



# OIL AND GAS DEVELOPMENT COMPANY LIMITED

## **1.0 SCHEDULE OF REQUIREMENT:**

**Dated: 18-04-2022**

### **TENDER ENQUIRY # TE/COF/ATA/037/2022**

Technical services for Preventive Maintenance of CHANDA OIL FIELD-KPK during ATA-2022. (TENTAIVE PLAN OF 07 DAYS IN JUNE-2022).

<b>S#</b>	<b>Description</b>	<b>Reference #</b>	<b>Rate</b>	<b>Total rate (inclusive of all Taxes)</b>	<b>Deviation</b>
1	As per scope of work given in tender documents				

<b>Sr.#</b>	<b>Tender Enquiry No.</b>	<b>Description</b>	<b>Bids Submission Date &amp; Time</b>	<b>Bids Opening Date &amp; Time</b>
1	COF/E&I/037/2022	HIRING OF SERVICES TO ACCOMPLISH THE E&I ATA-2022 ACTIVITIES AS PER ATTACHED SCOPE OF WORK.	08-MAY-2022 1100 HRS	08-MAY-2022 11:30HRS

### **Note:**

**Separate rate AGAINST EACH ACTIVITY to be quoted for every activity as mentioned in scope of work together with consumables and repair works etc.**



**The special tools, lifting equipment's (Crane, Lifter), Lathe Machine and PSV's test bench provided by OGDCL but in case of operational requirements CRANE, Lifter may be asked to arrange by Contractor. So the cost of hiring of 30~50 ton CRANE and 10 ~ 20 ton LIFTER may be mention separately in the bid.**

## **2.0 E&I, TERMS & CONDITIONS FOR ATA-2022, CHANDA Oil Field.**

### **2.1 GENERAL "TORS" FOR CONTRACTORS:**

1. The Technical facilities from Contractor are required for Annual Maintenance of MOTORS, MCC, Bus bar, Ignition system, Alternators, Control Valves , PSV's and modifications jobs **(The dismantling, reinstallations of Motors/ Alternators etc at Electrical end and CV's/ PSV's including CV's Transmitters, positioners , I/P Converters, loop test , calibrations of Instrumentation Terminations integrity test at CCR to Instrument end in Field)** during ATA-2022 for an estimated period of **07 days tentatively schedule from 06-06-2022 to 12-06-2022**, however the schedule and duration of shut down may change as per operational requirements.
2. **The Bids are required in PKR registered in KPRA KPK against each activity as mentioned in the scope of work. Detail of jobs (scope of work) is elaborated in tender documents.**
3. The execution hours will be measured **24 Hours with 02 shifts (12 Hours day shift & 12 Hours night shift)**. Sunday/holiday will be considered as normal working day.
4. **Payment will be made as per actual work done through cross cheque after completion and inspection of execution as per Standing store procedures of OGDCL.**
5. Skillful manpower should be well qualified in their relevant craftsmanship.
6. Management of the plant reserves the right to terminate the services of hired staff at any time without justification and intimation to Vender.
7. HSEQ Rules & Regulations and COVID SOP's to be strictly followed. 01 HSEQ Officer/supervisor must be member of ATA team. **All PPE's at Contractors end.**
8. All the Bids participating companies should have an ATA experience of working on Oil & GAS Processing.
9. The execution will be conceded out as per operational priority of OGDCL, contractor must mobilize all its resources required to complete the jobs as per time frame given by OGDCL.
10. OGDCL may scrub and enhance or make amendment any type of activity specified in (SOW).
11. Technical manpower must be skilled enough, having at least five years' experience in relevant trade. Skilled manpower will be cross-examined by OGDCL professionals in all disciplines, if deemed essential contractor should arrange the interview at their premises.
12. Detailed CV's of direct manpower/supervisors is mandatory. Relevant experience of manpower for E&I works is mandatory.
13. Use of mobile phone and camera is strictly prohibited at Plant area.
14. Any mandatory technical clarification/detail regarding SOW should be cleared before submission of bid.
15. No change in affluence of submission will be entertained after bid submission day of the week.



### **3.0 CONTRACTOR RESPONSIBILITIES:**

1. **Site administration personnel with associated resources** like computer, printers, photocopiers etc.
2. Providing PPE (Safety helmet, Coverall, Safety shoes, Gloves, etc.) of all kinds to hired staff / officers/ supervisors/fitters including best quality Face Masks.
3. CV's of all the skilled Personnel will be provided well before ATA. Evaluation of all the short listed skilled personnel will be carried out by Field supervisors well before the ATA.
4. The bidder prefers the Local labors for general works while hiring services for ATA.
5. All kind of Tools and testing equipment's and general consumables like WD-40, Corded waste, Contact cleaners, Grease rust Olin etc. must have arrived at site before mobilization.
6. Provision of All type of Rigging and hoisting equipment.
7. Scaffolding Services (installation and dismantling).
8. Removal of PSV's Control Valves Insulation where necessary by skilled Insulator.
9. Security of all the Hired Crew.
10. Drinking Water, Boarding/ Lodging, refreshment to all the Crew.
11. Pick and drop from Plant to accommodation and back.
12. In case of any accident, medical treatment or compensation, whichever is applicable.
13. Electrical Supply Boards along with cables as per HSE standard.
14. Hand trolley for movement of motors/ parts inside the Plant will be arranged by the Contractor
15. Arrangement of hose Pipes for CV's, PSV's etc for flushing.
16. Proper housekeeping & skids cleaning of all equipment must be ensured.

### **4.0 OGDCL RESPONSIBILITIES:**

1. Electricity for Lighting & Fan.
2. Spare parts other than consumables.
3. Blinds & valves for Isolation & Pressure Testing, PSV's Test Bench.
4. Logistic support i.e. Cranes & Lifters (But Rate for rent may be quoted by Contractor).
5. Nitrogen purging & Leak test.

## **5.0 Electrical SCOPE OF WORK (SOW) FOR ATA-2022 MAINTENANCE**

### **5.1 ROTARY EQUIPMENT:**

Replacement of Motor Bearings, Inspection/Tightening of Power and Control Cables.

Inspection of alternator's power and control connections, AVR, Exciters, Greasing of Bearings and cleaning of Dusts and Webs from Generators.

ACTIVITY	DESCRIPTION	TAG NO	SPECIFICATION	UNIT RATE	TOTAL
LPG01	Stabilized Crude Oil Transfer Pump Motor and MCU	P-100 A & B	380V,22.5A,11KW		
LPG02	Product Cooler Fan Motor and MCU	E-111 A & B	380V, 22A, 11KW		



## OGDCL CHANDA OIL FIELD KPK



LPG03	Condensate Transfer Pump Motor and MCU at LP	P-102 A & B	380V,41A,22KW		
LPG04	LPG Reflux Pump Motor and MCU	P-103 A & B	380V,5.8A,2.2KW		
LPG05	LPG Loading Pump Motor and MCU	P-104 A & B	380V,16A,7.5KW		
LPG06	MEG Transfer Pump Motor and MCU	P-200 A & B	380V,5.8A,2.2KW		
LPG07	Hot Oil Pump Motor	P-400 A & B	380 V, 30HP		
LPG08	Flare Knock-out Drum Transfer Pump Motor and MCU	P-500 A & B	P-500,380V,22.5A,11KW		



LPG09	Condenser Water Pump Motor	P-701	380V,14KW		
LPG10	Fire Water Jockey Pump Motor and MCU	P-801 A & B	380V,7.8A,4KW		
LPG11	Fire Water Spray Pump Motor and MCU	P-802 A & B	380V,32,5A,18.5KW		
LPG12	Recovered Oil transfer Pump Motor and MCU	P-1201 A & B	380V,5HP		
LPG13	Crude Loading Pump Motor	P-1200 A,B & C	380V, 20HP, 27.3A		
LPG14	Instrument Air Compressor Motor	K-600 A & B	380V,69A,43KW		
LPG15	Generators G1 & G2 Cooling Fan Motors	08 NOs	380V,5A,2.2KW		
LPG16	Generators G1 & G2 Exhaust Fan Motors	02 NOs	380V,13.3A,5.5KW		
LPG17	Gas Generators (Greasing and Cleaning)	G1 & G2	Caterpillar 3412, 235KW		
LPG18	Gas Generators (Greasing and Cleaning)	G3 & G4	Caterpillar 3408, 200KW		
LPG19	Diesel Generator (Greasing and Cleaning)	DG	Cummins, 200KW		

### **5.2 STATIONERY EQUIPMENT: Power House and MCC:**

ACTIVITY	DESCRIPTION	TAG NO	SPECIFICATION		
LPG20	Bus bars inspection & tightening in MCC	Nil	1200 Amp, 40 Feet		
LPG21	Bus bars inspection & tightening in Power House	Nil	1200 Amp, 30 Feet		
LPG22	Street, flood & Tube lights	NIL	Boundary & Plant Area		

## **6.0 INSTRUMENTATION SOW:**

### **6.1 SEPARATORS, CRUDE STABILIZATION, MEG, LPG AND AJAX COMPRESSORS:**

ACTIVITY	DESCRIPTION	TAG NO	SPECIFICATION		
LPG23	LIC Inspection, Servicing and Calibration of complete loop ( Including dismantling and reinstallation) to be carried out	V-116 A,B & C	Valve Size: 2",complete loop		
LPG24	LIC Water side, Inspection, Servicing and Calibration of complete loop (Including dismantling and reinstallation) to be carried out	V-116 C	Valve Size: 1", complete loop		



<b>LPG25</b>	<b>PIC</b> , Inspection, Servicing and Calibration of complete loop (Including dismantling and reinstallation) to be carried out.	V-100	Valve Size: 2",complete loop		
<b>LPG26</b>	<b>PIC</b> , Inspection, Servicing and Calibration of complete loop ( Including dismantling and reinstallation) to be carried out	V-101	Valve Size: 2",complete loop		
<b>LPG27</b>	<b>LIC</b> , Inspection, Servicing and Calibration of complete loop ( Including dismantling and reinstallation) to be carried out	V-100	Valve Size: 2",complete loop		
<b>LPG28</b>	<b>LIC</b> , Inspection, Servicing and Calibration of complete loop ( Including dismantling and reinstallation) to be carried out	V-101	Valve Size: 1",complete loop		
<b>LPG29</b>	<b>LCV</b> Crude side, Inspection, Servicing and Calibration of complete loop (Including dismantling and reinstallation) to be carried out for stem side leakage.	V-100/101	Valve Size: 2",complete loop		
<b>LPG30</b>	<b>ENGINE EXHAUST&amp; COMPRESSOR DISCHARGE, Coolant Water</b> Thermocouples to be checked out for any shortage and proper operation.	AJAX K-100	NO,s: 04 J-Type Thermocouple		
<b>LPG31</b>	<b>ENGINE EXHAUST&amp; COMPRESSOR DISCHARGE, Coolant Water</b> Thermocouples to be checked out for any shortage and proper operation.	AJAX K-101	NO,s: 07 J-Type Thermocouple		
<b>LPG32</b>	<b>ENGINE EXHAUST&amp; COMPRESSOR DISCHARGE, Coolant water</b> Thermocouples to be checked out for any shortage and proper operation.	AJAX K-102	NO,s: 07 J-Type Thermocouple		
<b>LPG33</b>	<b>LIC SUCTION SCRUBBER /DUMP VALVE</b> , Inspection, checking, Servicing and Calibration of complete loop ( Including dismantling and reinstallation) to be carried out	K-101	Valve Size: 1",complete loop		
<b>LPG34</b>	<b>LIC Suction &amp; Discharge Scrubber /Dump Valve.</b> (Inspection, Servicing and Calibration of complete loop, including dismantling and reinstallation to be carried out for the removal of leakages.	K-102	Valve Size: 1",complete loop		
<b>LPG35</b>	K-100/101/102 Panel functional & Securities test to be carried out (indicating & shutdown )	K100,K101 & K102	Ajax Compressors Murphy control panel		
<b>LPG36</b>	<b>LIC</b> , Inspection, Servicing and Calibration of complete loop, Including dismantling and reinstallation to be carried out for the removal of leakages.	C-100	Valve Size: 1",complete loop		
<b>LPG37</b>	<b>PIC</b> , Inspection, Servicing and Calibration of complete loop, Including dismantling and re-installation to be carried out.	C-100	Pressure		



<b>LPG38</b>	<b>LIC</b> , Inspection, Servicing and Calibration of complete loop, Including dismantling and reinstallation to be carried out.	C-101	Valve Size: 1",complete loop		
<b>LPG39</b>	C-100 /101 <b>LEVEL SWITCHES</b> , Function checking and calibration (high/low) to be carried out	C-100 & C-101	LPG Area		
<b>LPG40</b>	<b>LIC/FIC/PIC/TIC</b> , Calibration, cleaning and servicing of locally installed controllers with their control valves to be checked.	PLANT	20 No's Complete		
<b>LPG41</b>	<b>TCV</b> C-901 leakage to be removed		1",complete loop		
<b>LPG42</b>	<b>PSV's</b> at V-116A, B, C-V/ 100V/ 101,V/ 102,V/ 103,V/ 104,V/ 105,V/ 106,V/ 108,V/109,V/112,V/201,V/300,V/400,V/500, C-100/C101/S-100/P-200-A & B/P-104A & B, to be check/ verify at set pressures.	Crude stabilization, LPG, MEG Area, Hot oil system, Flare system.	PLANT(28 PSV's List also attached)		
<b>LPG43</b>	<b>LEVEL SWITCHES</b> , General servicing and calibration of all installed level switches at plant to be carried out.	Separators, crude stabs, LPG, MEG, Hot oil sys, compressors	PLANT		
<b>LPG44</b>	<b>SDV</b> 460 at MEG Re-boiler inlet line leakage problem to be rectified.	MEG Unit	Valve Size: 4",complete loop		
<b>LPG45</b>	<b>TCV</b> C-901 leakage to be removed.	HOT OIL	Valve Size: 1",complete loop		
<b>LPG46</b>	<b>LIC</b> MEG side to be calibrated/checked	V-108	Valve Size; 1",complete loop		
<b>LPG47</b>	<b>PSV's</b> of Feed Gas Compressor to be checked/tested for actual pressure.	Feed Gas Compressor	NO,s: 04 Each Size: 3x4"RF SP:600,600,1100 & 1600 Psi		
<b>LPG48</b>	LPG Bullet B&D gauging system indication in CCR to be rectified.	V-113 A,B,C & D	Each:01		
<b>LPG49</b>	<b>TIC</b> to be Calibrated/Checked	Dehydration Re-boilers	Valve Size: 1",complete loop		

## **7.0 COMPRESSORS (INSTRUMENT AIR, SALE GAS & FEED GAS)**

ACTIVITY	DESCRIPTION	TAG NO	SPECIFICATION		
LPG50	Both Instrument Air compressors of SOV's cleaning, Servicing, calibration of all switches, and inspection of control panel termination.	K-600 A&B	SOV's: 06 T Switches:04 P Switches: 04 & other accessories Complete.		
LPG51	Both instrument air dryers Security inspection, SOV's & Diaphragm Valves Cleaning, Servicing, and Checking of PSV,s , PT & Switches.	Instrument Air Dryers A&B	PT: 01 P Switch:01 SOV's: 04 PSV,s:04		
LPG52	Calibration of installed off skid instrumentation i.e., Transmitters, switches, SOV's, Panel functioning, inspection/ verification of securities/ interlocking's related to compressor & verification of control panel terminations	FEED GAS COMPRESSOR	L. Switches: 08 SOV,s:07 PT:09 LCV,s: 04 & other accessories Complete.		
LPG53	PSV,s of Sale Gas Compressor to be checked/tested for actual pressure.	Sale Gas Compressor, Feed Gas	NO,s : 03 Size: 1.5x2,1.5x2 & 2x2		

**8.0 HOT OIL & REF. PACKAGE:**

S.NO	DESCRIPTION	TAG NO	SPECIFICATION		
LPG54	Calibration of installed instrumentation i.e., Transmitters, control valve, switches, SOV's, Panel functioning, inspection/ verification of securities/ interlocking's & verification of control panel terminations.	HOT OIL SYSTEM	TCV loop:01 Shut off valves:02 SOV,s:03 Temp Cut off loop;01 F.Switch:1 LT:01 L.Switch:01 UV Scanner:03 & Complete		
LPG55	CCR Panel's, cleaning cables dressing & Rechecked of termination including field JB,s.	CCR Panels	COMPLETE		
LPG56	Calibration of installed instrumentation i.e., Transmitters, control valves, switches, SOV's, Panel functioning, inspection/ verification of securities/ interlocking's & verification of control panel terminations.	REFRIGERATION PACKAGE	SOV,s :05 Press Switch: 07 T. Switches:04 P.Txr:03 L. Switch: 03 Control Loop: 05 Temp Sensors & Loops Complete.		
	<b>Total Cost:</b>				
	<b>Grand Total with all Taxes including GST @17%</b>				



**NOTE:**

A separate inspection team of Electrical (for static and rotary equipment) and Instrument side is required at time of Plant commissioning after ATA-22, which will be issue completion of ATA activities. The Contractor crew will retain for startup actives and must attend all anomalies till smooth plant operations.

- Annex C to be provided with “submitted” status and CPR as per rules of KPRA.
- Financial Evaluation will be on full consignment wise (Grand Total of all jobs)