

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

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

ANNEXURE 'A'

Material PROCUREMENT OF 7" & 5" LINER HANGERS ALONG WITH SERVICES


Tender Enquiry No PROC-FB/LCB/DRLG/D-3265-C/2021

Due Date

Evaluation Criteria GROUP WISE

**SCHEDULE OF REQUIREMENT**

Sr No	Description	Unit	Quantity	Unit Price (FOB)	Total Price (FOB)	Unit Price C & F BY SEA	Total Price C & F BY SEA	Deviated From Tender Spec. If Any
<b>Group A</b>								
1	LINER HANGER ASSEMBLY, SIZE 7", Q-125, 32 PPF, VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONN. TO HANG 7" LINER TO SET INSIDE 9-5/8" CASING 47-53.5 PPF, (DRIFTED FOR 6" BIT), FOR DETAILS SEE ATTACHMENT(SR#1(I TO IX).	Sets	15					
2	LINER HANGER ASSEMBLY, SIZE 7", 140 KSI, 35 PPF, VAM 21/TSH BLUE/VA SUPERIOR/JFE CONNECTION TO HANG 7" LINER TO SET INSIDE 9-5/8" CASING 47-53.5 PPF,(DRIFTED FOR 5-7/8" BIT), FOR DETAILS SEE ATTACHMENT(SR#2(a to i).	Sets	13					
3	TIE BACK PACKER COMPLETE WITH SEAL ASSEMBLY & TIE BACK RECEPTACLE (ID-6.074" & DD-6"), 15 FT LENGTH FOR QUOTED 7",32 PPF LINER HANGERS AGAINST SR # 1 OF SOR.	Sets	2					
4	TIE BACK PACKER COMPLETE WITH SEAL ASSEMBLY & TIE BACK RECEPTACLE (ID-5.963" & DD-5.875"), 15 FT LENGTH FOR QUOTED 7",35 PPF LINER HANGERS AGAINST SR # 2 OF SOR.	Sets	2					
5	SPARE SEAL RINGS SET FOR ABOVE QUOTED TIE BACK SEAL ASSEMBLIES AGAINST SR# 3(32 PPF) & SR#4(35 PPF) OF SOR.	Sets	2					
6	TIE BACK FLOAT COLLAR WITH ORIGICE GROOVES (D.D-6") WITH PLUGS FOR QUOTED 7", 32 PPF LINER HANGERS AGAINST SR# 1 OF SOR.	Sets	2					
7	TIE BACK FLOAT COLLAR WITH ORIGICE GROOVES (D.D-5.875") WITH PLUGS FOR QUOTED 7", 35 PPF LINER HANGERS AGAINST SR#2 OF SOR.	Sets	2					
8	8-1/4" OD NOSE TYPE ECCENTRIC REAMER SHOE WITH SIDE CIRCULATION PORTS HAVING SINGLE VALVE,(D.D-6"),Q125, VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONN, PDC DRILLABLE,FOR QUOTED 7", 32 PPF LINER HANGERS AGAINST SR#1 OF SOR.	Number	2					
9	8-1/4" OD NOSE TYPE ECCENTRIC REAMER SHOE WITH SIDE CIRCULATION PORTS HAVING SINGLE VALVE,(D.D-5.875"),140KSI, VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONN, PDC DRILLABLE,FOR QUOTED 7", 35 PPF LINER HANGERS AGAINST SR#2 OF SOR.	Number	2					
10	LANDING COLLAR C/W PLUG CATCHER INSERT, CATCHER TUBE AND CAP, PDC DRILLABLE, FOR QUOTED 7", Q125, 32 PPF (D.D-6"), VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONNECTION AGAINST SR#1 OF SOR.	Number	1					
11	LANDING COLLAR C/W PLUG CATCHER INSERT, CATCHER TUBE AND CAP, PDC DRILLABLE, FOR QUOTED 7", 140 KSI, 35 PPF (D.D-5.875"), VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONNECTION AGAINST SR#2 OF SOR.	Number	1					
12	SINGLE VALVE FLOAT COLLAR, PDC DRILLABLE, FOR QUOTED 7", Q125, 32 PPF (D.D-6"), VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONNECTION AGAINST SR#1 OF SOR.	Number	1					
13	SINGLE VALVE FLOAT COLLAR, PDC DRILLABLE, FOR QUOTED 7", 140 KSI, 35 PPF (D.D-5.875"), VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONNECTION AGAINST SR#2 OF SOR.	Number	1					
14	LINER WIPER PLUG WITH ALUMINIUM/BRASS SHEAR OFF RODS COVERING BOTH WEIGHT RANGES OF QUOTED 7" LINER HANGERS	Number						

*vetted*  
  
 22/1/21

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**ANNEXURE 'A'**

**Material** PROCUREMENT OF 7" & 5" LINER HANGERS ALONG WITH SERVICES

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**Evaluation Criteria** GROUP WISE

**Group A**

	I.E. 32 TO 35 PPF.		
15	PUMP DOWN PLUG FOR 5", 19.5 PPF DRILL PIPE.	Number	2
16	SETTING BALL, 1.750" BRONZE/PHENOLIC FOR QUOTED 7", 32 PPF & 7", 35 PPF LINER HANGERS AGAINST SR# 1 & SR# 2 OF SOR.	Number	2
17	CROSS OVER (D.D-6"), Q125, VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONNECTION PIN DOWN FOR 7", 32 PPF CASING (IF REQUIRED).	Number	1
18	CROSS OVER (D.D-5.875"), 140KSI, VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONNECTION PIN DOWN FOR 7", 35 PPF CASING (IF REQUIRED).	Number	1
19	SERVICES AS PER TOR AGAINST GROUP-A LINER HANGERS (7", 32 PPF & 7", 35 PPF LINER HANGERS)	Number	1

**Group B**

20	LINER HANGER ASSEMBLY COMPLETE WITH ALL ACCESSORIES, SIZE 5", 140 KSI, 18 PPF, VAM HTF NR/TSH WEDGE 513 CONN, TO SET INSIDE 7" CASING 32 TO 35 PPF, FOR DETAILS SEE ATTACHMENT (SR#19 (I TO IX)).	Sets	18
21	TIE BACK PACKER COMPLETE WITH SEAL ASSEMBLY & TIE BACK RECEPTACLE, 15 FT LENGTH, FOR QUOTED 5", 140 KSI, 18 PPF LINER HANGERS AGAINST SR # 19 OF SOR.	Sets	1
22	SPARE SET OF SEAL RINGS FOR ABOVE QUOTED SEAL ASSEMBLY AGAINST SR#20 OF SOR.	Sets	1
23	TIE BACK FLOAT COLLAR WITH ORIGICE GROOVES (D.D-4-1/8" BIT) WITH PLUGS FOR QUOTED 5", 140 KSI, 18 PPF LINER HANGERS AGAINST SR#19 OF SOR.	Sets	1
24	HOLD DOWN SUB FOR QUOTED 5", 140 KSI, 18 PPF (D.D-4-1/8") LINER HANGERS TO SET INSIDE 7", 32 - 35 PPF CASING AGAINST SR#19 OF SOR.	Number	2
25	5-5/8" OD NOSE TYPE ECCENTRIC REAMER SHOE WITH SIDE CIRCULATION PORTS HAVING SINGLE VALVE, GRADE 140 KSI, VAM HTF NR/TSH WEDGE 513 CONNECTION FOR QUOTED 5", Q125, 18 PPF (D.D-4-1/8") LINER HANGER AGAINST SR#19 OF SOR.	Number	2
26	LANDING COLLAR INSERT TYPE C/W PLUG CATCHER INSERT, CATCHER TUBE AND CAP, PDC DRILLABLE FOR QUOTED 5", 140 KSI, 18 PPF (D.D-4-1/8") LINER HANGERS AGAINST SR# 19 OF SOR.	Number	1
27	SINGLE VALVE FLOAT COLLAR, PDC DRILLABLE FOR QUOTED 5", 140 KSI, 18 PPF (D.D-4-1/8") LINER HANGERS AGAINST SR# 19 OF SOR.	Number	1
28	LINER WIPER PLUG WITH ALUMINIUM/BRASS SHEAR OFF RODS FOR QUOTED 5", 140 KSI, 18 PPF (D.D-4-1/8") LINER HANGERS AGAINST SR# 19 OF SOR.	Number	1
29	PUMP DOWN PLUG FOR 3-1/2", 13.3 PPF & 5", 19.5 PPF DRILL PIPES (COMBINATION STRING).	Number	1
30	SETTING BALL, 1.25" BRONZE/PHENOLIC FOR QUOTED 5", Q125, 18 PPF LINER HANGER AGAINST SR#19 OF SOR.	Number	1
31	CROSS OVER, GRADE 140 KSI, VAM HTF NR/TSH WEDGE 513 CONNECTION PIN DOWN FOR QUOTED 5", Q125, 18 PPF (D.D-4-1/8") LINER HANGER AGAINST SR#19 OF SOR. (IF REQUIRED).	Number	1



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**ANNEXURE 'A'**

**Material**                      PROCUREMENT OF 7" & 5" LINER HANGERS ALONG WITH SERVICES

**Tender Enquiry No**        PROC-FB/LCB/DRLG/D-3265-C/2021

**Due Date**

**Evaluation Criteria**      GROUP WISE

**Group B**

32	SERVICES AS PER TOR AGAINST GROUP-B LINER HANGERS (5", 18 PPF)	Number	1
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- Note:**
- I. BID BOND AMOUNTING TO USD 18,000/- FOR GROUP A AND USD 12,000/- FOR GROUP B OR EQUIVALENT PAK RUPEES MUST BE SUBMITTED ALONG WITH THE BID WHICH SHALL BE VALID FOR 150 DAYS BEYOND OPENING DATE.
  - II. EVALUATION CRITERIA ISEACH GROUP WISE.
  - III. BIDDING PROCEDURE IS "SINGLE STAGE ONE ENVELOPE PROCEDURE" MASTER SET OF TENDER DOCUMENT OF THE SAME IS AVAILABLE ON OGDCL'S WEBSITE.
  - IV. BID VALIDITY IS 120 DAYS.
  - V. DELIVERY PERIOD IS 120 DAYS FROM LC ESTABLISHMENT.

*vetted as per approved indent.*

*[Signature]* 22/11/21

# SCHEDULE OF REQUIREMENT (SOR) AGAINST T.E # PROC-FB/LCB/D-3265/C/2020

## GROUP-A

### DESCRIPTION:

1. 7" HYDRAULIC SET ROTATING AND ROTATABLE LINER HANGER GRADE Q125, 32 PPF, VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONNECTION TO HANG 7" LINER (LENGTH +/-1500 METERS) INSIDE 9-5/8", 47 – 53.5 PPF CASING ALONG WITH COLLAR & CROSS OVERS (IF REQUIRED). (DRIFTED FOR 6" BIT. Qty Required = 15 Sets

### CONSISTING OF THE FOLLOWING:-

- I. HYDRAULIC SET POCKET (PROTECTED) SLIP ROTATING AND ROTATABLE LINER HANGER (WHILE CEMENTING) WITH HIGH PERFORMANCE TOP PACKER (HNBR) TESTED AS GAS TIGHT UNDER ISO 14310 V<sub>o</sub> FOR EFFECTIVE ANNULUS SEALING WITH HIGH PERFORMANCE RUBBER SEALS SUITABLE FOR 10,000 PSI BOTTOM HOLE PRESSURE & 350 °F TEMPERATURE, 7" (ID- 6.074" & D.D- 6.000"), Q125, 32 PPF, VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONNECTION TO SET INSIDE 9-5/8", 47 – 53.5 PPF CASING. Qty = 15 Nos
- II. TIE BACK RECEPTACLE (COMPATIBLE TO ITEM AT S.NO. 1.1), 7", Q125, 32 PPF WITH MINIMUM (15 FT) LENGTH. Qty = 15 Nos
- III. 8-1/4" OD NOSE TYPE ECCENTRIC REAMER SHOE WITH SIDE CIRCULATION PORTS HAVING SINGLE VALVE, (D.D- 6.000"), Q125, VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONNECTION FOR 7", 32 PPF CASING. Qty = 15 Nos.
- IV. LANDING COLLAR C/W PLUG CATCHER INSERT, CATCHER TUBE AND CAP, PDC DRILLABLE, 7" (D.D- 6.000"), Q125, 32 PPF, VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONNECTION. Qty = 15 Nos.
- V. SINGLE VALVE FLOAT COLLAR PDC DRILLABLE, 7" (D.D- 6.000"), Q125, 32 PPF, VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONNECTION. Qty = 15 Nos.
- VI. LINER WIPER PLUG WITH ALUMINUM/ BRASS SHEAR OFF RODS FOR 7", Q125, 32 PPF CASING. Qty = 15 Nos
- VII. PUMP DOWN PLUG FOR 5", 19.5 PPF DRILL PIPE. Qty = 15 Nos.
- VIII. SETTING BALL (1.750" BRONZE/PHENOLIC) FOR ABOVE 7" LINER HANGER. Qty = 15 Nos.
- IX. CROSS OVERS (D.D- 6.000"), Q125, VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONNECTION PIN DOWN FOR 7", 32 PPF CASING (IF REQUIRED). Qty = 15 Nos.

### DESCRIPTION:


2. 7" HYDRAULIC SET ROTATING AND ROTATABLE LINER HANGER, GRADE HIGH COLLAPSE (140 KSI OCTG), MIN. COLLAPSE 16,000 PSI , 35 PPF, VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONNECTION TO HANG 7" LINER (LENGTH +/-1500 METERS) INSIDE 9-5/8", 47 PPF - 53.5 PPF CASING ALONG WITH COLLAR & CROSS OVERS (IF REQUIRED) (DRIFTED FOR 5-7/8" BIT) QTY = 13 SETS

### CONSISTING OF THE FOLLOWING:-

- a. HYDRAULIC SET POCKET (PROTECTED) SLIP ROTATING & ROTATABLE LINER HANGER (WHILE CEMENTING) WITH HIGH PERFORMANCE TOP PACKER (HNBR) TESTED AS GAS TIGHT UNDER ISO 14310 V<sub>o</sub> FOR EFFECTIVE ANNUALS SEALING WITH HIGH PERFORMANCE RUBBER SEALS SUITABLE FOR 10,000PSI BOTTOM HOLE PRESSURE & 350 °F TEMPERATURE, 7" (ID- 5.963" & D.D- 5.875") ,HIGH COLLAPSE (140 KSI OCTG), 35 PPF, VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONNECTION TO SET INSIDE 9-5/8", 47 PPF - 53.5 PPF CASING. QTY = 13 NOS.
- b. TIE BACK RECEPTACLE (COMPATIBLE TO ITEM AT S.NO. 2.1), 7", GRADE HIGH COLLAPSE (140 KSI OCTG), 35 PPF, WITH (15 FT) LENGTH. QTY = 13 NOS.
- c. 8-1/4" OD NOSE TYPE ECCENTRIC REAMER SHOE WITH SIDE CIRCULATION PORTS HAVING SINGLE VALVE, (D.D- 5.875"), GRADE HIGH COLLAPSE (140 KSI OCTG), VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONNECTION FOR 7", 35 PPF CASING. QTY = 13 NOS.
- d. LANDING COLLAR C/W PLUG CATCHER INSERT, CATCHER TUBE AND CAP, PDC DRILLABLE, 7"(D.D- 5.875"), GRADE HIGH COLLAPSE (140 KSI OCTG), 35 PPF, VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONNECTION. QTY = 13 NOS.
- e. SINGLE VALVE FLOAT COLLAR PDC DRILLABLE, 7"(D.D- 5.875"), GRADE HIGH COLLAPSE (140 KSI OCTG), 35 PPF, VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONNECTION. QTY = 13 NOS.
- f. LINER WIPER PLUG WITH ALUMINUM/ BRASS SHEAR OFF RODS FOR 7", 140 KSI OCTG, 35 PPF CASING. QTY = 13 NOS.
- g. PUMP DOWN PLUG FOR 5", 19.5 PPF DRILL PIPE. QTY = 13 NOS.
- h. SETTING BALL (1.750" BRONZE/PHENOLIC) FOR ABOVE 7" LINER HANGER. QTY = 13 NOS.
- i. CROSS OVERS (D.D- 5.875"), GRADE HIGH COLLAPSE (140 KSI OCTG), VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONNECTION PIN DOWN FOR 7", 35 PPF CASING (IF REQUIRED). QTY = 13 NOS.

### CONTINGENT SPARE ITEMS FOR GROUP-A, 7" LINER HANGERS (32 AND 35 PPF)

3. TIE BACK PACKER COMPLETE WITH SEAL ASSEMBLY & TIE BACK RECEPTACLE (ID- 6.074" & D.D- 6.000"), 15 FT LENGTH FOR 7", Q125, 32 PPF LINER HANGERS = 02 SETS

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4. TIE BACK PACKER COMPLETE WITH SEAL ASSEMBLY & TIE BACK RECEPTACLE (ID- 5.963" & D.D- 5.875"), 15 FT LENGTH FOR 7", GRADE 140 KSI OCTG, 35 PPF LINER HANGERS = 02 SETS
5. SPARE SEAL RINGS FOR ABOVE SEAL ASSEMBLIES = 02 SETS
6. TIE BACK FLOAT COLLAR WITH ORIGICE GROOVES (D.D- 6.000") WITH PLUGS FOR 7", Q125, 32 PPF LINER HANGERS = 02 SETS
7. TIE BACK FLOAT COLLAR WITH ORIGICE GROOVES (D.D- 5.875") WITH PLUGS FOR 7", GRADE 140 KSI OCTG, 35 PPF LINER HANGERS = 02 SETS
8. 8-1/4" OD NOSE TYPE ECCENTRIC REAMER SHOE WITH SIDE CIRCULATION PORTS HAVING SINGLE CHECK VALVE, (D.D- 6.000"), Q125, VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONNECTION FOR 7", 32 PPF CASING. Qty = 02 Nos.
9. 8-1/4" OD NOSE TYPE ECCENTRIC REAMER SHOE WITH SIDE CIRCULATION PORTS HAVING SINGLE CHECK VALVE, (D.D- 5.875"), 140 KSI OCTG, VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONNECTION FOR 7", 35 PPF CASING. Qty = 02 Nos.
10. LANDING COLLAR C/W PLUG CATCHER INSERT, CATCHER TUBE AND CAP PDC DRILLABLE, 7" (D.D- 6.000"), Q125, 32 PPF, VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONNECTION. Qty = 01 No.
11. LANDING COLLAR C/W PLUG CATCHER INSERT, CATCHER TUBE AND CAP PDC DRILLABLE, 7"(D.D- 5.875"), GRADE HIGH COLLAPSE (140 KSI OCTG), 35 PPF, VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONNECTION. QTY = 01 NO.
12. SINGLE VALVE FLOAT COLLAR PDC DRILLABLE, 7" (D.D- 6.000"), Q125, 32 PPF, VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONNECTION. Qty = 01 No.
13. SINGLE VALVE FLOAT COLLAR PDC DRILLABLE, 7"(D.D- 5.875"), GRADE HIGH COLLAPSE (140 KSI OCTG), 35 PPF, VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONNECTION. QTY = 01 NO.
14. LINER WIPER PLUG WITH ALUMINUM/ BRASS SHEAR OFF RODS COVERING BOTH WEIGHT RANGE OF QUOTED 7" LINER HANGERS I.E. FROM 32 TO 35 PPF. Qty = 02 Nos.
15. PUMP DOWN PLUG FOR 5", 19.5 PPF DRILL PIPE. Qty = 02 Nos.
16. SETTING BALL (1.750" BRONZE/PHENOLIC) FOR ABOVE QUOTED 7", 32 PPF & 7", 35 PPF LINER HANGERS. Qty = 02 Nos.
17. CROSS OVERS (D.D- 6.000"), Q125, VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONNECTION PIN DOWN FOR 7", 32 PPF CASING.(IF REQUIRED). Qty = 01 No.
18. CROSS OVERS (D.D- 5.875"), GRADE HIGH COLLAPSE (140 KSI OCTG), VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONNECTION PIN DOWN FOR 7", 35 PPF CASING (IF REQUIRED). QTY = 01 NO.
19. Services rate as per TOR against Group-A i.e. 7" 32 & 35 PPF Liner Hangers as per Financial Bid Format.

➤ **PLEASE NOTE THAT IN CASE BIDDER QUOTES DIFFERENT THREADS FOR 7" LINER HANGER COMPLETE ASSEMBLY THEN TORQUE LIMIT OF QUOTED 7" LINER HANGER COMPLETE ASSEMBLY THREADS SHOULD BE EQUIVALENT OR EXCEEDS TO THE TORQUE VALUE OF REQUIRED THREADS (VAM 21/TSH BLUE/VA SUPERIOR/JFE LION).**

## GROUP-B

### DESCRIPTION:

20. 5" HYDRAULIC SET ROTATING AND ROTATABLE LINER HANGER GRADE HIGH COLLAPSE (140 KSI OCTG), MIN. COLLAPSE 15,000 PSI, 18 LBS/FT, VAM HTF NR/TSH WEDGE 513 CONNECTION TO HANG 5" LINER (LENGTH +- 1500 M) INSIDE 7", (32 - 35 LBS/FT) CASING ALONG WITH COLLAR & CROSS OVERS (IF REQUIRED) (DRIFTED FOR 4-1/8" BIT). QTY = 18 SETS

### CONSISTING OF THE FOLLOWING ITEMS:-

- I. HYDRAULIC SET POCKET (PROTECTED) SLIP ROTATING & ROTATABLE LINER HANGER (WHILE CEMENTING) WITH HIGH PERFORMANCE TOP PACKER (HNBR) TESTED AS GAS TIGHT UNDER ISO 14310 V<sup>o</sup> FOR EFFECTIVE ANNULUS SEALING WITH HIGH PERFORMANCE RUBBER SEALS SUITABLE FOR 10,000PSI BOTTOM HOLE PRESSURE & 350 °F TEMPERATURE, 5", HIGH COLLAPSE (140 KSI OCTG), 18 PPF, VAM HTF NR/TSH WEDGE 513 CONNECTION TO SET INSIDE 7", (32 – 35 LBS/FT) CASING. (DRIFTED FOR 4-1/8" BIT). QTY = 18 NOS.
- II. TIE BACK RECEPTACLE (COMPATIBLE TO ITEM AT S.NO. 22. I), 5", GRADE HIGH COLLAPSE (140 KSI OCTG), 18 PPF WITH (15 FT) MINIMUM LENGTH. QTY = 18 NOS.
- III. 5-5/8" OD NOSE TYPE ECCENTRIC REAMER SHOE WITH SIDE CIRCULATION PORTS HAVING SINGLE VALVE, GRADE HIGH COLLAPSE (140 KSI OCTG), VAM HTF NR/TSH WEDGE 513 CONNECTION FOR 5", 18 PPF CASING (DRIFTED FOR 4-1/8" BIT). QTY = 18 NOS.
- IV. LANDING COLLAR C/W PLUG CATCHER INSERT, CATCHER TUBE AND CAP INSERT TYPE PDC DRILLABLE, FOR 5", HIGH COLLAPSE (140 KSI OCTG), 18 PPF CASING (DRIFTED FOR 4-1/8" BIT). QTY = 18 NOS.
- V. SINGLE VALVE FLOAT COLLAR PDC DRILLABLE, FOR 5", HIGH COLLAPSE (140 KSI OCTG), 18 PPF CASING (DRIFTED FOR 4-1/8" BIT). QTY = 18 NOS.
- VI. LINER WIPER PLUG WITH ALUMINUM/BRASS SHEAR OFF RODS FOR 5", HIGH COLLAPSE (140 KSI OCTG), 18 PPF CASING. QTY = 18 NOS.

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- VII. PUMP DOWN PLUG FOR 3-1/2", 13.3 PPF & 5", 19.5 PPF DRILL PIPE (COMBINATION STRING). QTY = 18 NOS.
- VIII. SETTING BALL (1.25" BRONZE/PHENOLIC) FOR ABOVE 5", 18 PPF LINER HANGER. QTY = 18 NOS.
- IX. CROSS OVERS GRADE HIGH COLLAPSE (140 KSI OCTG), VAM HTF NR/TSH WEDGE 513 CONNECTION PIN DOWN FOR 5", 18 PPF CASING (IF REQUIRED) (DRIFTED FOR 4-1/8" BIT). QTY = 18 NOS.

**CONTIGENT SPARE ITEMS FOR GROUP-B, 5" LINER HANGERS**

- 21. TIE BACK PACKER COMPLETE WITH SEAL ASSEMBLY & TIE BACK RECEPTACLE, 15FT LENGTH FOR 5", HIGH COLLAPSE (140 KSI OCTG), 18 PPF (D.D-4-1/8") LINER HANGERS = 01 SET
- 22. SPARE SEAL RINGS FOR ABOVE QUOTED SEAL ASSEMBLY AGAINST SR#20 = 01 SET
- 23. TIE BACK FLOAT COLLAR WITH ORIGICE GROOVES (DRIFTED FOR 4-1/8" BIT) WITH PLUGS FOR 5", HIGH COLLAPSE (140 KSI OCTG), 18 PPF LINER HANGERS = 01 SET
- 24. HOLD DOWN SUB FOR 5", HIGH COLLAPSE (140 KSI OCTG), 18 PPF LINER HANGERS TO SET INSIDE 7" (32 - 35 LBS/FT) CASING (DRIFTED FOR 4-1/8" BIT) = 02 NOS.
- 25. 5-5/8" OD NOSE TYPE ECCENTRIC REAMER SHOE WITH SIDE CIRCULATION PORTS HAVING SINGLE VALVE, GRADE HIGH COLLAPSE (140 KSI OCTG), VAM HTF NR/TSH WEDGE 513 CONNECTION FOR 5", 18 PPF CASING (DRIFTED FOR 4-1/8" BIT). QTY = 02 NOS.
- 26. LANDING COLLAR INSERT TYPE C/W PLUG CATCHER INSERT, CATCHER TUBE AND CAP, PDC DRILLABLE, FOR 5", HIGH COLLAPSE (140 KSI OCTG), 18 PPF CASING (DRIFTED FOR 4-1/8" BIT). QTY = 01 NO.
- 27. SINGLE VALVE FLOAT COLLAR PDC DRILLABLE, FOR 5", HIGH COLLAPSE (140 KSI OCTG), 18 PPF CASING (DRIFTED FOR 4-1/8" BIT). QTY = 01 NO.
- 28. LINER WIPER PLUG WITH ALUMINUM/BRASS SHEAR OFF RODS FOR 5", HIGH COLLAPSE (140 KSI OCTG), 18 PPF CASING (D.D-4-1/8"). QTY = 01 NO.
- 29. PUMP DOWN PLUG FOR 3-1/2", 13.3 PPF & 5", 19.5 PPF DRILL PIPE (COMBINATION STRING). QTY = 01 NO.
- 30. SETTING BALL (1.25" BRONZE/PHENOLIC) FOR ABOVE QUOTED 5", 18 PPF LINER HANGER. QTY = 01 NO.
- 31. CROSS OVERS GRADE HIGH COLLAPSE (140 KSI OCTG), VAM HTF NR/TSH WEDGE 513 CONNECTION PIN DOWN FOR 5", 18 PPF CASING (IF REQUIRED) (DRIFTED FOR 4-1/8" BIT). QTY = 01 NO.
- 32. Services rate as per TOR against Group-B i.e. 5" 18 PPF Liner Hangers as per Financial Bid Format.

➤ **PLEASE NOTE THAT IN CASE BIDDER QUOTES DIFFERENT THREADS FOR 5" LINER HANGER COMPLETE ASSEMBLY THEN TORQUE LIMIT OF QUOTED 5" LINER HANGER COMPLETE ASSEMBLY THREADS SHOULD BE EQUIVALENT OR EXCEEDS TO THE TORQUE VALUE OF REQUIRED THREADS (VAM HTF NR / TSH WEDGE 513).**

**GENERAL TERMS & CONDITIONS AGAINST T.E # PROC-FB/LCB/D-3265/C/2020**

- 1. THE QUOTED LINER HANGER PIPE BODY SHOULD BE IN ACCORDANCE TO API 5CT.
- 2. HANGER SLIPS OF LINER HANGER MUST BE POCKET TYPE.
- 3. BALL SEAT PROVISION SHOULD BE IN WIPER PLUG SYSTEM OR NEAR LINER HANGER.
- 4. ORIGINAL DETAILED TECHNICAL DRAWING IN ASSEMBLED & DIS-ASSEMBLED FORM AND COMPLETE TECHNICAL LITERATURE/SPECIFICATIONS OF OFFERED LINER HANGERS SPECIFYING TYPE & PART NO. MUST BE SUBMITTED WITH THE BID AGAINST EACH GROUP.
- 5. VALID V<sub>0</sub> TOP PACKER TEST CONDUCTED UNDER ISO 14310 FOR GAS TIGHT + AXIAL LOADS + TEMPERATURE CYCLING + ZERO BUBBLE ACCEPTANCE CRITERION FOR 10,000PSI BOTTOM HOLE PRESSURE & 350 °F TEMPERATURE FOR 7" & 5" LINER HANGERS AGAINST EACH GROUP MUST BE PROVIDED WITH BID DOCUMENTS.
- 6. EACH SET OF LINER HANGER SHOULD BE PACKED INDEPENDENTLY IN ONE BOX. CONFIRMATION TO THIS EFFECT MUST BE PROVIDED IN THE OFFER.
- 7. THE SUCCESSFUL BIDDER HAS TO PROVIDE AT LEAST (2) TWO SETS OF RUNNING & SETTING PROCEDURE OF OFFERED LINER HANGER ON COMPLETION OF SHIPMENT TO DRILLING DEPARTMENT (OGDCL). CONFIRMATION TO THIS EFFECT MUST BE PROVIDED IN THE OFFER.
- 8. PART NUMBERS AS PER PACKING LIST AND COUNTRY OF MANUFACTURING WILL BE ENGRAVED ON EACH ITEM OF LINER HANGER EQUIPMENT. CONFIRMATION TO THIS EFFECT MUST BE PROVIDED IN THE OFFER.
- 9. ALL QUOTED ITEMS SHOULD BE BRAND NEW AND UN-USED. CONFIRMATION TO THIS EFFECT MUST BE PROVIDED IN THE OFFER.
- 10. THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FURNISH MILL INSPECTION CERTIFICATE FOR THE SUPPLIED EQUIPMENT WITH FINAL SHIPPING DOCUMENTS. CONFIRMATION TO THIS EFFECT SHOULD BE PROVIDED WITH THE OFFER.
- 11. BIDDER WILL CONFIRM THE PROVISION OF TWO (02) APPLICATION LINER HANGER ENGINEERS WITH FIVE (05) YEARS' EXPERIENCE AS LINER HANGER ENGINEER ALONG WITH TRACK RECORD OF AT LEAST 10 SUCCESSFUL LINER HANGER JOBS DURING THE RECENT 05 YEARS. THE SAID LINER HANGER ENGINEERS WILL BE STATIONED IN PAKISTAN TO PROVIDE THE SOLUTIONS (TORQUE, DRAG & HYDRAULICS ETC) AT BIDDERS COST / AT NO COST TO OGDCL, AS ON & WHEN REQUIRED BASIS. CONFIRMATION TO THIS EFFECT ALONG WITH CV'S AND COPIES OF TEN (10) SUCCESSFUL LINER HANGER JOBS SERVICE TICKETS OF THE ENGINEERS MUST BE ENCLOSED IN BID.



12. THIRD PARTY INSPECTION (TPI) BY INTERNATIONALLY REPUTED INSPECTION COMPANY IS REQUIRED AS PER OIL INDUSTRY PRACTICE. OGDCL WILL ARRANGE PRE- SHIPMENT INSPECTION OF THE EACH CONSIGNMENT AGAINST CALL-OUT PURCHASE ORDERS FROM ANY OF THE FOLLOWING THIRD PARTIES INSPECTION COMPANIES (I) M/S BUREAU VERITAS (II) M/S. SGS (III) M/S. TUV AUSTRIA (IV) M/S. VELOSI (V) M/S. TUV RHEINLAND. BIDDER/MANUFACTURER WILL PROVIDE FULL ASSISTANT TO INSPECTION COMPANY DURING INSPECTION. BIDDER TO CONFIRM THAT THIRD PARTY INSPECTION REPORT VERIFIED BY OGDCL WILL BE PROVIDED WITH THE SHIPPING DOCUMENTS FOR LC ENCASHMENT.

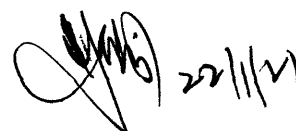
**SCOPE OF WORK FOR TPI WILL BE AS FOLLOWS:-**

- (i) VERIFICATION OF ULTRASONIC INSPECTION OF LINER HANGERS WHERE APPLICABLE.
- (ii) VISUAL THREAD INSPECTION.
- (iii) API DRIFT WHERE APPLICABLE.
- (iv) VERIFICATION OF MILL TEST CERTIFICATES.
- (v) FULL PROCESS INSPECTION FROM THE START OF MANUFACTURING AS PER INDUSTRY **TRACEABILITY LEVEL FIVE (5)** WHICH INCLUDES PERFORMANCE & TEST REPORTS, TRACE MATRIX AND MATERIAL CERTIFICATES.

13. LOCAL BASE OF SERVICE COMPANY SHOULD BE ABLE TO HANDLE THREE (3) TO FOUR (4) JOBS SIMULTANEOUSLY.
14. SAME DAY RATE WILL BE APPLIED FOR LOCAL OR EXPATRIATE LINER HANGER ENGINEERS.
15. BOARDING/LODGING FOR LINER HANGER ENGINEER OTHER THAN THE RIG SITE WILL BE BORNE BY THE CONTRACTOR.
16. OGDCL WILL PROVIDE ONLY TRANSIT / SECURITY COVER FROM AIRPORT / NEAREST PICKUP POINT TO RIG SITE AND BOARDING / LODGING DURING STAY AT RIG SITE.
17. ALL SORT OF INSURANCE OF CONTRACTOR PERSONNEL BE ON CONTRACTOR ACCOUNT.
18. ENGINEER DAY RATE WILL BE APPLICABLE FOR THE PERIOD WHEN HE WILL REPORT AT RIG SITE TILL HE LEAVES THE RIG SITE. NO EXTRA MOBILIZATION/DEMobilIZATION WILL BE PAID. ROAD TRANSPORTATION WILL BE PROVIDED BY THE OGDCL FROM THE NEAREST AIRPORT / PICK UP POINT TO THE LOCATION AND BACK.
19. THE LINER HANGER SERVICES CONTRACT WILL BE EFFECTIVE UP TO UTILIZATION OF ALL THE SUPPLIED LINER HANGER JOBS FROM DATE OF SERVICE ORDER ISSUANCE.
20. BIDDER WILL PROVIDE RENTAL 7" LINER HANGER HYDRAULIC SETTING TOOL (HYDRAULIC SET & HYDRAULIC RELEASE WITH MECHANICAL RELEASE OPTION AS BACK UP) WITH 4-1/2" IF BOX COMPLETE WITH SLICK STINGER INCLUDING DEBRIS BARRIER COMPATIBLE TO SET & RUN ABOVE LINER HANGER AND PACKER SETTING DOG TOOL. SETTING TOOL MUST ALSO INCLUSIVE OF RETRIEVABLE CEMENTING BUSHING WITH HIGH PERFORMANCE RUBBER SEALS SUITABLE FOR 10,000PSI BOTTOM HOLE PRESSURE & 350 °F TEMPERATURE POLISH ROD TYPE STINGER ON RENTAL AS AND WHEN REQUIRED BASIS FOR QUOTED 7" LINER HANGERS.
21. BIDDER WILL PROVIDE RENTAL 5" LINER HANGER HYDRAULIC SETTING TOOL (HYDRAULIC SET & HYDRAULIC RELEASE WITH MECHANICAL RELEASE OPTION AS BACK UP) WITH 3-1/2" IF BOX COMPLETE WITH SLICK STRINGER INCLUDING DEBRIS BARRIER COMPATIBLE TO SET & RUN ABOVE LINER HANGER AND PACKER SETTING DOG TOOL WITH RETRIEVABLE CEMENTING BUSHING WITH HIGH PERFORMANCE RUBBER SEALS SUITABLE FOR 10,000 PSI BOTTOM HOLE PRESSURE & 350 °F TEMPERATURE POLISH ROD TYPE STINGER ON RENTAL AS AND WHEN REQUIRED BASIS FOR QUOTED 5" LINER HANGERS.
22. BIDDER WILL PROVIDE WITNESSING (IF REQUIRED BY OGDCL) OF SURFACE TEST AT HIS LOCAL WORKSHOP BEFORE DISPATCH OF LINER HANGER TO OGDCL RIG SITE.
23. SEPARATE PURCHASE / SERVICE ORDERS WILL BE ISSUED FOR LINER HANGER ASSEMBLIES AND LINER HANGER SERVICES RESPECTIVELY. THE PURCHASE ORDER FOR SERVICES WILL BE PLACED ON THE LOCAL ENTITY/ OFFICE OF THE MANUFACTURER AND WILL BE PAID IN PAK RUPEES AS PER ACTUAL SERVICES RENDERED.
24. FINANCIAL EVALUATION WILL BE CONDUCTED AS PER FINANCIAL EVALUATION FORMAT ATTACHED. IT IS MANDATORY TO QUOTE THE RATES AS PER FINANCIAL BID FORMAT.
25. THE CONTRACTOR WILL BE RESPONSIBLE FOR KEEPING ALL THE RENTAL TOOLS RELEVANT TO THE LINER HANGER ALONG WITH RUNNING SETTING TOOLS FOR ALL THE REQUIRED LINER HANGERS AS SPECIFIED IN EACH GROUP (A, & B).
26. THE MOB DE-MOB OF ENGINEER AND EQUIPMENT TO FIELD LOCATIONS LOCATED IN ALL THE FOUR PROVINCES OF PAKISTAN WILL BE AT THE CONTRACTOR'S END. THE CONTRACTOR WILL BE RESPONSIBLE TO ENSURE THAT THE EQUIPMENT IS AVAILABLE AT LOCATION **IN MAX TWO WORKING DAYS (02 DAYS)**.
27. THE CONTRACTOR WILL CARRY OUT THE LINER HANGER SERVICES JOBS ON ALL RIG LOCATIONS IN PAKISTAN. THE CONTRACTOR WILL NOT REFUSE THE JOB AT ANY LOCATION DUE TO SECURITY CONCERNS, WHERE OGDCL RIGS OPERATE UNDER ITS OWN SECURITY SETUP. IN CASE THE JOB IS REFUSED UNDER ANY CIRCUMSTANCES THEN OGDCL WILL HAVE THE RIGHT TO IMPLEMENT ANY OF THE FOLLOWING:
  - I. CONTRACT CANCELLATION,
  - II. ENCASHMENT OF PERFORMANCE BOND.
  - III. ALL OF THE ABOVE.

THE ABOVE PENALTIES MAY ALSO BE IMPLEMENTED IF OGDCL SUFFERS RIG STAND BY DUE TO THE NON-AVAILABILITY OF LINER HANGER EQUIPMENT & ENGINEER AS PER THE CONTRACT TERMS AND CONDITIONS.

28. INCASE OF FAILURE (OF JOB) OWING TO MAL-FUNCTIONING OF EQUIPMENT OR NEGLIGENCE OF SERVICE ENGINEER AT WELL SITE, ZERO PAYMENT AGAINST SERVICE JOB TICKET OF THAT PARTICULAR WELL WILL BE MADE.



29. ALL "CALL-OUT INSTRUCTIONS" WILL BE SENT TO THE CONTRACTOR THROUGH E-MAIL. ON RECEIPT OF EACH "CALL-OUT INSTRUCTION", CONTRACTOR WILL ACKNOWLEDGE RECEIPT THROUGH RETURN E-MAIL AND WILL MOBILIZE LINER HANGER ENGINEER, RENTAL TOOLS AND EQUIPMENT AS PER THE INSTRUCTIONS GIVEN BY THE OGDCL.
30. FOR SERVICES CONTRACTOR TO SUBMIT THEIR INVOICES ALONG WITH A COPY OF THE LINER HANGER JOB SERVICE TICKET. ALL INVOICES MUST REFER TO SUCH AGREEMENT/ CONTRACT/SERVICE ORDER. INVOICES SHALL BE SUPPORTED BY COMPANY'S CALL-OFF INSTRUCTION, EQUIPMENT DELIVERY TICKET, AND FIELD JOB SERVICE TICKET DULY SIGNED/STAMPED BY OGDCL LOCATION INCHARGE AND ACCOMPANIED BY OTHER RELEVANT DOCUMENTS.
31. THE EVALUATION CRITERIA WILL BE EACH GROUP WISE (GROUP-A & GROUP-B).
32. DELIVERY REQUIRED = WITHIN **120 DAYS** C & F BY SEA KARACHI, AFTER LC OPENING.

**FINANCIAL BID FORMAT AGAINST T.E # PROC-FB/LCB/D-3265/C/2020**  
**LINER HANGER ASSEMBLIES & LINER HANGER ENGINEERING SERVICES**

S.#	Description	UNIT	QTY	Total Cost (US\$) CFR by SEA Karachi.
<b>A</b>	<b><u>LINER HANGER ASSEMBLIES (COMPLETE SET)</u></b>			
	<b><u>GROUP-A</u></b>			
1.	7" HYDRAULIC SET ROTATING AND ROTATABLE LINER HANGER GRADE Q125, 32 PPF, VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONNECTION TO HANG 7" LINER (LENGTH +/-1500 METERS) INSIDE 9-5/8", 47 – 53.5 PPF CASING ALONG WITH COLLAR & CROSS OVERS (IF REQUIRED). (DRIFTED FOR 6" BIT). <b><u>FROM SR # 1 (I TO IX) OF SOR.</u></b>	SETS	15	
2.	7" HYDRAULIC SET ROTATING AND ROTATABLE LINER HANGER, GRADE HIGH COLLAPSE (140 KSI OCTG) , 35 PPF, VAM 21/TSH BLUE/VA SUPERIOR/JFE LION CONNECTION TO HANG 7" LINER (LENGTH +/-1500 METERS) INSIDE 9-5/8", 47 PPF - 53.5 PPF CASING ALONG WITH COLLAR & CROSS OVERS (IF REQUIRED) (DRIFTED FOR 5-7/8" BIT). <b><u>FROM SR # 2 (a TO i) OF SOR.</u></b>	SETS	13	
3.	CONTIGENT SPARE ITEMS FOR GROUP-A, 7" LINER HANGERS (32 AND 35 PPF) <b><u>FROM SR # 3 TO 18 OF SOR.</u></b>	LOT	01	
<b>GROUP-A TOTAL EQUIPMENT COST (SR # 1-3)</b>				<b>US \$ C&amp; F BY SEA KARACHI.</b>
<b>B</b>	<b><u>LINER HANGER SUPERVISOR/ENGINEER SERVICES</u></b>			
	<b><u>GROUP-A</u></b>			US \$
1.	Liner hanger Engineer services day rate (7 days per job)	PER DAY	196 DAYS	
2.	Service engineer Mob & De-Mob charges per job at any OGDCL Rig.	Per job	28 jobs	
3.	Running/ setting Tools-Mobilization/Demobilization charges per job at any OGDCL Rig.	Per job	28 Jobs	
4.	Running/ setting Tools-operational Charges, assembly & test charges per job	Per job	28 jobs	
5.	Running/ setting Tools Redress charges per job	Per job	28 jobs	
6.	Cement Head- Rental Charges (If required)	Per job	28 jobs	



7.	Polish Mill Assembly (Top dress Mill & Polish Mill)-Rental per job. (If required)	Per job	28 jobs	
<b>GROUP –A TOTAL SERVICES COST (SR#1-7)</b>				US \$
<b>GROUP-A TOTAL COST (MATERIAL + SERVICES)</b>				US \$
<b>A</b>	<b><u>LINER HANGER ASSEMBLIES (COMPLETE SET)</u></b>			
	<b><u>GROUP-B</u></b>			
1.	5" HYDRAULIC SET ROTATING AND ROTATABLE LINER HANGER GRADE HIGH COLLAPSE (140 KSI OCTG), 18 LBS/FT, VAM HTF NR/TSH WEDGE 513 CONNECTION TO HANG 5" LINER (LENGTH +- 1500 M) INSIDE 7", (32 -35 LBS/FT) CASING ALONG WITH COLLAR & CROSS OVERS (IF REQUIRED). (DRIFTED FOR 4-1/8" BIT). <b><u>FROM SR # 20 ( I TO IX) OF SOR.</u></b>	SETS	18	
2.	CONTIGENT SPARE ITEMS FOR GROUP-B, 5" LINER HANGERS <b><u>FROM SR # 21 TO 31 OF SOR.</u></b>	LOT	01	
<b>GROUP-B TOTAL EQUIPMENT COST (SR#1 &amp; 2)</b>				US \$ C & F BY SEA KARACHI.
<b>B</b>	<b><u>LINER HANGER SUPERVISOR/ENGINEER SERVICES</u></b>			
	<b><u>GROUP-B</u></b>			US \$
1.	Liner hanger Engineer services day rate (7 days per job)	PER DAY	126 DAYS	
2.	Service engineer Mob &De-Mob charges per job at any OGDCL Rig.	Per job	18 jobs	
3.	Running/ setting Tools-Mobilization/Demobilization charges per job at any OGDCL Rig.	Per job	18 Jobs	
4.	Running/ setting Tools-operational Charges, assembly & test charges per job	Per job	18 jobs	
5.	Running/ setting Tools Redress charges per job	Per job	18 jobs	
6.	Cement Head- Rental Charges (If required)	Per job	18 jobs	
7.	Polish Mill Assembly (Top dress Mill & Polish Mill)-Rental per job. (If required)	Per job	18 jobs	
<b>GROUP –B TOTAL SERVICES COST (SR# 1-7)</b>				US \$
<b>GROUP-B TOTAL COST (MATERIAL + SERVICES)</b>				US \$

**Note:**

- Day = 24 Hrs, Quantum of Jobs = 28 + 18 = 46 jobs
- The Payment will be made as per actual days/services rendered at any OGDCL well on as and when required basis, however Liner Hanger Engineer day rate charges is capped to maximum 07 days per job. In case of extra days, it will be considered as FOC.
- All the Prices must be inclusive of all types of taxes and duties except provincial sales tax.
- Bidder must quote prices for all individual items from Sr # 1 to 32 of Schedule of requirement (SOR).

