

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 BIT SUBS & CROSS OVERS
 Tender Enquiry No PROC-FB/CB/DRLG/D-4978/2021
 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	BIT-SUBSTITUTE, 9-1/2" OD X 3" ID X 36" LENGTH. 7-5/8" X 7-5/8" CONNECTION,DETAIL DESCRIPTION ATTACHED.	Number	8					
2	BIT-SUBSTITUTE, 8" OD X 2-13/16" ID X 36" LENGTH. 6-5/8" X 6-5/8" CONNECTION,DETAIL DESCRIPTION ATTACHED.	Number	10					
3	BIT-SUBSTITUTE, 6-1/4" OD X 2-1/4" ID X 36" LENGTH. DETAIL DESCRIPTION ATTACHED.	Number	12					
4	BIT-SUBSTITUTE, 4-3/4" OD X 1-1/2" ID X 36" LENGTH. DETAIL DESCRIPTION ATTACHED.	Number	12					
5	BIT-SUB, 3-1/8" OD X 1-1/4" ID X 36" LENGTH. DETAIL DESCRIPTION ATTACHED.	Number	6					
6	X-OVER SUB, 9-1/2" OD X 2-13/16" ID, 36" LENGTH. DETAIL DESCRIPTION ATTACHED.	Number	8					
7	X-OVER SUB, 8" OD X 2-13/16" ID, 36" LENGTH. DETAIL DESCRIPTION ATTACHED.	Number	8					
8	X-OVER SUB, 9-1/2" OD X 3" ID, 36" LENGTH. DETAIL DESCRIPTION ATTACHED.	Number	8					
9	X-OVER SUB, 8" OD X 2-13/16" ID, 36" LENGTH. DETAIL DESCRIPTION ATTACHED.	Number	10					
10	X-OVER SUB, 6-5/8" OD X 2-13/16" ID, 36" LENGTH. DETAIL DESCRIPTION ATTACHED.	Number	10					
11	X-OVER SUB, 4-3/4" OD X 2-1/8" ID, 36" LENGTH. DETAIL DESCRIPTION ATTACHED.	Number	5					
12	X-OVER SUB, 3-3/8" OD X 1-1/4" ID, 36" LENGTH. DETAIL DESCRIPTION ATTACHED.	Number	7					
13	X-OVER SUB, 4-1/8" OD X 1-1/4" ID, 36" LENGTH. DETAIL DESCRIPTION ATTACHED.	Number	5					
14	X-OVER SUB, 6-5/8" OD X 2-11/16" ID, 36" LENGTH. DETAIL DESCRIPTION ATTACHED.	Number	12					
15	X-OVER SUB, 4-3/4" OD X 1-1/2" ID, 36" LENGTH. DETAIL DESCRIPTION ATTACHED.	Number	5					
16	X-OVER SUB, 4-3/4" OD X 2-1/8" ID, 36" LENGTH. BOTTOM CONNECTION NCS1. DETAIL DESCRIPTION ATTACHED.	Number	4					
17	X-OVER SUB, 6-5/8" OD X 2-11/16" ID, 36" LENGTH. BOTTOM CONNECTION NCS0. DETAIL DESCRIPTION ATTACHED.	Number	8					
18	X-OVER SUB, 6-3/4" OD X 2-13/16" ID, 36" LENGTH. DETAIL DESCRIPTION ATTACHED.	Number	8					
19	X-OVER SUB, 8" OD X 2-11/16" ID, 36" LENGTH. DETAIL DESCRIPTION ATTACHED.	Number	8					
20	X-OVER SUB, 6" OD X 2" ID, 36" LENGTH. DETAIL DESCRIPTION ATTACHED.	Number	8					
21	X-OVER SUB, 4-3/4" OD X 1-3/4" ID, 36" LENGTH. DETAIL DESCRIPTION ATTACHED.	Number	8					
22	X-OVER SUB, 4-3/4" OD X 1-3/4" ID, 36" LENGTH. BOTTOM CONNECTION NCS1. DETAIL DESCRIPTION ATTACHED.	Number	8					
23	STRAIGHT PUMP IN SUB, 4-3/4" OD X 1-13/16" ID, 24" LENGTH. DETAIL DESCRIPTION ATTACHED.	Number	8					
24	STRAIGHT PUMP IN SUB, 6-5/8" OD X 1-13/16" ID, 24" LENGTH. DETAIL DESCRIPTION ATTACHED.	Number	8					

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 BIT SUBS & CROSS OVERS

Tender Enquiry No PROC-FB/CB/DRLG/D-4978/2021

Due Date

Evaluation Criteria FULL

25	STRAIGHT X-OVER SUB, 9-1/2" OD X 3" ID, 36" LENGTH. DETAIL DESCRIPTION ATTACHED.	Number	8
26	STRAIGHT X-OVER SUB, 8" OD X 2-13/16" ID, 36" LENGTH. DETAIL DESCRIPTION ATTACHED.	Number	8
27	STRAIGHT X-OVER SUB, 6-5/8" OD X 3" ID, 36" LENGTH. DETAIL DESCRIPTION ATTACHED.	Number	8

- Note:**
- i. BID BOND OF US \$ 7000/- EQUIVALENT PAK RUPEES MUST BE SUBMITTED WITH THE TECHNICAL BID WITH VALIDITY OF 150 DAYS BEYOND OPENING DATE.
 - ii. BID VALIDITY IS 120 DAYS BEYOND OPENING DATE.
 - iii. BIDDING PROCEDURE IS "SINGLE STAGE TWO ENVELOPE" MASTER SET OF TENDER DOCUMENT IS AVAILABLE ON OGDCL'S WEBSITE.
 - iv. EVALUATION CRITERIA IS FULL CONSIGNMENT WISE.



10

SCHEDULE OF REQUIREMENT (SOR) FOR BITSUBS & CROSS OVERS

BIT SUBS:

MATERIAL OF BIT SUBS & CROSS OVERS SHOULD BE STEEL GRADE AISI 4145H MODIFIED ALLOY STEEL BARS, FULL LENGTH HEAT TREATED FOR 285-341 BHN, MINIMUM IMPACT TEST VALUE 40 FT-LB (AVERAGE) & MINIMUM SINGLE VALUE 35 FT-LB @ 70 °F(+/- 5°F) AND ALL OTHER PHYSICAL PROPERTIES IN ACCORDANCE WITH API SPECS 7-1, COLD ROLLED THREAD ROOTS AND PHOSPHATIZED CONNECTIONS, COMPLETE WITH HEAVY DUTY PLASTIC THREAD PROTECTORS & APPLIED ZN50 OR EQUIVALENT THREAD COMPOUND. OUTSIDE STANDARD COATING FOR RUST PROTECTION. MATERIAL FOR BIT SUBS & CROSS OVERS SHOULD HAVE MINIMUM YIELD STRENGTH 110-120 KSI & MINIMUM TENSILE STRENGTH 140 KSI.

1. BIT SUB, STRAIGHT AS PER API 7-1, 9-1/2" OD X 3" ID, 36" LONG, 7-5/8" API REG BOX DOWN X 7-5/8" API REG BOX UP CONNECTION, BOTTOM BOX BORED FOR FLOAT VALVES (5F-6R) & TOP BORED BACK BOX, COLD ROLLED THREAD ROOTS AND PHOSPHATIZED CONNECTIONS, WITH HEAVY DUTY PLASTIC THREAD PROTECTORS. QUANTITY REQUIRED = **08 NOS.**
2. BIT SUB, STRAIGHT AS PER API 7-1, 8" OD X 2-13/16" ID, 36" LONG, 6-5/8" API REG BOX DOWN X 6-5/8" API REG BOX UP CONNECTION, BOTTOM BOX BORED FOR FLOAT VALVES (5F-6R) & TOP BORED BACK BOX, COLD ROLLED THREAD ROOTS AND PHOSPHATIZED CONNECTIONS, WITH HEAVY DUTY PLASTIC THREAD PROTECTORS. QUANTITY REQUIRED = **10 NOS.**
3. BIT SUB, STRAIGHT AS PER API 7-1, 6-1/4" OD X 2-1/4" ID, 36" LONG, 4-1/2" API REG BOX DOWN X 4" IF BOX UP CONNECTION, BOTTOM BOX BORED FOR FLOAT VALVES (4R) & TOP BORED BACK BOX, COLD ROLLED THREAD ROOTS AND PHOSPHATIZED CONNECTIONS, WITH HEAVY DUTY PLASTIC THREAD PROTECTORS. QUANTITY REQUIRED = **12 NOS.**
4. BIT SUB, STRAIGHT AS PER API 7-1, 4-3/4" OD X 1-1/2" ID, 36" LONG, 3-1/2" API REG BOX DOWN X 3-1/2" IF BOX UP CONNECTION, BOTTOM BOX BORED FOR FLOAT VALVES (2F-3R) & TOP BORED BACK BOX, COLD ROLLED THREAD ROOTS AND PHOSPHATIZED CONNECTIONS, WITH HEAVY DUTY PLASTIC THREAD PROTECTORS. QUANTITY REQUIRED = **12 NOS.**
5. BIT SUB AS PER API 7-1, 3-1/8" OD X 1-1/4" ID, 36" LONG, 2-3/8" API REG BOX DOWN X 2-3/8" API REG BOX UP CONNECTION, BOTTOM BOX BORED FOR FLOAT VALVES (1R) & TOP STANDARD BOX, COLD ROLLED THREAD ROOTS AND PHOSPHATIZED CONNECTIONS, WITH HEAVY DUTY PLASTIC THREAD PROTECTORS. QUANTITY REQUIRED = **06 NOS.**

X-OVERS

6. REDUCED/BOTTLENECK CROSS OVER SUB, TOP-FISHNECK, AS PER API 7-1, DRILL COLLAR TO DRILL COLLAR, MAJOR OD 9-1/2" X 2-13/16" ID, 36" LONG, BOTTOM CONNECTION 7-5/8" API REG PIN X REDUCED OD 8" X 2-13/16" ID, TOP CONNECTION 6-5/8" API REG BOX, BOX BOREBACK & 1 INCH STRESS RELIEF GROOVE PIN, REDUCED OD TRANSITION RADIUS 3 INCH WITH 45 DEG ANGLE AND REDUCED OD LENGTH SHOULD BE 18 INCH FROM SHOULDER. COLD ROLLED THREAD ROOTS AND PHOSPHATIZED CONNECTIONS, WITH HEAVY DUTY PLASTIC THREAD PROTECTORS. **(9-1/2" DRILL COLLAR X 8" DRILL COLLAR)**, QUANTITY REQUIRED = **08 NOS.**
7. REDUCED/BOTTLENECK CROSS OVER SUB, TOP-FISHNECK, AS PER API 7-1, DRILL COLLAR TO DRILL COLLAR, MAJOR OD 8" X 2-13/16" ID, 36" LONG, BOTTOM CONNECTION 6-5/8" API REG PIN X REDUCED OD 6-1/4" X 2-13/16" ID, TOP CONNECTION NC46 (4" IF) BOX, BOX BOREBACK & 1 INCH STRESS RELIEF GROOVE PIN, REDUCED OD TRANSITION RADIUS 3 INCH WITH 45 DEG ANGLE AND REDUCED OD LENGTH SHOULD BE 18 INCH FROM SHOULDER. COLD ROLLED THREAD ROOTS AND PHOSPHATIZED CONNECTIONS, WITH HEAVY DUTY PLASTIC THREAD PROTECTORS. **(8" DRILL COLLAR X 6-1/4" DRILL COLLAR)**. QUANTITY REQUIRED = **08 NOS.**
8. REDUCED/BOTTLENECK CROSS OVER SUB, TOP-FISHNECK, AS PER API 7-1, DRILL COLLAR TO DRILL PIPE, MAJOR OD 9-1/2" X 3" ID, 36" LONG, BOTTOM CONNECTION 7-5/8" API REG PIN X REDUCED OD 6-5/8" X 3" ID, TOP CONNECTION NC50 (4-1/2" IF) BOX, BOX BOREBACK & 1 INCH STRESS



RELIEF GROOVE PIN, REDUCED OD TRANSITION RADIUS 3 INCH WITH 45 DEG ANGLE AND REDUCED OD LENGTH SHOULD BE 18 INCH FROM SHOULDER. COLD ROLLED THREAD ROOTS AND PHOSPHATIZED CONNECTIONS, WITH HEAVY DUTY PLASTIC THREAD PROTECTORS. **(9-1/2" DRILL COLLAR X 5" DRILL PIPE)**. QUANTITY REQUIRED = 08 NOS.

- 9. REDUCED/BOTTLENECK CROSS OVER SUB, TOP-FISHNECK, AS PER API 7-1, DRILL COLLAR TO DRILL PIPE, MAJOR OD 8" X 2-13/16" ID, 36" LONG, BOTTOM CONNECTION 6-5/8" API REG PIN X REDUCED OD 6-5/8" X 2-13/16" ID, TOP CONNECTION NC50 (4-1/2" IF) BOX, BOX BOREBACK & 1 INCH STRESS RELIEF GROOVE PIN, REDUCED OD TRANSITION RADIUS 3 INCH WITH 45 DEG ANGLE AND REDUCED OD LENGTH SHOULD BE 18 INCH FROM SHOULDER. COLD ROLLED THREAD ROOTS AND PHOSPHATIZED CONNECTIONS, WITH HEAVY DUTY PLASTIC THREAD PROTECTORS. **(8" DRILL COLLAR X 5" DRILL PIPE)**. QUANTITY REQUIRED = 10 NOS.
- 10. REDUCED/BOTTLENECK CROSS OVER SUB, BOTTOM-TONG SPACE, AS PER API 7-1, DRILL COLLAR TO DRILL PIPE, MAJOR OD 6-5/8" X 2-13/16" ID, 36" LONG, BOTTOM CONNECTION NC46 (4" IF) PIN X REDUCED OD 6-1/4" X 2-13/16" ID, TOP CONNECTION NC50 (4-1/2" IF) BOX, BOX BOREBACK & 1 INCH STRESS RELIEF GROOVE PIN, REDUCED OD TRANSITION RADIUS 3 INCH AND REDUCED OD LENGTH SHOULD BE 18 INCH FROM PIN NOSE. COLD ROLLED THREAD ROOTS AND PHOSPHATIZED CONNECTIONS, WITH HEAVY DUTY PLASTIC THREAD PROTECTORS. **(6-1/4" DRILL COLLAR X 5" DRILL PIPE)**. QUANTITY REQUIRED = 10 NOS.
- 11. REDUCED/BOTTLENECK CROSS OVER SUB, TOP-FISHNECK, AS PER API 7-1, DRILL COLLAR TO DRILL PIPE, MAJOR OD 4-3/4" X 2-1/8" ID, 36" LONG, BOTTOM CONNECTION NC38 (3-1/2" IF) PIN X REDUCED OD 4-1/8" X 2-1/8" ID, TOP CONNECTION NC31 (2-7/8" IF) BOX, STANDARD BOX & 1 INCH STRESS RELIEF GROOVE PIN, REDUCED OD TRANSITION RADIUS 3 INCH WITH 20 DEG ANGLE AND REDUCED OD LENGTH SHOULD BE 18 INCH FROM SHOULDER. COLD ROLLED THREAD ROOTS AND PHOSPHATIZED CONNECTIONS, WITH HEAVY DUTY PLASTIC THREAD PROTECTORS. **(4-3/4" DRILL COLLAR X 2-7/8" DRILL PIPE* (2-7/8" DRILL PIPE WITH TOOL JOINT OD 4-1/8" & ID 2-1/8"))**. QUANTITY REQUIRED = 05 NOS.
- 12. REDUCED/BOTTLENECK CROSS OVER SUB, BOTTOM-TONG SPACE, AS PER API 7-1, DRILL COLLAR TO DRILL PIPE, MAJOR OD 3-3/8" X 1-1/4" ID, 36" LONG, BOTTOM CONNECTION 2-3/8" API REG PIN X REDUCED OD 3-1/8" X 1-1/4" ID, TOP CONNECTION NC26 (2-3/8" IF) BOX, STANDARD BOX & PIN, REDUCED OD TRANSITION RADIUS 3 INCH AND REDUCED OD LENGTH SHOULD BE 18 INCH FROM PIN NOSE. COLD ROLLED THREAD ROOTS AND PHOSPHATIZED CONNECTIONS, WITH HEAVY DUTY PLASTIC THREAD PROTECTORS. **(3-1/8" DRILL COLLAR X 2-7/8" DRILL PIPE* (SLIM HOLE 2-7/8" DRILL PIPE WITH TOOL JOINT OD 3-3/8" & ID 1-3/4"))**. QUANTITY REQUIRED = 07 NOS.
- 13. REDUCED/BOTTLENECK CROSS OVER SUB, BOTTOM-TONG SPACE, AS PER API 7-1, DRILL COLLAR TO DRILL PIPE, MAJOR OD 4-1/8" X 1-1/4" ID, 36" LONG, BOTTOM CONNECTION 2-3/8" API REG PIN X REDUCED OD 3-1/8" X 1-1/4" ID, TOP CONNECTION NC31 (2-7/8" IF) BOX, STANDARD BOX & PIN, REDUCED OD TRANSITION RADIUS 3 INCH WITH 30 DEG ANGLE AND REDUCED OD LENGTH SHOULD BE 18 INCH FROM PIN NOSE. COLD ROLLED THREAD ROOTS AND PHOSPHATIZED CONNECTIONS, WITH HEAVY DUTY PLASTIC THREAD PROTECTORS. **(3-1/8" DRILL COLLAR X 2-7/8" DRILL PIPE* (2-7/8" DRILL PIPE WITH TOOL JOINT OD 4-1/8" & ID 2-1/8"))**. QUANTITY REQUIRED = 05 NOS.
- 14. REDUCED/BOTTLENECK CROSS OVER SUB, BOTTOM-TONG SPACE, AS PER API 7-1, DRILL PIPE TO DRILL PIPE, MAJOR OD 6-5/8" X 2-11/16" ID, 36" LONG, BOTTOM CONNECTION NC38 (3-1/2" IF) PIN X REDUCED OD 4-3/4" X 2-11/16" ID, TOP CONNECTION NC50 (4-1/2" IF) BOX, BOX BOREBACK & 1 INCH STRESS RELIEF GROOVE PIN, REDUCED OD TRANSITION RADIUS 3 INCH WITH 45 DEG ANGLE AND REDUCED OD LENGTH SHOULD BE 18 INCH FROM PIN NOSE. COLD ROLLED THREAD ROOTS AND PHOSPHATIZED CONNECTIONS, WITH HEAVY DUTY PLASTIC THREAD PROTECTORS. **(3-1/2" DRILL PIPE X 5" DRILL PIPE)**. QUANTITY REQUIRED = 12 NOS.
- 15. REDUCED/BOTTLENECK CROSS OVER SUB, BOTTOM-TONG SPACE, AS PER API 7-1, DRILL PIPE TO DRILL PIPE, MAJOR OD 4-3/4" X 1-1/2" ID, 36" LONG, BOTTOM CONNECTION NC26 (2-3/8" IF)

PIN X REDUCED OD 3-3/8" X 1-1/2" ID, TOP CONNECTION NC38 (3-1/2" IF) BOX, BOX BOREBACK & STANDARD PIN, REDUCED OD TRANSITION RADIUS 3 INCH WITH 30 DEG ANGLE AND REDUCED OD LENGTH SHOULD BE 18 INCH FROM PIN NOSE. COLD ROLLED THREAD ROOTS AND PHOSPHATIZED CONNECTIONS, WITH HEAVY DUTY PLASTIC THREAD PROTECTORS. **(2-7/8" DRILL PIPE (SLIM HOLE) X 3-1/2" DRILL PIPE)**. QUANTITY REQUIRED = 05 NOS.

- 16. REDUCED/BOTTLENECK CROSS OVER SUB, BOTTOM-TONG SPACE, AS PER API 7-1, DRILL PIPE TO DRILL PIPE, MAJOR OD 4-3/4" X 2-1/8" ID, 36" LONG, BOTTOM CONNECTION NC31 (2-7/8" IF) PIN X REDUCED OD 4-1/8" X 2-1/8" ID, TOP CONNECTION NC38 (3-1/2" IF) BOX, BOX BOREBACK & STANDARD PIN, REDUCED OD TRANSITION RADIUS 3 INCH WITH 20 DEG ANGLE AND REDUCED OD LENGTH SHOULD BE 18 INCH FROM PIN NOSE. COLD ROLLED THREAD ROOTS AND PHOSPHATIZED CONNECTIONS, WITH HEAVY DUTY PLASTIC THREAD PROTECTORS. **(2-7/8" DRILL PIPE X 3-1/2" DRILL PIPE)**. QUANTITY REQUIRED = 04 NOS.
- 17. REDUCED/BOTTLENECK CROSS OVER SUB, TOP-FISHNECK, AS PER API 7-1, DRILL PIPE TO DRILL PIPE, MAJOR OD 6-5/8" X 2-11/16" ID, 36" LONG, BOTTOM CONNECTION NC50 (4-1/2" IF) PIN X REDUCED OD 4-3/4" X 2-11/16" ID, TOP CONNECTION NC38 (3-1/2" IF) BOX, BOX BOREBACK & 1 INCH STRESS RELIEF GROOVE PIN, REDUCED OD TRANSITION RADIUS 3 INCH WITH 45 DEG ANGLE AND REDUCED OD LENGTH SHOULD BE 18 INCH FROM SHOULDER . COLD ROLLED THREAD ROOTS AND PHOSPHATIZED CONNECTIONS, WITH HEAVY DUTY PLASTIC THREAD PROTECTORS. **(5" DRILL PIPE X 3-1/2" DRILL PIPE)**. QUANTITY REQUIRED = 08 NOS.
- 18. REDUCED/BOTTLENECK CROSS OVER SUB, BOTTOM-TONG SPACE, AS PER API 7-1, MUD MOTOR TO DRILL COLLAR, MAJOR OD 6-3/4" X 2-13/16" ID, 36" LONG, BOTTOM CONNECTION NC50 (4-1/2" IF) PIN X REDUCED OD 6-1/4" X 2-13/16" ID, TOP CONNECTION NC46 (4" IF) BOX, BOX BOREBACK & 1 INCH STRESS RELIEF GROOVE PIN, REDUCED OD TRANSITION RADIUS 3 INCH WITH 20 DEG ANGLE AND REDUCED OD LENGTH SHOULD BE 18 INCH FROM PIN NOSE. COLD ROLLED THREAD ROOTS AND PHOSPHATIZED CONNECTIONS, WITH HEAVY DUTY PLASTIC THREAD PROTECTORS. **(6-3/4" OR 6-1/2" OD MUD MOTOR X 6-1/4" DRILL COLLARS)**. QUANTITY REQUIRED = 08 NOS.
- 19. REDUCED/BOTTLENECK CROSS OVER SUB, TOP-FISHNECK, AS PER API 7-1, DRILL COLLAR TO DRILL PIPE, MAJOR OD 8" X 2-11/16" ID, 36" LONG, BOTTOM CONNECTION 6-5/8" API REG PIN X REDUCED OD 4-3/4" X 2-11/16" ID, TOP CONNECTION NC38 (3-1/2" IF) BOX, BOX BOREBACK & 1 INCH STRESS RELIEF GROOVE PIN, REDUCED OD TRANSITION RADIUS 3 INCH WITH 45 DEG ANGLE AND REDUCED OD LENGTH SHOULD BE 18 INCH FROM SHOULDER . COLD ROLLED THREAD ROOTS AND PHOSPHATIZED CONNECTIONS, WITH HEAVY DUTY PLASTIC THREAD PROTECTORS. **(8" DRILL COLLAR X 3-1/2" DRILL PIPE)**. QUANTITY REQUIRED = 08 NOS.
- 20. REDUCED/BOTTLENECK CROSS OVER SUB, BOTTOM-TONG SPACE, AS PER API 7-1, DRILL PIPE TO CASING SCRAPER, MAJOR OD 6" X 2" ID, 36" LONG, BOTTOM CONNECTION NC38 (3-1/2" IF) PIN X REDUCED OD 4-3/4" X 2" ID, TOP CONNECTION 4-1/2" API REG PIN, 1 INCH STRESS RELIEF GROOVE ON BOTH PINS, REDUCED OD TRANSITION RADIUS 3 INCH WITH 30 DEG ANGLE AND REDUCED OD LENGTH SHOULD BE 18 INCH FROM PIN NOSE. COLD ROLLED THREAD ROOTS AND PHOSPHATIZED CONNECTIONS, WITH HEAVY DUTY PLASTIC THREAD PROTECTORS. **(3-1/2" DRILL PIPE X 9-5/8" CASING SCRAPER)**. QUANTITY REQUIRED = 08 NOS.
- 21. REDUCED/BOTTLENECK CROSS OVER SUB, BOTTOM-TONG SPACE, AS PER API 7-1, DRILL PIPE TO CASING SCRAPER, MAJOR OD 4-3/4" X 1-3/4" ID, 36" LONG, BOTTOM CONNECTION NC26 (2-3/8" IF) PIN X REDUCED OD 3-3/8" X 1-3/4" ID, TOP CONNECTION 3-1/2" API REG PIN, STANDARD PINS, REDUCED OD TRANSITION RADIUS 3 INCH WITH 30 DEG ANGLE AND REDUCED OD LENGTH SHOULD BE 18 INCH FROM PIN NOSE. COLD ROLLED THREAD ROOTS AND PHOSPHATIZED CONNECTIONS, WITH HEAVY DUTY PLASTIC THREAD PROTECTORS. **(SLIM HOLE 2-7/8" DRILL PIPE WITH TOOL JOINT OD 3-3/8" & ID 1-3/4" X 7" CASING SCRAPER)**. QUANTITY REQUIRED = 08 NOS.

- (7)
22. REDUCED/BOTTLENECK CROSS OVER SUB, BOTTOM-TONG SPACE, AS PER API 7-1, DRILL PIPE TO CASING SCRAPER, MAJOR OD 4-3/4" X 1-3/4" ID, 36" LONG, BOTTOM CONNECTION NC31 (2-7/8" IF) PIN X REDUCED OD 4-1/8" X 1-3/4" ID, TOP CONNECTION 3-1/2" API REG PIN, STANDARD PINS, REDUCED OD TRANSITION RADIUS 3 INCH WITH 20 DEG ANGLE AND REDUCED OD LENGTH SHOULD BE 18 INCH FROM PIN NOSE. COLD ROLLED THREAD ROOTS AND PHOSPHATIZED CONNECTIONS, WITH HEAVY DUTY PLASTIC THREAD PROTECTORS. **(2-7/8" DRILL PIPE WITH TOOL JOINT OD 4-1/8" & ID 2-1/8" X 7" CASING SCRAPER)**. QUANTITY REQUIRED = **08 NOS.**
 23. STRAIGHT PUMP IN SUB AS PER API 7-1, 24" LONG SHOULDER TO SHOULDER, 4-3/4" OD, 1-13/16" ID, BOTTOM CONNECTION NC38 (3-1/2" IF) PIN (1 INCH STRESS RELIEF GROOVE ON PIN), TOP CONNECTION 2" FIG 1502 HAMMER UNION FEMALE THREAD PIN CONNECTION, COLD ROLLED THREAD ROOTS AND PHOSPHATIZED CONNECTIONS, WITH HEAVY DUTY PLASTIC THREAD PROTECTORS. QUANTITY REQUIRED = **08 NOS.**
 24. STRAIGHT PUMP IN SUB AS PER API 7-1, 24" LONG SHOULDER TO SHOULDER, 6-5/8" OD, 1-13/16" ID, BOTTOM CONNECTION NC50 (4-1/2" IF) PIN (1 INCH STRESS RELIEF GROOVE ON PIN), TOP CONNECTION 2" FIG 1502 HAMMER UNION FEMALE THREAD PIN CONNECTION, COLD ROLLED THREAD ROOTS AND PHOSPHATIZED CONNECTIONS, WITH HEAVY DUTY PLASTIC THREAD PROTECTORS. QUANTITY REQUIRED = **08 NOS.**
 25. STRAIGHT X-OVER SUB AS PER API 7-1, 9-1/2" OD X 3" ID, 36" LONG, BOTTOM CONNECTION 7-5/8" API REG PIN X TOP CONNECTION 7-5/8" API REG PIN, 1 INCH STRESS RELIEF GROOVE ON BOTH PINS, COLD ROLLED THREAD ROOTS AND PHOSPHATIZED CONNECTIONS, WITH HEAVY DUTY PLASTIC THREAD PROTECTORS. **(NEAR BIT STABILIZER X 9-1/2" DRILL COLLAR)**. QUANTITY REQUIRED = **08 NOS.**
 26. STRAIGHT X-OVER SUB AS PER API 7-1, 8" OD X 2-13/16" ID, 36" LONG, BOTTOM CONNECTION 6-5/8" API REG PIN X TOP CONNECTION 6-5/8" API REG PIN, 1 INCH STRESS RELIEF GROOVE ON BOTH PINS, COLD ROLLED THREAD ROOTS AND PHOSPHATIZED CONNECTIONS, WITH HEAVY DUTY PLASTIC THREAD PROTECTORS. **(NEAR BIT STABILIZER X 8" DRILL COLLAR)**. QUANTITY REQUIRED = **08 NOS.**
 27. STRAIGHT X-OVER SUB AS PER API 7-1, 6-5/8" OD X 3" ID, 36" LONG, BOTTOM CONNECTION NC50 (4-1/2" IF) PIN X TOP CONNECTION NC50 (4-1/2" IF) PIN, 1 INCH STRESS RELIEF GROOVE ON BOTH PINS, COLD ROLLED THREAD ROOTS AND PHOSPHATIZED CONNECTIONS, WITH HEAVY DUTY PLASTIC THREAD PROTECTORS. **(5" HWDP X BOP TEST PLUG)**. QUANTITY REQUIRED = **08 NOS.**

GENERAL TERMS & CONDITIONS

1. The quoted Single manufacturer of Bit Subs & X-overs must have an approval of API specs 7-1 for the last Twenty (20) years. In this regard latest & consecutive (Without any breaks) Twenty (20) years back API 7-1 certificates or authentic proof from API official website for the same to be submitted with the technical offer. In this regard 20 years Period will start from the date of technical Bid opening.
2. The quoted Bit Subs & X-overs must be brand new & un-used. Confirmation to this effect is required in the technical offer.
3. The successful bidder will be required to furnish mill inspection certificates for Bit Subs & X-overs with shipping documents. Confirmation to this effect must be provided in the technical offer.
4. Authority letter in original from the manufacturer(s) covering Warranty/Guarantee for offered Bit Subs & X-overs for a period of 18 Months from date of shipment with tender enquiry number must be furnished with the technical offer.



- (6)
5. Authority letters in original from the manufacturer(s) to bidder and from bidder to local agent for offered Bit Subs & X-overs with tender enquiry number must be furnished with the technical offer. The authority letter must be on company letter head, showing the name and contact details (E-mail & fax number) of the signing authority.
 6. Original Brochure or brochure on CD/USB format of the manufacturer(s) containing technical literature/specs sheets & Drawings specifying physical/performance properties of quoted Bit Subs & X-overs must be submitted with the technical offer.
 7. The manufacturer must have minimum Twenty (20) years' experience in the manufacturing of Bit Subs & X-overs and have supplied quoted Bit Subs & X-overs each year during last 10 years to the major international E & P companies like PDO, KOC, Shell, BP, Total, ENI, MOL, OMV or equivalent and drilling contractors company like Schlumberger, Weatherford, Exalo etc. In this regard bidder(s)/ manufacturer should provide last 10 (ten) years comprehensive detailed supply record containing detail of offered and similar Bit Subs & X-overs, quantity, name of customers other than manufacturer's own country should be submitted with the technical offer. The supply record must be on the company letterhead and should indicate the Name & Designation of the signing authority along with his complete contact details phone & fax numbers and his official email address.
 8. Bidder/Manufacturer must submit with technical bid, unpriced copies of at least 10 different purchase orders (for different clients) for quoted Bit Subs & X-overs being supplied to the major international E & P companies like PDO, KOC, Shell, BP, Total, ENI, MOL, OMV or equivalent and drilling contractors company like Schlumberger, Weatherford, Exalo or equivalent in other than manufacturer's own country. (Documentary evidence to prove the equivalent stature of E & P Company/ Drilling contractors other than specified above will be required along with technical bid, to ascertain the equivalency of E & P Company/ Drilling contractors other than specified above will be OGDCL sole discretion).
 9. Certificates of satisfactory performance of quoted Bit Subs & X-overs only issued by authorized official(s) of at least 5 (Five) different renowned international E&P companies like PDO, KOC, Shell, BP, Total, ENI, MOL, OMV or equivalent and drilling contractor companies like Schlumberger, Weatherford, Exalo etc other than manufacturer's own country in favour of manufacturer to be submitted with the technical offer. The Provided Performance certificates must be on the company letterhead and should indicate the Name & Designation of the signing authority along with his complete contact details phone & fax numbers and his official email address. However above certificate(s) issued by joint ventures and supply/trading house(s) will not be accepted. (Documentary evidence to prove the equivalent stature of E & P Company/ Drilling contractors other than specified above will be required along with technical bid, to ascertain the equivalency of E & P Company/ Drilling contractors other than specified above will be OGDCL sole discretion).
 10. Evaluation criteria will be Full consignment wise.
 11. Third party inspection by internationally reputed inspection company is required as per oil industry practice. TPI will be arranged by OGDCL from any of the following parties (i) M/S SGS Pakistan (Private) Limited, Pakistan (ii) M/S Bureau VERITAS Pakistan (Pvt) Ltd, Pakistan (iii) M/S TUV Austria Bureau of inspection & certification (Pvt) Ltd, Pakistan (iv) M/s TUV Rheinland Arabia LLC, Pakistan (v) M/S Velosi, Pakistan .Bidder will assist and make necessary arrangement for TPI. Bidder to confirm that the Third Party Inspection (TPI) 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;



- a) Full Process inspection from the day 1st of manufacturing as per industry standard & API 7-1 & 7-2 Specifications.
 - b) Verification of All Raw material certificates including Forgings etc for confirmation of country of origin of Raw Materials. OEM will be responsible to provide proof of purchase of forging with copy of purchase order, shipping documents, Packing List from Forge Master with Heat number & serial number of equipment.
 - c) Verification of full body ultrasonic inspection where applicable.
 - d) Visual inspection for any defects
 - e) Verification of mill test certificates.
 - f) Verification that all equipment is brand new and unused.
 - g) Verification that all the materials (quantity & specifications) & documents are in accordance with Purchase order.
 - h) Verification that all Bit Subs & X-overs are manufactured as per relevant API specs.
12. Delivery required: - Within 90 days after establishment of letter of credit C&F Karachi by sea.

