPEED, ROTATION IN BOTH CLOCKWISE & ANTICLOCKWISE DIRECTION, POWER RATING 1000W, WITH HAMMERING & DRILLING CAPABILITY AEG OR EQUIVALENT	3	NOS.			
<b>TOTAL</b>						

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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF TELEMETRY WORKSHOP EQUIPMENT (GROUP - H: TELEMETRY TESTING TOOLS)



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**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF TELEMETRY WORKSHOP EQUIPMENT**

<b>TELEMETRY TESTING TOOLS (GROUP - H)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1	SUPPLY OF FOLLOWING TELEMETRY TESTING TOOLS:					
a)	PORTABLE, EXPLOSION-PROOF IR TEST LAMP P/N TL-2055, TEMPERATURE RANGE: -30° TO +85° C, WITH ONE SPARE RECHARGEABLE BATTERY P/N PSU-15 100 – 240 VAC, MAKE: HONEYWELL OR EQUIVALENT	1	NOS.			
b)	DIGITAL TEST GUAGE (MASTER GAUGE), RANGE 5000 PSI ALL ACCESSORIES QUICK FITTINGS (MNPT 1/4" OR EQUIVALENT) MAKE: CRYSTAL ENGG.	1	NOS.			
c)	PNEUMATIC HIGH PRESSURE TEST PUMP, MAKE: AMETEK, MODEL: AMETEK JOFRA 65-P014, PRESSURE RANGE: 0 TO 10,000 PSI / 700 BAR TEST MEDIA: OIL WETTED PARTS: ALUMINUM, BRASS, STAINLESS STEEL CONNECTIONS TO TEST OBJECTS: 4 X 1/4" NPT FEMALE	1	NOS.			
d)	HAND TORCH, EXPLOSION PROOF, IP 64, POWER LED, RECHARGEABLE BATTERY WITH ITS CHARGER, CHARGING VOLTAGE 220VAC, 50HZ, OR EQUIVALENT	2	NOS.			
e)	ELECTRONIC TOOL KIT WITH TOOLS (DELUXE ELECTRONICS TOOL KIT - TK-3000)	1	NOS.			
f)	GLASS THERMOMETER SETS, ASTM CERTIFIED WITH CALIBRATION CERTIFICATE, MAKE THERMCO OR EQUIVALENT RANGE 0-650F, MODEL/CATALOG NUMBER ACC6270F4FC	2	SET			
g)	PNEUMATIC PRESSURE CALIBRATOR, SERIES 65-120, RANGE -100 TO 850" WC, DUAL SCALE PSI & INCH WC, WITH FITTING ACCESSORY (FLEXIBLE TUBE & TUBE FITTING), MAKE WALLACE TIERNAN OR EQUIVALENT (WITH CARRING CASE AND ACCESSORIES)	2	NOS.			
h)	THERMOCOUPLE CALIBRATOR FOR K & J TYPE, MAKE FLUKE OR EQUIVALENT	1	NOS.			
i)	MASTER DIGITAL GUAGE, RANGE 500 PSI WITH ALL ACCESSORIES QUICK FITTINGS(1/4" MNPT) CRYSTAL ENGG. OR EQUIVALENT	1	NOS.			
j)	MASTER DIGITAL GUAGE, RANGE 1500 PSI WITH ALL ACCESSORIES QUICK FITTINGS(1/4" MNPT) CRYSTAL ENGG. OR EQUIVALENT	1	NOS.			

**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF TELEMETRY WORKSHOP EQUIPMENT**

<b>TELEMETRY TESTING TOOLS (GROUP - H)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
k)	FIELD COMMUNICATOR 475, INTRINSICALLY SAFE, LATEST MODEL 475 F P 1 E KL U GMT S MAKE: EMERSON	1	NOS.			
l)	DIGITAL THERMOMETER METER (WITH PROBES) FOR K AND J TYPE THERMOCOUPLE MAKE FLUKE OR OR EQUAVALANT.	2	NOS.			
m)	MA SOURCE MAKE/MODEL: FLUKE/725 OR EQUIVALENT WITH DP MODULE FLUKE-700P00 TO MEASURE DP 0 TO 1 IN H2O& PRESSURE MODULE FLUKE- 700P27 TO MEASURE , MEASURE/SOURCE PRESSURE, SOURCE/SIMULATE VOLTS, MA, THERMOCOUPLES, RTDS, FREQUENCY, AND OHMS TO CALIBRATE TRANSMITTERS.	1	SET			
n)	FLUKE 700 PTPK HYDRAULIC TEST PRESSURE KIT.	1	NOS.			
o)	USB TO RS-232 CONVERTER MAKE MOXA EQUIVALENT	1	NOS.			
p)	RS-232 TO 485 CONVERTER MAKE: MOXA OR EQUIVALENT	1	NOS.			
q)	FLUKE PRESSURE MODULES 0-100PSI, 0-500PSI, 0-1500 PSI	1 each	NOS.			
r)	FREQUENCY / LOOP CALIBRATOR (DPI 841/842), MAKE DRUCK OR EQUIVALENT, CPM, CPH AND TOTALIZING COUNTER, MA MEASURE, SWITCH TEST AND 24V LOOP POWER, SINE, SQUARE AND TRIANGULAR WAVEFORMS	1	NOS.			
<b>TOTAL</b>						

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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT (GROUP - I: LIFTING EQUIPMENT FOR MECHANICAL WORKSHOP)



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**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT**

<b>LIFTING EQUIPMENT FOR MECHANICAL WORKSHOP (GROUP - I)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1)	SUPPLY, INSTALLATION & TESTING OF THE FOLLOWING LIFTING EQUIPMENT FOR MECHANICAL WORKSHOP:					
a)	MOBILE OVERHEAD CRANE WITH HOIST ARRANGEMENT & SITE INSTALLATION (LIFTING CAPACITY: 15 TONS)	1	NOS.			
<b>TOTAL</b>						

**NOTE:**

- 1) THE ABOVE PRICE SHALL BE INCLUSIVE OF ALL TAXES, EXCEPT GST.
- 2) GENERAL SALES TAX MUST BE QUOTED SEPARATELY.
- 3) SPECIFICATIONS & DATASHEETS OF ABOVE MENTIONED EQUIPMENT ARE ATTACHED IN VOLUME-II OF THE TENDER DOCUMENT. BIDDER IS REQUESTED TO SUPPLY / INSTALL THE ABOVE IN ACCORDANCE WITH THE SAID DATASHEETS / SPECIFICATIONS.



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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT (GROUP - J: AIR COMPRESSOR)



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**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT**

<b>AIR COMPRESSOR (GROUP - J)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1)	SUPPLY & TESTING OF THE FOLLOWING MECHANICAL MAINTENANCE MACHINES:					
a)	ENGINE DRIVEN AIR COMPRESSOR	1	NO.			
<b>TOTAL</b>						

**NOTE:**

- 1) THE ABOVE PRICE SHALL BE INCLUSIVE OF ALL TAXES, EXCEPT GST.
- 2) GENERAL SALES TAX MUST BE QUOTED SEPARATELY.
- 3) SPECIFICATIONS & DATASHEETS OF ABOVE MENTIONED EQUIPMENT ARE ATTACHED IN VOLUME-II OF THE TENDER DOCUMENT. BIDDER IS REQUESTED TO SUPPLY / INSTALL THE ABOVE IN ACCORDANCE WITH THE SAID DATASHEETS / SPECIFICATIONS.



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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT (GROUP - K: PUMPS)



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**OIL & GAS DEVELOPMENT COMPANY LTD.****BOQ/BID PRICE SCHEDULE FOR SUPPLY OF MECHANICAL WORKSHOP EQUIPMENT**

<b>PUMPS (GROUP - K)</b>						
<b>ITEM</b>	<b>MATERIAL DESIGNATION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICE IN PKR (FOR BASIS)</b>	<b>TOTAL PRICE IN PKR (FOR BASIS)</b>	<b>REMARKS</b>
1)	SUPPLY & TESTING OF THE FOLLOWING MECHANICAL MAINTENANCE MACHINES:					
a)	PORTABLE PUMP	1	NO.			
b)	PNEUMATIC HIGH PRESSURE TEST PUMP, RANGE -14 TO 3000PSI, NPT 1/4", ADJUSTMENT RESOLUTION UP TO 0.1 MBAR. MAKE: ADDITEL, MODEL: 920, OR EQUIVALENT	1	NO.			
<b>TOTAL</b>						

**NOTE:**

- 1) THE ABOVE PRICE SHALL BE INCLUSIVE OF ALL TAXES, EXCEPT GST.
- 2) GENERAL SALES TAX MUST BE QUOTED SEPARATELY.
- 3) SPECIFICATIONS & DATASHEETS OF ABOVE MENTIONED EQUIPMENT (1.a) ARE ATTACHED IN VOLUME-II OF THE TENDER DOCUMENT. BIDDER IS REQUESTED TO SUPPLY / INSTALL THE ABOVE IN ACCORDANCE WITH THE SAID DATASHEETS / SPECIFICATIONS.



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## OIL & GAS DEVELOPMENT COMPANY LTD.

### KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II

### BOQ/BID PRICE SCHEDULE FOR SUPPLY OF WORKSHOP

### EQUIPMENT

### (GROUP - L: COMBINATION PRESSURE TEST BENCH)



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**OIL & GAS DEVELOPMENT COMPANY LTD.**  
**BOQ/BID PRICE SCHEDULE FOR SUPPLY OF WORKSHOP EQUIPMENT**

<b>COMBINATION PRESSURE TEST BENCH (GROUP - L)</b>						
ITEM	MATERIAL DESIGNATION	QTY.	UNIT	UNIT PRICE IN PKR (FOR BASIS)	TOTAL PRICE IN PKR (FOR BASIS)	REMARKS
1	SUPPLY OF VLAVE TEST EQUIPMENT					
a)	COMBINATION PRESSURE TEST BENCH FOR TESTING OF PSVS & CONTROL VALVES FROM 1" TO 20" (PRESSURE RANGE: 0-3000 PSI, WITH FITTING ARRANGEMENT TO SUITE RTJ & RF FLANGE CONNECTIONS), WITH AIR (BOOSTER) AND STORAGE SYSTEM MAKE: VENTIL/UNIGRIND OR EQUIVALENT	1	NOS.			
<b>TOTAL</b>						

**NOTE:**

- 1) THE ABOVE PRICE SHALL BE INCLUSIVE OF ALL TAXES, EXCEPT GST.
- 2) GENERAL SALES TAX MUST BE QUOTED SEPARATELY.



**ATTACHMENT – I**

**TERMS AND CONDITIONS OF INLAND**

**LETTER OF CREDITS**

**(GROUP-A/B/C/D/E/F/G/H/I/J/K/L)**

**ATTACHMENT – I****TERMS AND CONDITIONS OF THE INLAND L/C**  
**(GROUP-A/B/C/D/E/F/G/H/I/J/K/L)****1.0 IN-CHARGE STORE KUNNAR**

The material must be consigned to following address:

In-Charge Store Kunnar  
OGDCL Kunnar LPG and Oil Field,  
Tando Jam, District Hyderabad,  
Sindh, Pakistan.  
Tel: +92-(0)22-2789250  
Fax: +92-(0)22-2761410  
E-mail: store\_kunnar@ogdcl.com

**2.0 PACKING**

The Packing of the material must conform to the International Standards.

**3.0 SHIPPING DOCUMENTS**

Shipping documents shall normally consist of the following:

- 3.1 Clean Truck Receipt/Carrier Receipt showing freight paid & indicating Contract / Inland LC details.
- 3.2 Original detailed commercial invoice showing material description, quantity unit price and total price strictly in line with the Contract and verified by OGDCL.
- 3.3 Annexure-C
- 3.4 Copy of applicable GST invoice.
- 3.5 Copy of NTN Certificate
- 3.6 Duly Signed & Stamped Note
- 3.7 Packing list

- 3.8 Mill Inspection/Quality Certificates.
- 3.9 Warranty Certificate
- 3.10 Third Party Inspection Certificate from any of the following (if required)
- Lloyds
  - SGS
  - TUV Austria Bureau
  - Velosi
- 3.11 Certificate of origin.
- 3.12 Certificate issued by OGDCL that ordered equipment/material has been received at delivery location and inspected and accepted

#### 4.0 **INSTRUCTIONS FOR COMPLETING SHIPPING DOCUMENTS**

- 4.1 The shipping invoice should be marked on top in capital words:
- a) Complete, first and last consignment (if all the contractual material is shipped in one lot).
  - b) First partial Shipment/Second partial shipment (and so on) Final and last shipment as the case may be if shipments are effected in parts.
- 4.2 All invoices should be signed, and must indicate value of the each item total value.

#### 5.0 **SHIPMENT INTIMATION**

- 5.1 The beneficiary within 24-48 hours of making shipment must send Fax to:
- i. In-charge Store Kunnar  
OGDCL Kunnar LPG and Oil Field,  
Tando Jam, District Hyderabad,  
Sindh, Pakistan.  
Tel: +92-(0)22-2789250  
Fax: +92-(0)22-2761410  
E-mail: [store\\_kunnar@ogdcl.com](mailto:store_kunnar@ogdcl.com)

- ii. Manager (SCM)-Foreign (email [irshad\\_muhammad@ogdcl.com](mailto:irshad_muhammad@ogdcl.com))
  - a) L/C number and Contract No.
  - b) Total FOR value of the consignment shipped.
  - c) No. of boxes/package/pieces etc.
  - d) Net and gross weights.
  - e) Expected time of arrival (ETA) of material.

## 6.0 **INSTRUCTION REGARDING TRANSMISSION/NEGOTIATION OF SHIPPING DOCUMENTS**

### 6.1 **Original/Negotiable Documents**

- a) The beneficiary immediately upon making shipments(s) should negotiate the original clean shipping documents free from any discrepancy with negotiating bank as indicated in the L/C.
- b) If clean documents free from discrepancy are not negotiated within negotiation period mentioned in the L/C. or if the documents are withheld by the Bank on account of any discrepancy whatsoever the demurrage or financial impact if any incurred due to late negotiation of clean documents will be on beneficiary's account.
- c) Original/negotiable documents must contain at least four sets of the shipping documents mentioned under Clause No. 5 above including one set of the parts catalogue, brochures, technical literature, etc., invariably.
- d) The original shipping documents should be dispatched through courier service by the negotiating bank at the beneficiary's cost within 24-48 hours after receipt from the beneficial.
- e) The discrepant documents with minor discrepancies will be accepted subject to the consent of Procurement Department. Due to the discrepancies reported by L/C opening bank will be on beneficiary account.

### 6.2 **Non-Negotiable Documents**

Three (03) complete sets of non-negotiable shipping documents including one set of parts catalogue brochures/technical literature etc. should be received by Incharge Store (Kunnar Field).

## 7.0 **LIQUIDATED DAMAGES**

If the contractor fails to deliver any or all of the goods within the time period(s) specified in the Contract, the Purchaser shall, without prejudice to other remedies under the contract, deduct from the contract price / Bank Guarantee as liquidated damages, a sum not more than 0.5% of the contract price per week or part thereof for first four weeks, 1.00% per week for next four weeks and 1.5% per week exceeding four weeks up to maximum extent of 10% of the contract value.

In case the Purchaser is satisfied that the delayed / defective shipment was due to some mistake or circumstances beyond the control of the contractor and the contractor has not intentionally or negligently contributed in the delay, the Purchaser may impose Liquidated Damages for not more than a sum equivalent to 0.5% of the delayed or defective shipment per week or part thereof for first two weeks, 1.00 % per week for next three weeks and 1.5% per week exceeding five weeks but not exceeding 10% of the contract value of the delayed/ defective shipment provided that the contractor takes immediate remedial measures for the-replacement of defective shipment and takes prompt steps to mitigate the delay. The Purchaser may however, impose Liquidated Damages as per (a) above if the delayed or defective shipment has affected the project completion schedule or has resulted in production losses.

Even after imposition of LDs, if the supplier fails to materialize the delivery (material and or services); the Purchaser reserves the right to cancel Purchase order/contract/LC and to forfeit the Guarantee (if applicable) after intimating the supplier for such cancellation / forfeiture.

## 8.0 **PERFORMANCE BANK GUARANTEE**

Payment against this credit will not be released by the corresponding bank to the beneficiary till receipt of copy of performance bond required to be submitted to OGDCL against the contract against which this letter of credit has been established.

## 9.0 **AMENDMENT/EXTENSION OF L/C**

The beneficiary will positively confirm shipment of all ordered materials within L/C validity or made request for extension of shipment and negotiation dates at least 15 to 30 days prior to the expiry of L/C. If shipment is not effected within L/C validity or request for extension is not received 15 to 30 days prior to expiry of L/C validity, no request for grant of extension in shipment and negotiation period will be entertained under any circumstances. In case of extension in shipment/negotiation period, the beneficiary will be required to extend the validity of his performance bond (if provided) accordingly. All charges on this account will be on beneficiary's account.

10.0 **CHARGES FOR L/C ESTABLISHMENT**

- 10.1 All Charges of the bank for credit opening will be borne by the OGDCL.
- 10.2 All charges of corresponding bank such as negotiation of documents, adding confirmation to credit etc. will be to the account of beneficiary.
- 10.3 All charges for amendments/extension in L/C will be to the account of beneficiary.

**Tender # PROC-FC/CB/PROJ/KPD-3136/2017**

<b>Sr #</b>	<b>Groups</b>	<b>Bid Bond Value PKR</b>
1	Group-A	330,000
2	Group-B	135,000
3	Group-C	44,000
4	Group-D	220,000
5	Group-E	170,000
6	Group-F	60,000
7	Group-G	20,000
8	Group-H	120,000
9	Group-I	330,000
10	Group-J	15,000
11	Group-K	20,000
12	Group-L	250,000

**Note :** Bidders participating in more than one group shall ensure to submit separate bid bond for each group and it should be ensured as well that proposal for each group should be submitted in a separate envelope.