

**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 4-1/2" LINER HANGERS

Tender Enquiry No PROC-FB/CB/DR/G/D-5071/2021

Due Date

Evaluation Criteria FULL

**SCHEDULE OF REQUIREMENT**

Sr No	Description	Unit	Quantity	Unit Price (FOB)	Total Price (FOB)	Unit Price C & F BY SEA	Total Price C & F BY SEA	Deviated From Tender Spec. If Any
1	4-1/2" HYDRAULIC SET ROTATING AND ROTATABLE LINER HANGER, MATERIAL GRADE ALLOY 2550 (NICKEL BAE ALLOY, 23 - 26 % CHROME, MINIMUM 125 KSI YIELD STRENGTH), 17 LBS/FT. VAM 21 CONNECTION, (SR# 1.1 TO 1.8), DETAIL DESCRIPTION ATTACHED.	Sets	2					
2	Complete set of Tie Back Seal Assembly with Minimum 20 FT length compatible to quoted 4-1/2" Liner Hanger against Sr # 1, MATERIAL GRADE ALLOY 2550 (NICKEL BAE ALLOY, 23 - 26 % CHROME, MINIMUM 125 KSI YIELD STRENGTH), DETAIL ATTACHED.	Sets	2					
3	Complete set of Spare Seals/Redress kits for above quoted Tie Back Seal Assembly against Sr # 02.	Sets	2					
4	Centralizers for 4-1/2" Casing x 6" hole, Variform 4-1/2" X 6" Rotating Type Centralizers or equivalent	Number	200					
5	Stop Collars for above quoted 4-1/2" Centralizers against SR # 4.	Number	400					
6	Cross overs, Seamless Tubing, 4-1/2", 17 PPF, SUPER 13 CHROME, MATERIAL 125 KSI, VAM 21 PIN CONNECTION X 4-1/2", 19.2 PPF, HYDRIL PH-6 CONNECTION.	Number	2					
7	4-1/2" LINER HANGER ENGINEERING SERVICES As Per TOR.	Number	1					

- Note:**
- BID BOND OF US \$ 14000/- EQUIVALENT PAK RUPEES MUST BE SUBMITTED WITH THE TECHNICAL BID WITH VALIDITY OF 210 DAYS BEYOND OPENING DATE.
  - BID VALIDITY IS 180 DAYS BEYOND OPENING DATE.
  - BIDDING PROCEDURE IS "SINGLE STAGE TWO ENVELOPE" MASTER SET OF TENDER DOCUMENT IS AVAILABLE ON OGDCL'S WEBSITE.
  - EVALUATION CRITERIA IS FULL CONSIGNMENT WISE.
  - DELIVERY PERIOD IS 90 DAYS AFTER ESTABLISHMENT OF LC.



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**DETAILED SOR FOR 4-1/2" LINER HANGERS & ACCESSORIES ALONG WITH SERVICES (KUC-01 HORIZONTAL WELL)**

1. 4-1/2" HYDRAULIC SET ROTATING AND ROTATABLE LINER HANGER , MATERIAL GRADE ALLOY 2550 (NICKEL BAE ALLOY, 23 – 26 % CHROME, MINIMUM 125 KSI YIELD STRENGTH) , 17 LBS/FT, VAM 21 PREMIUM CONNECTION TO HANG 4-1/2" LINER (LENGTH +- 1000 M) INSIDE 7", P-110, 32 LBS/FT CASING ALONG WITH COLLAR & CROSS OVERS (IF REQUIRED). (DRIFT 3.615"). QTY = 02 SETS COMPLETE

**CONSISTING OF THE FOLLOWING ITEMS:-**


- 1.1 HYDRAULIC SET POCKET (PROTECTED) SLIP ROTATING & ROTATABLE LINER HANGER WITH HIGH PERFORMANCE TOP PACKER TESTED AS GAS TIGHT UNDER ISO 14310 VO FOR EFFECTIVE ANNULUS SEALING WITH HIGH PERFORMANCE RUBBER SEALS SUITABLE FOR 15,000PSI BOTTOM HOLE PRESSURE & 350 DEG. F TEMPERATURE, 4-1/2", MATERIAL GRADE ALLOY 2550 (NICKEL BAE ALLOY, 23 – 26 % CHROME, MINIMUM 125 KSI YIELD STRENGTH), 17 LBS/FT, VAM 21 PREMIUM CONNECTION TO HANG 4-1/2" LINER (LENGTH +- 1000 M) INSIDE 7", P-110, 32 LBS/FT CASING. (DRIFT 3.615"). QTY = 02 NOS EACH (LINER HANGER + LINER PACKER)
- 1.2 HOLD DOWN SUB FOR ABOVE QUOTED LINER HANGER, 4-1/2", MATERIAL GRADE ALLOY 2550 (NICKEL BAE ALLOY, 23 – 26 % CHROME, MINIMUM 125 KSI YIELD STRENGTH) , 17 LBS/FT, VAM 21 PREMIUM CONNECTION TO HANG 4-1/2" LINER (LENGTH +- 1000 M) INSIDE 7", P-110, 32 LBS/FT CASING (DRIFT 3.615"). QTY = 02 NOS
- 1.3 TIE BACK RECEPTACLE (PBR) (COMPATIBLE TO ITEM AT S.NO. 1.1), 4-1/2", 125 KSI, 17 PPF, MATERIAL GRADE SAME AS QUOTED AGAINST SR # 1.1 WITH **20 FT** MINIMUM LENGTH. QTY = 02 NOS.
- 1.4 5" REAMER SHOE WITH TWO CHECK VALVES, SUPER 13 CHROME OR SUPERIOR MATERIAL , YIELD STRENGTH EQUIVALENT TO 140 KSI, VAM 21 CONNECTION. (DRIFT 3.615"). QTY = 02 NOS.
- 1.5 LANDING COLLAR INSERT TYPE PDC DRILLABLE, MATERIAL GRADE SAME AS QUOTED AGAINST SR # 1.1 FOR 4-1/2", 17 PPF LINER (DRIFT 3.615"). QTY = 02 NOS.
- 1.6 LINER WIPER PLUG WITH ALUMINUM/BRASS SHEAR OFF RODS FOR 4-1/2", 17 PPF LINER OR OTHER OPTION TO MEET DOWNHOLE REQUIREMENTS. QTY = 02 NOS.
- 1.7 PUMP DOWN PLUG FOR 3-1/2", 13.3 PPF & 5", 19.5 PPF DRILL PIPE (COMBINATION STRING). QTY = 02 NOS.
- 1.8 SETTING BALL (BRONZE/PHENOLIC) FOR ABOVE 4-1/2", 17 PPF LINER HANGER. QTY = 02 NOS.

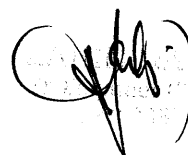
**NOTE: PLEASE MAKE SURE THAT EACH COMPONENT (METAL BODY, MANDREL, CYLINDER, ELASTOMER ETC) OF QUOTED 4-1/2" LINER HANGER SYSTEM RATING SHOULD BE AT LEAST MIN 15K WITH NO WEAK POINT.**

2. Complete set of Tie Back Seal Assembly with Minimum 20 FT length compatible to quoted 4-1/2" Liner Hanger against Sr # 1, MATERIAL GRADE ALLOY 2550 (NICKEL BAE ALLOY, 23 – 26 % CHROME, MINIMUM 125 KSI YIELD STRENGTH) = 02 sets complete
3. Complete set of Spare Seals/Redress kits for above quoted Tie Back Seal Assembly against Sr # 02 = 02 Sets
4. Centralizers for 4-1/2" Casing x 6" hole, Variform 4-1/2" X 6" Rotating Type Centralizers or equivalent = QTY = 200 NOS.
5. Stop Collars for above quoted 4-1/2" Centralizers against SR # 4. QTY = 400 NOS
6. Cross overs, Seamless Tubing, 4-1/2", 17 PPF, SUPER 13 CHROME, MATERIAL 125 KSI, VAM 21 PIN CONNECTION X 4-1/2", 19.2 PPF, HYDRIL PH-6 CONNECTION. QTY = 02 NOS.
7. Liner Hanger Engineering Services as per Financial Bid Format.

**GENERAL TERMS & CONDITIONS:**

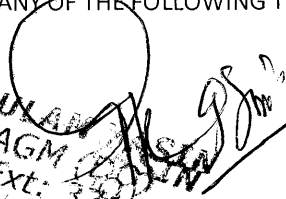
1. THE QUOTED LINER HANGER PIPE BODY SHOULD BE IN ACCORDANCE TO API 5CT.
2. THE MANUFACTURING PLANT(S) MUST BE CERTIFIED BY API UNDER SPECS. API 5CT FOR THE LAST 5 CONSECUTIVE YEARS, IN THIS REGARD BIDDERS TO SUBMIT ACTIVE & LAST CONSECUTIVE 05 YEARS BACK API 5CT CERTIFICATES. FOR THIS TENDER THE FIVE YEAR PERIOD WILL BE CONSIDERED FROM THE DATE OF TENDER OPENING (TECHNICAL BID). THE MANUFACTURING PLANT(S) MUST BE CERTIFIED BY API UNDER SPECS. API 11D1 FOR THE LAST 5 CONSECUTIVE YEARS, THE CERTIFICATES SHOULD CONFIRM THE V<sub>0</sub> TESTING CAPABILITY OF THE PLANT. THE BIDDER TO PROVIDE COPIES OF THE RELEVANT API CERTIFICATES AS A PROOF (NO BREAKS WILL BE ACCEPTABLE).
3. MANUFACTURER OF THE LINER HANGER MUST HAVE V<sub>0</sub> CERTIFICATION FOR LINER TOP PACKERS FROM THE LAST 05 YEARS, IN THIS REGARD MANUFACTURER TO SUBMIT V<sub>0</sub> CERTIFICATION WITH THE TECHNICAL BID. (PLEASE NOTE THAT API 5CT, 11D1 & V<sub>0</sub> CERTIFICATION PROVIDED MUST BE OF SAME MANUFACTURER (SINGLE MANUFACTURER).
4. HANGER SLIPS OF LINER HANGER MUST BE POCKET TYPE.)


  
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5. BALL SEAT PROVISION SHOULD BE IN WIPER PLUG SYSTEM OR ALTERNATE PROVISION OF BALL SEATING ABOVE LANDING COLLAR NEAR LINER HANGER OR OTHER OPTION TO MEET DOWNHOLE REQUIREMENTS.
6. ORIGINAL DETAILED TECHNICAL DRAWING IN ASSEMBLED & DIS-ASSEMBLED FORM AND COMPLETE TECHNICAL LITERATURE OF OFFERED LINER HANGERS SPECIFYING TYPE & PART NO. MUST BE SUBMITTED WITH THE TECHNICAL BID AGAINST EACH GROUP.
7. VALID V<sub>0</sub> TOP PACKER TEST CONDUCTED UNDER ISO 14310 FOR GAS TIGHT + AXIAL LOADS + TEMPERATURE CYCLING + ZERO BUBBLE ACCEPTANCE CRITERION FOR 15,000PSI BOTTOM HOLE PRESSURE & 350 DEG. F TEMPERATURE FOR 4-1/2" LINER HANGERS MUST BE PROVIDED WITH BID DOCUMENTS.
8. EACH SET OF LINER HANGER PREFERRABLY SHOULD BE PACKED INDEPENDENTLY IN ONE BOX. CONFIRMATION TO THIS EFFECT MUST BE PROVIDED IN THE TECHNICAL OFFER.
9. 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 TECHNICAL OFFER.
10. 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 TECHNICAL OFFER.
11. ALL ITEMS SHOULD BE BRAND NEW AND UN-USED. CONFIRMATION TO THIS EFFECT MUST BE PROVIDED IN THE TECHNICAL OFFER.
12. 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 TECHNICAL OFFER.
13. IF MANUFACTURER HAS NOT ALREADY SUPPLIED LINER HANGERS TO OGDCL, THEN MANUFACTURER WILL PROVIDE 03 (THREE) NUMBERS SATISFACTORY PERFORMANCE CERTIFICATES OF QUOTED/ SIMILAR LINER HANGERS ISSUED BY AUTHORIZED OFFICIAL(S) OF AT LEAST THREE (03) DIFFERENT MAJOR INTERNATIONAL E & P COMPANIES LIKE PDO, KOC, SHELL, BP, ENI, MOL, TOTAL OR EQUIVALENT IN FAVOUR OF MANUFACTURER (OTHER THAN MANUFACTURER(S) OWN COUNTRY) ALONG WITH PURCHASE ORDER OF SAME COMPANIES FOR SAID LINER HANGERS WITH THE TECHNICAL OFFER. IN CASE THE MANUFACTURER HAS SUPPLIED THE LINER HANGER TO OGDCL THEN ITS PERFORMANCE WILL BE EVALUATED ON BASIS OF IN HOUSE REPORTS. THE PERFORMANCE CERTIFICATES MUST BE ON COMPANY LETTER HEAD OF ISSUING COMPANIES ALONG WITH THE OFFICIAL EMAIL/ FAX NUMBERS OF ISSUING AUTHORITIES FOR VERIFICATION.
14. MANUFACTURER MUST HAVE SUPPLIED AT LEAST 20 SETS OF 4-1/2" LINER HANGERS TO INTERNATIONAL E & P COMPANIES DURING LAST 5 YEARS. MANUFACTURER MUST HAVE MINIMUM 5 (FIVE) YEARS' EXPERIENCE IN MANUFACTURING OF LINER HANGERS AND ITS ACCESSORIES. IN THIS REGARD BIDDER(S) SHOULD PROVIDE COMPREHENSIVE DETAILED SUPPLY RECORD OF LAST CONSECUTIVE 5 (FIVE) YEARS PREFERABLY OF EACH YEAR TO THE INTERNATIONAL E & P COMPANIES OPERATING IN OTHER THAN MANUFACTURERS OWN COUNTRY. THE SUPPLY RECORD SHOULD CONTAIN SALES RECORD OF OFFERED SIZES & WEIGHT OF LINER HANGERS, QUANTITY, AND NAME OF CUSTOMER / COUNTRY, (SUPPLY RECORD OF IRRELEVANT ITEMS OTHER THAN LINER HANGERS SHOULD NOT BE PROVIDED) SHOULD BE SUBMITTED WITH THE TECHNICAL OFFER. THE SUPPLY RECORD MUST BE ON COMPANY LETTER HEAD, SHOWING THE NAME AND CONTACT DETAILS (E-MAIL & FAX NUMBER) OF THE SIGNING AUTHORITY
15. BIDDER(S)/ MANUFACTURER(S) ARE REQUIRED TO SUBMIT COMPLETE SPECIFICATIONS OF THE OFFERED LINER HANGER(S) AS PER THEIR MANUFACTURER STANDARD
16. THE MANUFACTURER(S) SHOULD HAVE THEIR WORK SHOP FACILITY IN PAKISTAN. IN CASE THE MANUFACTURER DO NOT HAVE THE LINER HANGER WORKSHOP FACILITY WITHIN PAKISTAN, THEN MANUFACTURER TO PROVIDE AFFIDAVIT ALONG WITH THE TECHNICAL BID ENSURING ESTABLISHMENT OF LINER HANGER WORKSHOP IN PAKISTAN WITHIN SIXTY (60) DAYS AFTER THE ISSUANCE OF LOI( LETTER OF INTENT). CONFIRMATION TO THIS EFFECT SHOULD BE PROVIDED WITH THE TECHNICAL OFFER.
17. 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 FOR 5" OR 4-1/2" LINER HANGERS 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 TECHNICAL BID.
18. BIDDER(S) HAS TO CONFIRM UNCONDITIONALLY ON A SEPARATE LETTER THAT THE SERVICES OF LINER HANGER ENGINEER WILL BE PROVIDED AT ANY LOCATION IN PAKISTAN WHERE OGDCL OPERATES UNDER OGDCL SECURITY ARRANGEMENTS. THIS CONDITION IS MANDATORY.
19. THIRD PARTY INSPECTION (TPI) BY INTERNATIONALLY REPUTED INSPECTION COMPANY IS REQUIRED AS PER OIL INDUSTRY PRACTICE. OGDCL WILL ARRANGE PRE- SHIPMENT INSPECTION OF THE CONSIGNMENT AGAINST ISSUED PURCHASE ORDER FROM ANY OF THE FOLLOWING THIRD PARTIES INSPECTION COMPANIES (I) M/S BUREAU VERITAS (II) M/S. SGS (III) M/S.

  
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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.

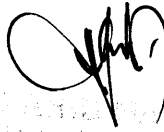
**SCOPE OF WORK FOR TPI WILL BE AS FOLLOWS BUT WILL NOT BE LIMITED TO THESE:**


- (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 RAW MATERIAL CERTIFICATES.

- 20. SAME DAY RATE WILL BE APPLIED FOR LOCAL OR EXPATRIATE LINER HANGER ENGINEERS.
- 21. BOARDING/LODGING FOR LINER HANGER ENGINEER OTHER THAN THE RIG SITE WILL BE BORNE BY THE CONTRACTOR.
- 22. OGDCL WILL PROVIDE ONLY TRANSIT / SECURITY COVER FROM AIRPORT / NEAREST PICKUP POINT TO RIG SITE AND BOARDING / LODGING DURING STAY AT RIG SITE.
- 23. ALL SORT OF INSURANCE OF CONTRACTOR PERSONNEL BE ON CONTRACTOR ACCOUNT.
- 24. 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.
- 25. THE LINER HANGER SERVICES CONTRACT WILL BE EFFECTIVE UP TO UTILIZATION OF ALL THE SUPPLIED LINER HANGERS FROM DATE OF SERVICE ORDER ISSUANCE.
- 26. BIDDER WILL PROVIDE RENTAL 4-1/2" LINER HANGER HYDRAULIC SETTING TOOL (HYDRAULIC SET & HYDRAULIC RELEASE WITH MECHANICAL RELEASE OPTION AS BACK UP) 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 15,000PSI BOTTOM HOLE PRESSURE & 350 DEG. F TEMPERATURE, POLISH ROD TYPE STINGER, ON RENTAL AS AND WHEN REQUIRED BASIS FOR 4-1/2" LINER HANGERS.
- 27. 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.
- 28. FINANCIAL EVALUATION WILL BE CONDUCTED AS PER FINANCIAL EVALUATION FORMAT ATTACHED. IT IS MANDATORY TO QUOTE THE RATES AS PER FINANCIAL BID FORMAT.
- 29. 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)**.
- 30. 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.
- 31. 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.
- 32. ALL THE REQUIRED SUPPORTING DOCUMENTS MUST BE ATTACHED WITH THE TECHNICAL BID. ANY TECHNICAL BID WITHOUT THE REQUIRED SUPPORTING DOCUMENTS OR NOT FULFILLING THE ABOVE CONDITIONS, WILL NOT BE CONSIDERED FOR TECHNICAL EVALUATION.

  
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**FINANCIAL BID FORMAT**  
**FOR PROVISION OF 4-1/2" 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>			
1.	4-1/2" HYDRAULIC SET ROTATING AND ROTATABLE LINER HANGER , MATERIAL GRADE ALLOY 2550 (NICKEL BAE ALLOY, 23 – 26 % CHROME, MINIMUM 125 KSI YIELD STRENGTH) , 17 LBS/FT, VAM 21 PREMIUM CONNECTION TO HANG 4-1/2" LINER (LENGTH +- 1000 M) INSIDE 7", P-110, 32 LBS/FT CASING ALONG WITH COLLAR & CROSS OVERS (IF REQUIRED). (DRIFT 3.615"). ( SR # 1.1 TO 1.8)	SETS	02	
2.	Complete set of Tie Back Seal Assembly with Minimum 20 FT length compatible to quoted 4-1/2" Liner Hanger against Sr # 1, MATERIAL GRADE ALLOY 2550 (NICKEL BAE ALLOY, 23 – 26 % CHROME, MINIMUM 125 KSI YIELD STRENGTH)	SETS	02	
3.	Complete set of Spare Seals/Redress kits for above quoted Tie Back Seal Assembly against Sr # 02.	SETS	02	
4.	Centralizers for 4-1/2" Casing x 6" hole, Variform 4-1/2" X 6" Rotating Type Centralizers or equivalent	NOS	200	
5.	Stop Collars for above quoted 4-1/2" Centralizers against SR # 4. QTY = 400 NOS	NOS	400	
6.	Cross overs, Seamless Tubing, 4-1/2", 17 PPF, SUPER 13 CHROME, MATERIAL 125 KSI, VAM 21 PIN CONNECTION X 4-1/2", 19.2 PPF, HYDRIL PH-6 CONN.			
<b>B</b>	<b><u>LINER HANGER SUPERVISOR/ENGINEER SERVICES</u></b>			
1.	Liner hanger Engineer services day rate (10 days per job)	Per day	20 days	
<b>C</b>	<b><u>MOBILIZATION &amp; DE-MOBILIZATION CHARGES FOR SERVICES ENGINEER.</u></b>			
1.	Service engineer Mob & De-Mob charges per job at any OGDCL Rig.	Per job	02 jobs	
<b>D</b>	<b><u>RUNNING/ SETTING TOOLS CHARGES</u></b>			
1.	Running/ setting Tools-Mobilization/Demobilization charges per job at any OGDCL Rig.	Per job	02 Jobs	
2.	Running/ setting Tools-operational Charges, assembly & test charges per job	Per job	02 jobs	
3.	Running/ setting Tools Redress charges per job	Per job	02 jobs	
4.	Cement Head- Rental Charges (If required)	Per job	02 jobs	
5.	Polish Mill Assembly (Top dress Mill & Polish Mill)-Rental per job. (If required)	Per job	02 jobs	

**Note:**

- Day = 24 Hrs, Quantum of Jobs = 02 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 10 days per job. In case of extra days, it will be FOC.
- All the Prices must be inclusive of all types of taxes and duties except provincial sales tax.

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