OIL & GAS DEVELOPMENT COMPANY LIMITED

TENDER ENQUIRY NO. SERVICES/CB/DO-6400000052/2021

HIRING OF BOP INSPECTION SERVICES

TERMS OF REFERENCE (TOR) FOR VARIOUS BOPS INSPECTION

SCOPE OF WORK:

1. OGDCL intends to carry out overhaul/repair of various Well Control Equipment. In order to carry out such overhaul and repair activities and prior to inviting reputable Workshops for such work, **this tender is floated with the objective of inspecting various Ram and Annular type Blow Out Preventers (BOPs) by a reputable workshop**. Upon availability of inspection reports the BOP units that will be considered repairable will subsequently be repaired / overhauled under API 16AR for RSL1 or RSL2 for Well Control Equipment overhauls/repairs for Blow Out Preventers (BOPs). The contract will be for a period of 01 year and extendable for another 01 year with the mutual consent.

2. Workshop to carry out visual and dimensional inspections of various Blow Out Preventers. BOPs to be inspected have either Original Equipment Manufacturer (OEM) or Current Equipment Manufacturer (CEM) as Cameron, Shaffer and Hydril.

3. After award of Contract to successful bidder, Well Control equipment will be sent to designated workshop. Equipment will be stripped and inspected. The workshop should be able to offer services of inspecting Blowout Preventer Equipment (BOPs) as per the technical requirements set in this document.

4. After carrying out necessary inspections, preparing reports including both visual and dimensional checks (including photographs of each BOP), BOP would be assembled back for returning to OGDCL yard. The inspection report will also include the minimum necessary spare parts required to put back the equipment in good working condition. The inspection job will assist in determining the repair / overhaul scope of work once OGDCL will issue another Invitation to Tender for overhaul / repair. All internal parts to be cleaned and dimensionally inspected and recorded. A report to this effect to be prepared by the Contractor, identifying the extent of repair and spares required to be replaced. Inspection report format to be agreed with OGDCL prior to issue inspection report for any BOP unit.

5. For the purpose of this document “workshop” or “Contractor” refer to the successful bidder of this ITT.

TERMS AND CONDITIONS

1. The technical proposal will contain all the information required as per tender instructions and format and Technical evaluation will be carried out as per attached evaluation criteria placed at Annexure “A (1)”.

2. Contractor is required to prepare proposal valid for lump sum work for inspecting the number of BOPs as identified under this tender highlighted at Annexure “A(2)”. The financial proposal will contain rates for inspection service for each size of BOP as per rate format placed at Annexure “A(3)”. Order will be placed to technically acceptable and financially lowest bidder.

3. OGDCL professional will visit the workshop from time to time and a weekly progress report to be submitted. All BOPs to be inspected in 3 months from the time all have arrived at Contractors workshop/yard.

4. Contractor will have valid APIQ1 certificate for minimum last consecutive 03 years. Since the scope of work is limited to inspection and submitting reports only, therefore Contractor to ensure that it has the qualified man-power that will use the required API guidelines for carrying out visual and dimensional inspections.

5. As all BOPs are more than 20 years old(manufacturing date) and these BOPs are undergone 3 to 4 times Post weld heat treatment in the past, so the Contractor would apply due diligence and identify any units that are not recommended for further repair due to beyond repair deterioration, aging and therefore subsequent repair will not add a reasonable life to the asset e.g. OGDCL would like to use the equipment post repair for a good 05 years period in rigorous oilfield environment. Contractor would submit its recommendation on either to repair or otherwise for such unit and it will be for OGDCL to make final decision in this regard.

6. Contractor will provide inspection reports for each BOP.

7. OGDCL will be responsible for the following:

    7.1 Providing necessary clearance and transport for shifting BOPs from OGDCL yards up to the workshop within Country.
    7.2 Unloading / Loading of BOPs at contractor yard / workshop will be responsibility of the contractor.

8. Contractor will be responsible for the following;-

    8.1 Proper handling of units at their facility
    8.2 Provide weekly report to OGDCL for ongoing inspections

9. Payment of the services performed will be made after the job against verified invoices on submission of workshop inspection reports

10. If Ram type BOP is transported along with Ram Blocks, those will also be inspected.

ANNEXURE-A (1)

TECHNICAL EVALUATION CRITERIA

A. INCOMING INSPECTION (At workshop facility in Pakistan):

1. Complete visual thorough inspection is to be made to include but not necessarily limited to the following:

   a) Check unit for any missing parts or non-conformances
   b) Record all identifying data
   c) Tag unit with job number

2. Forward results of the incoming inspection & the request for Repair Evaluation Check List to the OGDCL Representative.

Disassembly, Clean & Inspection Scope:

i. Contractor is requested to submit evaluation report to OGDCL in the initial stage.
ii. Contractor to carry out complete strip down, steam clean, blast off paint and corrosion.
iii. Contractor to carry out NDT and Hardness tests according to API QP.
iv. Contractor to submit Dimensional inspection reports as per either OEM or CEM specifications.
v. Contractor to forward detailed results/dimension report of the inspection to the OGDCL with the applicable classes of repair after measuring the clearance.
vi. Wear and clearance be submitted in format to illustrate the allowable class of repair.
vii. Completely disassemble BOP, labeling all parts with job number.
viii. Steam clean or solvent clean all seal surfaces.
ix. Sandblast all non-seal surfaces
x. Perform initial Wet Magnetic Particle Inspection of Dye Check Inspection for cracks.
xi. Mark Cracks located
xii. Thoroughly inspect all components to determine whether Repair procedures, or remanufacturing is required
xiii. Perform dimensional inspection, and hardness and record results.
xiv. Forward detailed results /dimension report of the inspection to the OGDCL with the applicable class of repair after measuring the clearance.
xv. Report to be submitted for each BOP along with pre and post inspection pictures.

Technical Evaluation Criteria

S. #.	DESCRIPTION	Response (Yes / No)
1.	Workshop with valid API 16AR RSL1 or RSL2 Authorized repair facility from a minimum one or two reputed OEMs or CEMs to repair/remanufacture/recertify the BOPS with original spare parts from OEM/CEM and having valid APIQ1 certification /ISO certificate of last consecutive 3 years. Bidders to provide the copies of certificates and documentary proof of using original spare parts of OEM/CEM To provide the list of equipment with complete description and capacity of the workshop.	
2.	Workshop with minimum 1 X OEMs / CEMs Audited inspection, repair& re-certification program to repair /recertification under API 16 AR RSL1 & RSL2 of Various Brands to major international rig contractors operating with E &P Companies in Pakistan. Detail to be provided with proof.	
3.	Technical Staff having minimum 10 years' experience in inspection, repair / refurbishment of BOPs. Bidders to submit CV's of experienced professionals along with documentary proof for BOP repair.	
4.	Last three years Audited financial reports.	

ANNEXURE-A (3)

Financial Evaluation Criteria

S.#	Description	QTY	UNIT PRICE US$	TOTAL PRICE US$
Inspection Works Lump sum cost Dismantling, steam clean, Grit Blasting & Corrosion, MPI, Positive material identification and hardness test, dimensional inspection and report submission pre & post inspection as per SOR.				
A- ANNULAR BOPS				
1	29-1/2" Diverter	1		
2	21-1/4" / 20-3/4"	5		
3	13-5/8" / 12"	9		
4	11"	1		
5	8-15/16" / 7-1/16" / 7"	6		
			COST OF INSPECTION (A)	
B- RAM TYPE BOPS				
1	26-3/4"	1		
2	20-3/4" Single Ram BOP	6		
3	13-5/8" Single Ram BOP	1		
4	13-5/8" Double Ram BOP	5		
5	11" Double Ram BOP	1		
6	7-1/16" Single Ram BOP	1		
7	7-1/16" Double Ram BOP	4		
			COST OF INSPECTION (B)	
			TOTAL COST OF INSPECTION = (A)+(B)	

Note:-

- The quantity of BOPs to be inspected mentioned above is at the time of ITB issuance and may vary depending upon the repairable BOPs list at the time of contract finalization
- Contract will be awarded to technically qualified and financial lowest evaluated bidder.
- Payment will be made for inspection services as per actual BOPs inspected based on the reports vetted by OGDCL representative after inspection work finalization.
- The quoted prices shall be inclusive of all taxes except PST/ICT.

ANNEXURE-A (2)

LIST OF BOPs TO BE INSPECTED

BOP INVENTORY AT KOT SARANG

ANNULAR TYPE BOP

S/N	TYPE	SIZE	MAKE/DESCRIPTION	PRESSURE RATING (PSI)	SOURCE	CONDITION/LOCATION
01	ANNULAR BOP	20	HYDRIL 37370	2000	N-55	INTERNAL LEAKAGE
02	ANNULAR BOP	20	HYDRIL 37370 Asset # 1020139	2000	N-4	ELEMENT WEAK
03	ANNULAR BOP	20	Hydrill (37370)	2000		LEAKAGE ELEMENT DAMAGE
04	ANNULAR BOP	20	Hydrill 37370 Asset # 1020479	2000	N-1	ALL SEALS ARE RUPTURED (INSIDE ELEMENT SEEN TO BE OK) MISS ALL BOLT. LEAKED ALL OIL DURING SHIFTING (DEFECT REPORT SEND BY OM RIG N-1 VIA FAX MSG DHN-1/1312 DATED 08-06-2020)
05	ANNULAR BOP	13-5/8	HYD GK13-5/8-5000 42873B	5000	N-2	CAN NOT OPENED+ ELEMNT DAMAGE+RING AREA DMG
06	ANNULAR BOP	12”	HYDRIL GK-12-900 12- 30729-L	900	F125	ELEMENT DAMAGE AT STORE
07	ANNULAR BOP	12”	GK-12-900 30729-L Asset # 1020486	900	N-1	WITH BOTTOM DSAF AT STORE ELEMENT DAMAGE
08	ANNULAR BOP	13-5/8	HYDRILL 1002200	5000	N-4	RING AREA+ELEMENT DAMAGE
09	ANNULAR BOP	13-5/8	HYDRIL GK-1002200 Asset # 1020654	5000	K-750T	TRIED NOT OPENED +RING AREA+ELEMNT DMG
10	ANNULAR BOP	11	GK HYDRIL1002160	10000	K-750T	AT STORE WITH ELEMENT DAMAGE
11	ANNULAR BOP	7”	SHAFER 3707	5000	F125	DEFECT NOT MENTIONED AT STORE
12	ANNULAR BOP HYDRIL	7-1/16	GK-1002020 Asst # 1020188	5000	---	ELEMENT DAMAGE AT STORE
13	ANNULAR BOP	7-1/16	HYDRILL GK6-5000 1002020 Asset # 1020221	5000	N-55	NOT HOLDING PRESSURE
14	ANNULAR BOP	7-1/16		10000	SK 750	AT STORE WITH ELEMENT DAMAGE
15	ANNULAR BOP	8-15/16	GK33502-LY/20809 HYD GK-8-15/16 1500	1500	---	
16	ANNULAR BOP	21-1/4”	HYDRIL-1002560 Asset # 1020572	2000	N-4	FAULT NOT MENTIONED
17	ANNULAR BOP	13-5/8”	NL-SHAFFER	5000	N-55	ELEMENT DAMAGED
18	ANNULAR BOP	7-1/16”	NL-SHAFFER Asset # 1044344	5000	K 750T	VISUALLY SEEMS “OK”

RAM TYPE BOP

S/N	TYPE	SIZE	MAKE/DESCRIPTION	PRESSURE RATING (PSI)	SOURCE	CONDITION/LOCATION
01	S/STACK BOP	20-3/4	CAMRON	3000	EX-125	RAM DAMAGE+09 BOLT MISS+ ALONG WITH 5" RAMS
02	S/ STACK BOP	20-3/4"	CAMRON	3000	---	DEFECT NOT MENTIONED AT STORE ASST-102707 (without rams)
03	S/STACK BOP	20-3/4"	CAMRON	3000	EX-N-55	ALONG WITH 20" ADAPTOR +5" RAM (INTERNAL LEAKAGE) AT STORE
04	S/STACK	20-3/4"	Cameron Asset # 1054510	3000	N-3	WITH 5" RAMS/ FAULT NOT MENTIONED
05	D/STACK BOP	13-5/8	CAMRON	5000	K-750	INTERNAL LEAKAGE+3-1/2 RAM AT STORE
06	D/ STACK BOP	13-5/8	CAMERON	5000	SK 750	WITH OUT RAM+UPPER&BTM GROVE WEAK
07	S/STACK BOP	13-5/8	Camron	5000	SK-750	WITHOUT RAMS
08	D/STACK BOP	13-5/8"	CAMERON	5000	N-3	WITHOUT RAMS
09	D/ STACK BOP	11	Cameron Asset # 1020224	10000	K 750T	AT K-750T WITH BLIND RAMS
10	D/STACK BOP	7-1/16	CAMRON FB477 Asset # 1020269	10000	---	TOP GASKET RING STUCK
11	S/STACK BOP/	7-1/16	CAMRON Asset # 1020483	5000	N-55	UPPER+BTM RING AREA DAMAGE
12	D / STCK BOP +ANNULAR ATTACHED	7-1/16	CAMRON Asset # 1052692	5000		DEFECT NOT MENTIONED
13	TRIPPLE STACK BOP	13-5/8"	CONTROL FLOW INC. Asset # 1090846	15000	CCDC-31	VISUALLY ALL OK
14	D/STACK BOP	13-5/8"	Shanghai Shenkai CHINA	10000	N-55 EX N-1	FAULT NOT MENTIONED (WITH RAMS)
15	D/STACK BOP	13-5/8"	NL-SHAFFER	10000	N-55	FAULT NOT MENTIONED
16	D/STACK BOP	7-1/16"	NL-SHAFFER	5000	Asset of Stacked Rig K-750T	VISUALLY OK & WITHOUT PIPE RAMS
17	D/STACK BOP	7-1/16"	NL-SHAFFER	5000	Asset of Stacked Rig K-750T	VISUALLY OK & WITHOUT RAMS

List of BOPS Dispatched From Kot Sarang to CCDC YARD, Hummak

Annular Type BOP

S/N	TYPE	SIZE	MAKE/DESCRIPTION	PRESSURE RATING (PSI)	SOURCE	CONDITION/LOCATION
1	ANNULAR BOP	13-5/8	HYD GK1002200	5000	N-2	DISPATCHED TO CCDC YARD HUMAK FOR REPAIRING DT. 11-01-22
2	ANNULAR BOP	13-5/8	Hydrill 42873B Astt. 1020588	5000	N-1	DISPATCHED TO CCDC YARD HUMAK FOR REPAIRING DT. 11-01-22
3	ANNULAR BOP	13-5/8”	Shanghai Shenkai FH35-35/70	5000	N-4, DN-960 dt. 15-07-21	LOWER FLANGE RATING 10000PSI DISPATCHED TO CCDC YARD HUMAK FOR REPAIRING DT. 09-08-21

RAM TYPE BOP

S/N	TYPE	SIZE	MAKE/DESCRIPTION	PRESSURE RATING (PSI)	SOURCE	CONDITION/LOCATION
1	S/STACK RAM TYPE	26-3/4”	Model # FZ-68-21 Sr#2013-006	3000	HILONG-16	DISPATCHED TO CCDC YARD FOR REPAIRING
2	29-1/2” Divertor	29-1/2”	Model # FFZ 75-3.5 SR# 2013-003	500	HILONG-16	DISPATCHED TO CCDC YARD FOR REPAIRING
3	S/STACK BOP	20-3/4	NL SHAFER SNO 20028566-18	3000	N-4	DISPATCHED TO CCDC YARD FOR REPAIRING DT. 23-07-21
4	S/STACK BOP	20-3/4	NL SHAFER SNO20028566-19	3000	EX N-4	DISPATCHED TO CCDC YARD FOR REPAIRING DT. 23-07-21