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

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

ANNEXURE 'A'

Material

PROCUREMENT OF VALVES,BENDS,FITTINGS,ANTI CORROSION TAPE , ISOLATING MATERIAL & ACCESS FITTINGS

Tender Enquiry No

ASSEMBLY. PROC-FB/CB/PE&FD-4615/2020

Due Date

Due Da				
Evalua	tion Criteria GROUP WISE			
		SCHEI	DULE OF REQUIREMEN	\mathbf{T}
Sr No	Description	Unit		otal Price Total Price Deviated From
				(FOB) C & F BY SEA C & E BY SEA Tender Spec, If As
Group	A			renderance in A
1				
1	BALL VALVE 3/4", FLANGED END 1500# RTJ, FULL BORE, LEVER	Number	80	777
	OPERATED, API 6D,NACE MR 0175 COMPLIANCE, FIRE SAFE AS PER API 6FA/607, TRIM MATERIALL & BALL :SS 316, BODY : ASTM A216 GR			
	WCB, WITH COMPANION FLANGES, STUD/NUTS AND GASKETS.			
2.	BALL VALVE 1/2", FLANGED END 1500# RTJ, FULL BORE, LEVER	Number	20	
_	OPERATED, API 6D,NACE MR 0175 COMPLIANCE, FIRE SAFE AS PER	Number	20	
	API 6FA/607, TRIM MATERIALL & BALL :SS 316, BODY : ASTM A216 GR			
	WCB, WITH COMPANION FLANGES, STUD/NUTS AND GASKETS.			
3	GLOBE VALVE, 1",FLANGED END 1500# RTJ, BODY : ASTM A216 GR	Number	15	
i	WCB, TRIM: SS 316, NACE MR 0175 COMPLIANCE, FIRE SAFE AS PER	- 10-11-0-1		
i	API 6FA/607, ALONGWITH COMPANION FLANGES, STUD/NUTS AND			
ļ	GASKETS			
4	BALL VALVE 1", FLANGED END 1500# RTJ, FULL BORE, LEVER	Number	140	
	OPERATED, API 6D, NACE MR 0175 COMPLIANCE, FIRE SAFE AS PER			
	API 6FA/607, TRIM MATERIALL & BALL :SS 316, BODY : ASTM A216 GR			
5	WCB, WITH COMPANION FLANGES, STUD/NUTS AND GASKETS. GATE VALVE 1", FULL BORE, 1500 #, A-105, NPT FEMALE			
J		Number	15	
6	GATE VALVE, 3/4",FULL BORE, 1500 #, A-105, NPT FEMALE	Number	50	
Group	В			
7	BEND 4", SCH-160, 90 DEGREE, 7D, BE, API 5L-X52 NS, PSL2, 12"	Number	5	
	TANGENT, NACE MR-0175 COMPLIANCE			
8	BEND 4", SCH-160, 45 DEGREE, 7D, BE, API 5L-X52 NS, PSL2, 12"	Number	5	
	TANGENT, NACE MR-0175 COMPLIANCE			
9	BEND CS 6", SCH-80, 90 DEGREE, 7D, BE, API 5L-X52 NS, PSL2, 12"	Number	20	
10	TANGENT, NACE MR-0175 COMPLIANCE			
10	BEND CS 4", SCH-40, 90 DEGREE, 5D, BE, API 5L-X52 NS, PSL2, 12"	Number	40	
11	TANGENT, NACE MR-0175 COMPLIANCE BEND CS 6", SCH-40, 45 DEGREE, 5D, BE, API 5L-X52 NS, PSL2, 12"	N. 1	**	
	TANGENT, NACE MR-0175 COMPLIANCE	Number	25	
12	BEND CS 6", SCH-40, 90 DEGREE, 5D, BE, API 5L-X52 NS, PSL2, 12"	Number	50	
-	TANGENT, NACE MR-0175 COMPLIANCE	Number	30	
13	BEND CS 6", SCH-80, 45 DEGREE, 7D, BE, API 5L-X52 NS, PSL2, 12"	Number	10	
	TANGENT, NACE MR-0175 COMPLIANCE	Tullibei	10	
14	BEND CS 8", SCH-80, 90 DEGREE, 7D, BE, API 5L-X52 NS, PSL2, 12"	Number	80	
	TANGENT, NACE MR-0175 COMPLIANCE			
15	BEND CS 8", SCH-80, 45 DEGREE, 7D, BE, API 5L-X52 NS, PSL2, 12"	Number	30	A
16	TANGENT, NACE MR-0175 COMPLIANCE			
10	BEND CS 4", SCH–80, 90 DEGREE, 7D, BE , API 5L–X52 NS, PSL2, 12" TANGENT, NACE MR–0175 COMPLIANCE	Number	45	
17	BEND CS 4", SCH-80, 45 DEGREE, 7D, BE, API 5L-X52 NS, PSL2, 12"	Number	22	
- •	TANGENT, NACE MR-0175 COMPLIANCE	Number	22	velted his land with & FD
Group				velter PE8FD
18	R37 316SS OVAL RING GASKET, ASME B16.20 (For 4" Class 900 Flange)	NT1	150	Market 1
	ANY STOOD OVAL KING GASKET, ASME B10.20 (FOR 4" Class 900 Flange)	Number	150	CE (Wes 5810
			Page 1	Or Ex

OIL & GAS DEVELOPIVIENT CONPANY LIMITED PROCUREMENT DEPARTMENT, ISLAMABAD FOREIGN SECTION B

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

ANNEXURE 'A'

Material

PROCUREMENT OF VALVES, BENDS, FITTINGS, ANTI CORROSION TAPE, ISOLATING MATERIAL & ACCESS FITTINGS

Tender Enquiry No

ASSEMBLY. PROC-FB/CB/PE&FD-4615/2020

Due Date

Evaluation Criteria

GROUP WISE

Group C

C			
ASTM A193 B7 STUDS WITH TWO ASTM A194 2H HEX NUTS SIZE M36 X M265 CADMIUM PLATED, ASME B18.2.2	Number	180	
CONCENTRIC REDUCER 8" X 6", SCH 80 X 160, BE, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, ANSI B16.9	Number	5	
52, NACE MR-0175 COMPLIANCE, ANSI B16.9	Number	15	
ASME B36.10 EDGE PREPARATION AS PER ASME B16.25, BOTH ENDS MALE THREADED	Number	45	
0175 COMPLIANCE, ANSI B16.9	Number	15	
MR-0175 COMPLIANCE, ANSI B16.9	Number	10	
0175 COMPLIANCE, ANSI B16.9	Number	20	
0175 COMPLIANCE, ANSI B16.9	Number	30	
MR-0175 COMPLIANCE	Number	10	
FLANGE 4-1/16", API 5000 Psi, RTJ, A-105, SCH-160	Number	6	
ECCENTRIC REDUCER 6" X 4", SCH 80, BE, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, ANSI B16 9	Number	2	
R49 316SS OVAL RING GASKET, ASME B16.20 (For 8" Class 900 Flange)	Number	80	
FLANGE 1", 150#, RF, A-105, SW	Number	10	•
M30xM175 CADMIUM PLATED, ASME B18.2.2	Number	1600	
ECCENTRIC REDUCER 2" X 4", SCH 80, BE, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, ANSI B16.9	Number	5	
X M225 CADMIUM PLATED, ASME B18.2.2	Number	1440	
R45 316SS OVAL RING GASKET, ASME B16.21 (For 6" Class 900 Flange)	Number	35	
FLANGE 2", 150#, RF A-105, WN, SCH-80	Number	10	A
0175 COMPLIANCE, ANSI B-16.5	Number	15	
NACE MR-0175 COMPLIANCE, ANSI B16.9	Number	20	
HEX HEAD SOLID PLUG , 1/2" NPT, RATING 6000PSIG, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, ASME B16.11	Number	30	
EQUAL TEE 4", BE, SCH 160, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, ANSI B16.9	Number	20	20
THREADOLET,1" on 4", RATING 6000PSIG, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, MSS SP-97	Number	30	vetter dor 202 Aris FD
THREADOLET, 3/4" on 4", RATING 6000PSIG, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, MSS SP-97	Number	60	Nell Whammad Arif & FC Muhammad PE 8 FC
THREADOLET, 3/4" on 4", RATING 6000PSIG, ASTM A860 WPHY 52,	Number	15	Mr. Mecr. a10
	X M265 CADMIUM PLATED, ASME B18.2.2 CONCENTRIC REDUCER 8" X 6", SCH 80 X 160, BE, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, ANSI B16.9 CONCENTRIC REDUCER 8" X 4", SCH 80 X 160, BE, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, ANSI B16.9 SWEDGE NIPPLE CONCENTRIC, 3/4" X 1/2", 4" LONG, 6000#, A 106, NPT, ASME B36.10 EDGE PREPARATION AS PER ASME B16.25, BOTH ENDS MALE THREADED ELBOW 4",LR, BE, 45 DEG, SCH 80, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, ANSI B16.9 REDUCING TEE 4"x3"X4", BE, SCH 80, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, ANSI B16.9 ELBOW 8",LR, BE, 45 DEG, SCH 80, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, ANSI B16.9 ELBOW 8",LR, BE, 45 DEG, SCH 80, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, ANSI B16.9 ELBOW 8",LR, BE, 90 DEG, SCH 80, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, ANSI B16.9 REDUCING TEE 8"x6"X8", BE, SCH 80, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, ANSI B16.9 REDUCING TEE 8"x6"X8", BE, SCH 80, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, ANSI B16.9 REDUCING TEE 8"x6"X8", BE, SCH 80, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, ANSI B16.9 REDUCING TEE B"x6"X8", BE, SCH 80, BE, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, ANSI B16.9 R49 316SS OVAL RING GASKET, ASME B16.20 (For 8" Class 900 Flange) FLANGE 1", 150#, RF, A-105, SW ASTM A193 B7 STUDS WITH TWO ASTM A194 2H HEX NUTS SIZE M30xM175 CADMIUM PLATED, ASME B18.2.2 ECCENTRIC REDUCER 2" X 4", SCH 80, BE, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, ANSI B16.9 ASTM A193 B7 STUDS WITH TWO ASTM A194 2H HEX NUTS SIZE M36 X M225 CADMIUM PLATED, ASME B18.2.2 ECCENTRIC REDUCER 2" X 4", SCH 80, BE, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, ANSI B16.9 BLIND FLANGE, 8", RTJ, CLASS 900, SCH 80, ASTM A694 F52, NACE MR 0175 COMPLIANCE, ANSI B16.9 BLIND FLANGE, 8", RTJ, CLASS 900, SCH 80, ASTM A694 F52, NACE MR 0175 COMPLIANCE, ANSI B16.9 BLIND FLANGE, 8", RTJ, CLASS 900, SCH 80, ASTM A600 WPHY 52, NACE MR-0175 COMPLIANCE, ANSI B16.9 THREADOLET, 1" on 4", RATING 6000PSIG, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, MSS SP-97 THREADOL	X M265 CADMIUM PLATED, ASME B18.2.2 CONCENTRIC REDUCER 8" X 6", SCH 80 X 160, BE, ASTM A860 WPHY 52, NACE MR—0175 COMPLIANCE, ANSI B16.9 CONCENTRIC REDUCER 8" X 4", SCH 80 X 160, BE, ASTM A860 WPHY 52, NACE MR—0175 COMPLIANCE, ANSI B16.9 SWEDGE NIPPLE CONCENTRIC, 3/4" X 1/2", 4" LONG, 6000#, A 106, NPT, ASME B36.10 EDGE PREPARATION AS PER ASME B16.25, BOTH ENDS MALE THREADED ELBOW 4",LR, BE, 45 DEG, SCH 80, ASTM A860 WPHY 52, NACE MR— 0175 COMPLIANCE, ANSI B16.9 EEBOW 4",LR, BE, 45 DEG, SCH 80, ASTM A860 WPHY 52, NACE MR— 0175 COMPLIANCE, ANSI B16.9 ELBOW 8",LR, BE, 45 DEG, SCH 80, ASTM A860 WPHY 52, NACE MR— 0175 COMPLIANCE, ANSI B16.9 ELBOW 8",LR, BE, 45 DEG, SCH 80, ASTM A860 WPHY 52, NACE MR— 0175 COMPLIANCE, ANSI B16.9 ELBOW 8",LR, BE, 45 DEG, SCH 80, ASTM A860 WPHY 52, NACE MR— 0175 COMPLIANCE, ANSI B16.9 ELBOW 8",LR, BE, 90 DEG, SCH 80, ASTM A860 WPHY 52, NACE MR— 0175 COMPLIANCE, ANSI B16.9 PREDUCING TEE 8"x6" X8", BE, SCH 80, ASTM A860 WPHY 52, NACE MR— 0175 COMPLIANCE, ANSI B16.9 REDUCING TEE 8"x6" X8", BE, SCH 80, ASTM A860 WPHY 52, NACE MR— 0175 COMPLIANCE FLANGE 4-1/16", API 5000 PSi, RTJ, A-105, SCH-160 Number BCCENTRIC REDUCER 6" X 4", SCH 80, BE, ASTM A860 WPHY 52, NACE MR— 0175 COMPLIANCE, ANSI B16.9 R49 316SS OVAL RING GASKET, ASME B16.20 (For 8" Class 900 Flange) Number ASTM A193 B7 STUDS WITH TWO ASTM A194 2H HEX NUTS SIZE Number ASTM A193 B7 STUDS WITH TWO ASTM A194 2H HEX NUTS SIZE Number ASTM A193 B7 STUDS WITH TWO ASTM A194 2H HEX NUTS SIZE M36 Number ASTM A193 B7 STUDS WITH TWO ASTM A194 2H HEX NUTS SIZE M36 Number ASTM A193 B7 STUDS WITH TWO ASTM A194 2H HEX NUTS SIZE M36 Number ASTM A193 B7 STUDS WITH TWO ASTM A194 2H HEX NUTS SIZE M36 Number ASTM A193 B7 STUDS WITH TWO ASTM A194 2H HEX NUTS SIZE M36 Number ASTM A193 B7 STUDS WITH TWO ASTM A194 2H HEX NUTS SIZE M36 Number ASTM A193 B7 STUDS WITH TWO ASTM A194 2H HEX NUTS SIZE M36 Number ASTM A193 B7 STUDS WITH TWO ASTM A194 2H HEX NUTS SIZE M36 Number ASTM A193 B7 STUDS WITH TWO ASTM A194 2H HEX NUTS SIZE M36 Number ASTM A193 B7 STUD	X M265 CADMILM PLATED, ASME B18.2.2 CONCENTRIC REDUCER 8" X 6", SCH 80 X 160, BE, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, ANSI B16.9 CONCENTRIC REDUCER 8" X 4", SCH 80 X 160, BE, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, ANSI B16.9 SWEDGE NIPPLE CONCENTRIC, 3/4" X 1/2", 4" LONG, 6000#, A 106, NPT, Number 45 ASME B3.01 EDGE PREPARATION AS PER ASME B16.25, BOTH ENDS MALE THREADED ELBOW 4", LR, Be, 45 DEG, SCH 80, ASTM A860 WPHY 52, NACE MR- 0175 COMPLIANCE, ANSI B16.9 REDUCING TEE 4"3" X"4", BE, SCH 80, ASTM A860 WPHY 52, NACE MR- 0175 COMPLIANCE, ANSI B16.9 REDUCING TEE 4"3" X"4", BE, SCH 80, ASTM A860 WPHY 52, NACE MR- 0175 COMPLIANCE, ANSI B16.9 ELBOW 8", LR, BE, 45 DEG, SCH 80, ASTM A860 WPHY 52, NACE MR- 0175 COMPLIANCE, ANSI B16.9 ELBOW 8", LR, BE, 90 DEG, SCH 80, ASTM A860 WPHY 52, NACE MR- 0175 COMPLIANCE, ANSI B16.9 REDUCING TEE 8"x6" X8", BE, SCH 80, ASTM A860 WPHY 52, NACE MR- 0175 COMPLIANCE, ANSI B16.9 REDUCING TEE 8"x6" X8", BE, SCH 80, ASTM A860 WPHY 52, NACE MR- 0175 COMPLIANCE, ANSI B16.9 REDUCING TEE 8"x6" X8", BE, SCH 80, ASTM A860 WPHY 52, NACE MR- 0175 COMPLIANCE, ANSI B16.9 REDUCING TEE 8"x6" X8", BE, SCH 80, ASTM A860 WPHY 52, NACE RM-0175 COMPLIANCE, ANSI B16.9 REDUCING TEE 8"x6" X8", BE, SCH 80, ASTM A860 WPHY 52, NACE RM-0175 COMPLIANCE, ANSI B16.9 RPDUCING TEE 8"x6" X8", BE, SCH 80, BE, ASTM A860 WPHY 52, Number 10 CECENTRIC REDUCER 6" X 4", SCH 80, BE, ASTM A860 WPHY 52, Number 20 RACE MR-0175 COMPLIANCE, ANSI B16.9 RPDUCING TEE 8"x6" X8", BE, SCH 80, BE, ASTM A860 WPHY 52, Number 10 ASTM A193 B7 STUDS WITH TWO ASTM A194 2H HEX NUTS SIZE Number 10 ASTM A193 B7 STUDS WITH TWO ASTM A194 2H HEX NUTS SIZE Number 10 ASTM A193 B7 STUDS WITH TWO ASTM A194 2H HEX NUTS SIZE Number 10 ASTM A193 B7 STUDS WITH TWO ASTM A194 2H HEX NUTS SIZE Number 10 ASTM A193 B7 STUDS WITH TWO ASTM A194 2H HEX NUTS SIZE M36 Number 10 ASTM A193 B7 STUDS WITH TWO ASTM A194 2H HEX NUTS SIZE M36 Number 10 ASTM A193 B7 STUDS WITH TWO ASTM A194 2H HEX NUTS SIZE M36 Number 10 ASTM A193 B7 STUDS WITH TWO A

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

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ANNEXURE 'A'

Material

PROCUREMENT OF VALVES, BENDS, FITTINGS, ANTI CORROSION TAPE, ISOLATING MATERIAL & ACCESS FITTINGS

ASSEMBLY.

Tender Enquiry No

PROC-FB/CB/PE&FD-4615/2020

Due Date

Evaluation Criteria

GROUP WISE

Group C

THREADOLET, 34" on 6", RATING 6000PSIG, ASTM A860 WPHY 52, Nacm MR—0175	Group (U			
NACE MR-0175 COMPLIANCE, MISS SP-97	44	THREADOLET, 3/4" on 6", RATING 6000PSIG, ASTM A860 WPHY 52	Number	30	
FOUAL TEE 8*, BE, SCH 80, ASTM A860 WPHY 52, NACE MR-0175 Number 30		NACE MR-0175 COMPLIANCE, MSS SP-97	Number	30	
CCOMPLIANCE, ANSI B16.9 REDUCING TEB 8**A**** S** BE, SCH 80xSCH 160xSCH80, ASTM A860 WPHY \$2, NACE MR-0175 COMPLIANCE, ANSI B16.9 PLANGE, 4*, WN, RT U, CLASS 900, SCH 80, ASTM A860 WPHY 52, NACE MR 0175 COMPLIANCE, ANSI B-16.5 REDUCING TEB 8**A*** S** BE, SCH 80, ASTM A860 WPHY 52, NACE MR 0175 COMPLIANCE, ANSI B16.9 BLIND PLANGE, 6**, BT, U, CLASS 900, SCH 80, ASTM A860 WPHY 52, NACE MR 0175 COMPLIANCE, ANSI B16.9 BLIND PLANGE, 6**, BT, U, CLASS 900, SCH 80, ASTM A860 WPHY 52, NACE MR 0175 COMPLIANCE, ANSI B16.9 BLIND PLANGE, 6**, BT, U, CLASS 900, SCH 80, ASTM A694 F52, NACE MR 0175 COMPLIANCE, ANSI B16.9 PIE ROW, B**, B**, B**, B**, B**, B**, B**, B*	45		Number	20	
REDUCING TEE 8"x" X8", BE, SCH 80xSCH 100xSCH80, ASTM A860 Number 5		CCOMPLIANCE, ANSI B16.9	rumber	30	
## PLANCE, 4,* WN. FIX, CLASS 900, SCH 60, ASTM A669 #52, NACE MR Number 150 0175 COMPILANCE, ANSI B-16.5 ## Number 10 0175 COMPILANCE, ANSI B-16.5 ## Nu	46	REDUCING TEE 8"x4"X8", BE, SCH 80xSCH 160xSCH80, ASTM A860	Number	5	
### FLANGE, 4", WN, RTI, CLASS 900, SCH 160, ASTM A694 FS2, NACE MR Number 150 0175 COMPLIANCE, ANSI B-16. ####################################		WPHY 52, NACE MR-0175 COMPLIANCE ANSI B16 9	ramioci	3	
0.175 COMPLIANCE, ANSI B-16.5 REDUCING TEE 8"4"8", BE, SCH 80, ASTM A860 WPHY 52, NACE Number 5 MR-0175 COMPLIANCE, ANSI B16.9 ELBOW 0" LR, BE, 90 DEG, SCH 80, ASTM A860 WPHY 52, NACE MR- 0175 COMPLIANCE, ANSI B16.9 BLIND FLANGE, 6", RTI, CLASS 900, SCH 80, ASTM A694 F52, NACE MR Number 10 0175 COMPLIANCE, ANSI B-16.5 IF LANGE 3-1/16", API 10,000 PSi, RTJ, A-105, SCH-160 Number 16 PIPE NIPPLE 3'4" * 4" LONG, NPT, 6000 PSI A106 GRADE B, ASME Number 90 B36.10, CONCENTRIC, BOTH ENDS MALE THREADED Number 25 0175 COMPLIANCE, ANSI B-16.5 BLIND FLANGE, 4", RTI, CLASS 900, SCH 80,ASTM A694 F52, NACE MR Number 20 MR 0175 COMPLIANCE, ANSI B-16.5 WELDOLET 3'4" for "LINEPIPE, RATING 6000PSIG, ASTM A860 WPHY Number 52, NACE MR-0175 COMPLIANCE, ANSI B-16.5 WELDOLET 3'4" for "LINEPIPE, RATING 6000PSIG, ASTM A860 WPHY Number 53, NACE MR-0175 COMPLIANCE, ANSI B-16.5 CONCENTRIC REDUCER 4" X "S, SCH 160 X 80, BE, ASTM A860 WPHY Number 52, NACE MR-0175 COMPLIANCE, ANSI B-16.5 OCONCENTRIC REDUCER 4" X "S, SCH 80 X 160, BE, ASTM A860 WPHY Number 53, NACE MR-0175 COMPLIANCE, ANSI B16.9 PIPE NIPPLE 12" X" LONG, NF, SCH 80 X 160, BE, ASTM A860 WPHY Number 10 SO, NACE MR-0175 COMPLIANCE, ANSI B16.9 PIPE NIPPLE 10" X" LONG, NF, GOOD, SCH 80, ASTM A694 F52, NACE MR Number 20 BIAND FLANGE, 4" X" LONG, NF, GOOD, SCH 80, ASTM A694 F52, NACE MR Number 35 OTHER NOTES OF THE NOTES OF TH	47	FLANGE, 4". WN. RTI. CLASS 900, SCH 160, ASTM A694 F52, NACE MR	Number	150	
### REDUCING TEE 8" *4" *18", BE, SCH 80, ASTM A860 WPHY 52, NACE MR—0175 COMPLIANCE, ANSI B16.9 #### BLBOW 6" LR, BE, 90 DBG, SCH 80, ASTM A860 WPHY 52, NACE MR—0175 COMPLIANCE, ANSI B16.9 #### BLBOW 6" LR, BE, 90 DBG, SCH 80, ASTM A860 WPHY 52, NACE MR—0175 COMPLIANCE, ANSI B16.9 #### BLBOW 6" LR, BE, 90 DBG, SCH 80, ASTM A694 F52, NACE MR—0175 COMPLIANCE, ANSI B—16.5 #### BLBOW 6" LR, API 10,000 PSI, RTI, A—105, SCH—160 #### BLBOW 6" LR, API 10,000 PSI, RTI, A—105, SCH—160 #### BBS 10, CONCENTRIC, BOTH ENDS MALE THREADED #### BLIND FLANGE, 4", RTI, CLASS 1500, SCH 80, ASTM A694 F52, NACE M Number ### Number ### Number ### BLIND FLANGE, 4", RTI, CLASS 1500, SCH 80, ASTM A860 WPHY Number ### Number #		0175 COMPLIANCE, ANSI B-16.5	rumber	130	
MR-0175 COMPLIANCE, ANSI B16.9	48	REDUCING TEE 8"x4"X8" BE SCH 80 ASTM A860 WPHY 52 NACE	Number	5	
ELBOW 6'-LR, BE, 90 DEG, SCH 80, ASTM A860 WPHY 52, NACE MR—	1.		Number	3	
0175 COMPLIANCE, ANSI B1-69	49		Number	20	
BLIND FLANGE, 6", RTI, CLASS 900, SCH 80,ASTM A694 F52, NACE MR			INUMBER	20	
0175 COMPLIANCE, ANSI B-16.5 FLANGE 3-1/16', API 10,000 Psi, RTI, A-105, SCH-160 Number 16 FLANGE 3-1/16', API 10,000 Psi, RTI, A-105, SCH-160 Number 90 B36.10, CONCENTRIC, BOTH ENDS MALE THREADED B36.10, CONCENTRIC, BOTH ENDS MALE THREADED 175 COMPLIANCE, ANSI B-16.5 BLIND FLANGE, 4'', RTI, CLASS 1500, SCH 80, ASTM A694 F52, NACE MR Number 25 BLIND FLANGE, 4'', RTI, CLASS 1500, SCH 80, ASTM A694 F52, NACE MR Number 26 MR 0175 COMPLIANCE, ANSI B-16.5 Number 15 S2, NACE MR-0175 COMPLIANCE, MSS B-97 Number 15 52, NACE MR-0175 COMPLIANCE, ANSI B16.9 Number 5 52, NACE MR-0175 COMPLIANCE, ANSI B16.9 Number 5 57 CONCENTRIC REDUCER 4'' X 4'', SCH 160 X 80, BE, ASTM A860 WPHY Number 10 58 PIPE NIPPLE 1/2" x 4" LONG, NPT, 6000 PSI A106 GRADE B, ASME Number 25 58 BIOLO CONCENTRIC, BOTH ENDS MALE THREADED Number 25 59 BLIND FLANGE, 4'', RTI, CLASS 600, SCH 80, ASTM A694 F52, NACE MR Number 26 60 FLANGE, 6'', WR, RTI, CLASS 900, SCH 80, ASTM A694 F52, NACE MR Number 35 61 FLANGE, 6'', WR, RTI, CLASS 900, SCH 80, ASTM A694 F52, NACE MR Number 36 62 ELBOW 4"LR BE, 90 DEG, SCH 80, ASTM A690 WPHY 52, NACE MR Number 50 63 EQUAL TELE 4'', BE, SCH 80, ASTM A860 WPHY 52, NACE MR Number 50 64 COMPLIANCE, ANSI B16.9 EQUAL TELE 4'', BE, SCH 80, ASTM A860 WPHY 52, NACE MR Number 50 65 EQUAL TELE 4'', BE, SCH 80, ASTM A860 WPHY 52, NACE MR Number 50 66 EQUAL TELE 4'', BE, SCH 80, ASTM A860 WPHY 52, NACE MR Number 50 67 EQUAL TELE 4'', BE, SCH 80, ASTM A860 WPHY 52, NACE MR Number 50 68 EQUAL TELE 4'', BE, SCH 80, ASTM A860 WPHY 52, NACE MR Number 50 69 EQUAL TELE 4'', BE, SCH 80, ASTM A860 WPHY 52, NACE MR Number 50 60 EQUAL TELE 4'', BE, SCH 80, ASTM A860 WPHY 52, NACE MR Number 50 60 EQUAL TELE 4'', BE, SCH 80, ASTM A860 WPHY 52, NACE MR Number 50 60 EQUAL TELE 4'', BE, SCH 80, ASTM A860 WPHY 52, NACE MR Number 50 60 EQUA	50		Number	10	
FLANCE 3-1/16", API 10,000 Psi, RTJ, A-105, SCH-160 Number 16		0175 COMPLIANCE ANSI B-16.5	Number	10	
PIPE NIPPLE 3/4" x 4" LONG, NPT, 6000 PSI A106 GRADE B, ASME Number 90	51	FLANGE 3-1/16" API 10 000 Psi RTI A-105 SCH-160	Number	16	
B36.10, CONCENTRIC, BOTH ENDS MALE THREADED Number 25			INUMBER	10	
BLIND FLANGE, 4", RTJ, CLASS 900, SCH 80,ASTM A694 F52, NACE MR	52		Number	90	
0175 COMPLIANCE, ANSI B-16.5 48 BLIND FLANGE, 4", RTJ, CLASS 1500, SCH 80,ASTM A694 F52, NACE Number 20 MR 0175 COMPLIANCE, ANSI B-16.5 WELDOLET 3/4" for 8" LINEPIPE, RATING 6000PSIG, ASTM A860 WPHY S2, NACE MR-0175 COMPLIANCE, MSS SP-97 55 WELDOLET 3/4" for 8" LINEPIPE, RATING 6000PSIG, ASTM A860 WPHY Number 15 55 CONCENTRIC REDUCER 4" X 6", SCH 160 X 80, BE, ASTM A860 WPHY Number 5 57 CONCENTRIC REDUCER 2" X 4", SCH 80 X 160, BE, ASTM A860 WPHY Number 10 58 PIPE NIPPLE 1/2" x 4" LONG, NPT, 6000 PSI A106 GRADE B, ASME Number 25 59 PIPE NIPPLE 1/2" x 4" LONG, NPT, 6000 PSI A106 GRADE B, ASME Number 25 59 BLIND FLANGE, 4", RTJ, CLASS 600, SCH 80,ASTM A694 F52, NACE MR Number 20 0175 COMPLIANCE, ANSI B-16.5 Number 35 0175 COMPLIANCE, ANSI B-16.5 Number 35 0175 COMPLIANCE, ANSI B-16.5 Number 50 0175 COMPLIANCE, ANSI B		B36.10, CONCENTRIC, BOTH ENDS MALE THREADED			
BLIND FLANGE, 4", RTJ, CLASS 1500, SCH 80,ASTM A694 F52, NACE Number 20	53	BLIND FLANGE, 4", RTJ, CLASS 900, SCH 80, ASTM A694 F52, NACE MR	Number	25	
MR 0175 COMPLIANCE, ANSI B-16.5 WELDOLET 3/4" for 8" LINEPIPE, RATING 6000PSIG, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, MSS SP-97 CONCENTRIC REDUCER 4" X 6", SCH 160 X 80, BE, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, ANSI B16.9 CONCENTRIC REDUCER 2" X 4", SCH 80 X 160, BE, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, ANSI B16.9 CONCENTRIC REDUCER 2" X 4", SCH 80 X 160, BE, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, ANSI B16.9 Number 10 S2, NACE MR-0175 COMPLIANCE, ANSI B16.9 Number 25 B36.10, CONCENTRIC, BOTH ENDS MALE THREADED 5 B36.10, CONCENTRIC, BOTH ENDS MALE THREADED 5 B1IND FLANGE, 4", RTJ, CLASS 600, SCH 80, ASTM A694 F52, NACE MR Number 20 0175 COMPLIANCE, ANSI B-16.5 FLANGE, 4", WN, RTJ, CLASS 900, SCH 80, ASTM A694 F52, NACE MR Number 35 0175 COMPLIANCE, ANSI B-16.5 FLANGE, 4", WN, RTJ, CLASS 900, SCH 80, ASTM A694 F52, NACE MR Number 50 0175 COMPLIANCE, ANSI B-16.5 ELBOW 4", LR, BE, 90 DEG, SCH 80, ASTM A860 WPHY 52, NACE MR Number 50 0175 COMPLIANCE, ANSI B-16.9 COMPLIANCE, ANSI B16.9	5.4				
SELDOLET 3/4" for 8" LINEPIPE, RATING 6000PSIG, ASTM A860 WPHY Number 15	54	BLIND FLANGE, 4", RTJ, CLASS 1500, SCH 80, ASTM A694 F52, NACE	Number	20	
52, NACE MR-0175 COMPLIANCE, MSS SP-97 CONCENTRIC REDUCER 4" X 6", SCH 160 X 80, BE, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, ANSI B16.9 CONCENTRIC REDUCER 2" X 4", SCH 80 X 160, BE, ASTM A860 WPHY Number 10 52, NACE MR-0175 COMPLIANCE, ANSI B16.9 PIPE NIPPLE I/2" x 4" LONG, NPT, 6000 PSI A106 GRADE B, ASME Number 25 B36.10, CONCENTRIC, BOTH ENDS MALE THREADED B1LIND FLANGE, 4", RTI, CLASS 600, SCH 80, ASTM A694 F52, NACE MR 0175 COMPLIANCE, ANSI B-16.5 FLANGE, 6", WN, RTI, CLASS 900, SCH 80, ASTM A694 F52, NACE MR 0175 COMPLIANCE, ANSI B-16.5 FLANGE, 4", WN, RTI, CLASS 900, SCH 80, ASTM A694 F52, NACE MR 0175 COMPLIANCE, ANSI B-16.5 FLANGE, 4", WN, RTI, CLASS 900, SCH 80, ASTM A694 F52, NACE MR 0175 COMPLIANCE, ANSI B-16.5 ELBOW 4", LR, BE, 90 DEG, SCH 80, ASTM A694 F52, NACE MR 0175 COMPLIANCE, ANSI B-16.5 EQUAL TEE 4", BE, SCH 80, ASTM A860 WPHY 52, NACE MR-0175 Number 50 COMPLIANCE, ANSI B16.9		MR 0175 COMPLIANCE, ANSI B-16.5			
56 CONCENTRIC REDUCER 4" X 6", SCH 160 X 80, BE, ASTM A860 WPHY 52, NACE MR -0175 COMPLIANCE, ANSI B16.9 57 CONCENTRIC REDUCER 2" X 4", SCH 80 X 160, BE, ASTM A860 WPHY Number 10 58 PIPE NIPPLE 1/2" x 4" LONG, NPT, 6000 PSI A106 GRADE B, ASME Number 25 B36.10, CONCENTRIC, BOTH ENDS MALE THREADED 59 BLIND FLANGE, 4", RTJ, CLASS 600, SCH 80, ASTM A694 F52, NACE MR 0175 COMPLIANCE, ANSI B-16.5 60 FLANGE, 6", WN, RTJ, CLASS 900, SCH 80, ASTM A694 F52, NACE MR 0175 COMPLIANCE, ANSI B-16.5 61 FLANGE, 4", WN, RTJ, CLASS 900, SCH 80, ASTM A694 F52, NACE MR 0175 COMPLIANCE, ANSI B-16.5 62 ELBOW 4", LR, BE, 90 DEG, SCH 80, ASTM A660 WPHY 52, NACE MR 0175 COMPLIANCE, ANSI B16.9 63 EQUAL TEE 4", BE, SCH 80, ASTM A860 WPHY 52, NACE MR 0175 COMPLIANCE, ANSI B16.9	p 5	WELDOLET 3/4" for 8" LINEPIPE, RATING 6000PSIG, ASTM A860 WPHY	Number	15	
52, NACE MR-0175 COMPLIANCE, ANSI B16.9 57 CONCENTRIC REDUCER 2" X 4", SCH 80 X 160, BE, ASTM A860 WPHY Number 10 52, NACE MR-0175 COMPLIANCE, ANSI B16.9 58 PIPE NIPPLE 1/2" x 4" LONG, NPT, 6000 PSI A106 GRADE B, ASME Number 25 B36.10, CONCENTRIC, BOTH ENDS MALE THREADED 59 BLIND FLANGE, 4", RTJ, CLASS 600, SCH 80, ASTM A694 F52, NACE MR Number 20 0175 COMPLIANCE, ANSI B-16.5 60 FLANGE, 6", WN, RTJ, CLASS 900, SCH 80, ASTM A694 F52, NACE MR Number 35 0175 COMPLIANCE, ANSI B-16.5 61 FLANGE, 4", WN, RTJ, CLASS 900, SCH 80, ASTM A694 F52, NACE MR Number 50 0175 COMPLIANCE, ANSI B-16.5 62 ELBOW 4", LR, BE, 90 DEG, SCH 80, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, ANSI B16.9 63 EQUAL TEE 4", BE, SCH 80, ASTM A860 WPHY 52, NACE MR-0175 Number 50 COMPLIANCE, ANSI B16.9	m .	52, NACE MR-0175 COMPLIANCE, MSS SP-97			
57 CONCENTRIC REDUCER 2" X 4", SCH 80 X 160, BE, ASTM A860 WPHY 52, NACE MR-0175 COMPLIANCE, ANSI B16.9 58 PIPE NIPPLE 1/2" x 4" LONG, NPT, 6000 PSI A106 GRADE B, ASME B36.10, CONCENTRIC, BOTH ENDS MALE THREADED 59 BLIND FLANGE, 4", RTJ, CLASS 600, SCH 80, ASTM A694 F52, NACE MR 0175 COMPLIANCE, ANSI B-16.5 60 FLANGE, 6", WN, RTJ, CLASS 900, SCH 80, ASTM A694 F52, NACE MR 0175 COMPLIANCE, ANSI B-16.5 61 FLANGE, 4", WN, RTJ, CLASS 900, SCH 80, ASTM A694 F52, NACE MR 0175 COMPLIANCE, ANSI B-16.5 62 ELBOW 4", LR, BE, 90 DEG, SCH 80, ASTM A860 WPHY 52, NACE MR- 0175 COMPLIANCE, ANSI B16.9 63 EQUAL TEE 4", BE, SCH 80, ASTM A860 WPHY 52, NACE MR-0175 Number 50 Number 50 Number 50 Number	56	CONCENTRIC REDUCER 4" X 6", SCH 160 X 80, BE, ASTM A860 WPHY	Number	5	
52, NACE MR-0175 COMPLIANCE, ANSI B16.9 FIPE NIPPLE 1/2" x 4" LONG, NPT, 6000 PSI A106 GRADE B, ASME B36.10, CONCENTRIC, BOTH ENDS MALE THREADED BLIND FLANGE, 4", RTJ, CLASS 600, SCH 80, ASTM A694 F52, NACE MR O175 COMPLIANCE, ANSI B-16.5 FLANGE, 6", WN, RTJ, CLASS 900, SCH 80, ASTM A694 F52, NACE MR O175 COMPLIANCE, ANSI B-16.5 FLANGE, 4", WN, RTJ, CLASS 900, SCH 80, ASTM A694 F52, NACE MR O175 COMPLIANCE, ANSI B-16.5 FLANGE, 4", WN, RTJ, CLASS 900, SCH 80, ASTM A694 F52, NACE MR O175 COMPLIANCE, ANSI B-16.5 ELBOW 4",LR, BE, 90 DEG, SCH 80, ASTM A860 WPHY 52, NACE MR- O175 COMPLIANCE, ANSI B16.9 G2 EQUAL TEE 4", BE, SCH 80, ASTM A860 WPHY 52, NACE MR- COMPLIANCE, ANSI B16.9				•	
58 PIPE NIPPLE 1/2" x 4" LONG, NPT, 6000 PSI A106 GRADE B, ASME B36.10, CONCENTRIC, BOTH ENDS MALE THREADED Number 25 59 BLIND FLANGE, 4", RTI, CLASS 600, SCH 80, ASTM A694 F52, NACE MR 0175 COMPLIANCE, ANSI B-16.5 Number 20 60 FLANGE, 6", WN, RTJ, CLASS 900, SCH 80, ASTM A694 F52, NACE MR 0175 COMPLIANCE, ANSI B-16.5 Number 35 61 FLANGE, 4", WN, RTJ, CLASS 900, SCH 80, ASTM A694 F52, NACE MR 0175 COMPLIANCE, ANSI B-16.5 Number 50 62 ELBOW 4", LR, BE, 90 DEG, SCH 80, ASTM A860 WPHY 52, NACE MR 0175 COMPLIANCE, ANSI B16.9 Number 06 60 63 EQUAL TEE 4", BE, SCH 80, ASTM A860 WPHY 52, NACE MR-0175 Number COMPLIANCE, ANSI B16.9 50	57	CONCENTRIC REDUCER 2" X 4", SCH 80 X 160, BE, ASTM A860 WPHY	Number	10	
B36.10, CONCENTRIC, BOTH ENDS MALE THREADED 59 BLIND FLANGE, 4", RTJ, CLASS 600, SCH 80, ASTM A694 F52, NACE MR Number 20 0175 COMPLIANCE, ANSI B-16.5 60 FLANGE, 6", WN, RTJ, CLASS 900, SCH 80, ASTM A694 F52, NACE MR Number 35 0175 COMPLIANCE, ANSI B-16.5 61 FLANGE, 4", WN, RTJ, CLASS 900, SCH 80, ASTM A694 F52, NACE MR Number 50 0175 COMPLIANCE, ANSI B-16.5 62 ELBOW 4",LR, BE, 90 DEG, SCH 80, ASTM A860 WPHY 52, NACE MR-Number 60 0175 COMPLIANCE, ANSI B16.9 63 EQUAL TEE 4", BE, SCH 80, ASTM A860 WPHY 52, NACE MR-0175 Number 50 COMPLIANCE, ANSI B16.9	50				
BLIND FLANGE, 4", RTJ, CLASS 600, SCH 80, ASTM A694 F52, NACE MR Number 20 0175 COMPLIANCE, ANSI B-16.5 60 FLANGE, 6", WN, RTJ, CLASS 900, SCH 80, ASTM A694 F52, NACE MR Number 35 0175 COMPLIANCE, ANSI B-16.5 61 FLANGE, 4", WN, RTJ, CLASS 900, SCH 80, ASTM A694 F52, NACE MR Number 50 0175 COMPLIANCE, ANSI B-16.5 62 ELBOW 4", LR, BE, 90 DEG, SCH 80, ASTM A860 WPHY 52, NACE MR Number 60 0175 COMPLIANCE, ANSI B16.9 63 EQUAL TEE 4", BE, SCH 80, ASTM A860 WPHY 52, NACE MR-0175 Number 50 COMPLIANCE, ANSI B16.9	P8	PIPE NIPPLE 1/2" x 4" LONG, NPT, 6000 PSI A106 GRADE B, ASME	Number	25	
0175 COMPLIANCE, ANSI B-16.5 60 FLANGE, 6", WN, RTJ, CLASS 900, SCH 80, ASTM A694 F52, NACE MR Number 35 0175 COMPLIANCE, ANSI B-16.5 61 FLANGE, 4", WN, RTJ, CLASS 900, SCH 80, ASTM A694 F52, NACE MR Number 50 0175 COMPLIANCE, ANSI B-16.5 62 ELBOW 4",LR, BE, 90 DEG, SCH 80, ASTM A860 WPHY 52, NACE MR Number 60 0175 COMPLIANCE, ANSI B16.9 63 EQUAL TEE 4", BE, SCH 80, ASTM A860 WPHY 52, NACE MR-0175 Number 50 COMPLIANCE, ANSI B16.9	50	B36.10, CONCENTRIC, BOTH ENDS MALE THREADED			
60 FLANGE, 6", WN, RTJ, CLASS 900, SCH 80, ASTM A694 F52, NACE MR Number 35 0175 COMPLIANCE, ANSI B-16.5 61 FLANGE, 4", WN, RTJ, CLASS 900, SCH 80, ASTM A694 F52, NACE MR Number 50 0175 COMPLIANCE, ANSI B-16.5 62 ELBOW 4",LR, BE, 90 DEG, SCH 80, ASTM A860 WPHY 52, NACE MR-Number 60 0175 COMPLIANCE, ANSI B16.9 63 EQUAL TEE 4", BE, SCH 80, ASTM A860 WPHY 52, NACE MR-0175 Number 50 COMPLIANCE, ANSI B16.9	99	BLIND FLANGE, 4", RTJ, CLASS 600, SCH 80, ASTM A694 F52, NACE MR	Number	20	
0175 COMPLIANCE, ANSI B-16.5 61 FLANGE, 4", WN, RTJ, CLASS 900, SCH 80, ASTM A694 F52, NACE MR Number 50 0175 COMPLIANCE, ANSI B-16.5 62 ELBOW 4",LR, BE, 90 DEG, SCH 80, ASTM A860 WPHY 52, NACE MR- Number 60 0175 COMPLIANCE, ANSI B16.9 63 EQUAL TEE 4", BE, SCH 80, ASTM A860 WPHY 52, NACE MR-0175 Number 50 COMPLIANCE, ANSI B16.9	60				
61 FLANGE, 4", WN, RTJ, CLASS 900, SCH 80, ASTM A694 F52, NACE MR Number 50 0175 COMPLIANCE, ANSI B-16.5 62 ELBOW 4", LR, BE, 90 DEG, SCH 80, ASTM A860 WPHY 52, NACE MR Number 60 0175 COMPLIANCE, ANSI B16.9 63 EQUAL TEE 4", BE, SCH 80, ASTM A860 WPHY 52, NACE MR-0175 Number 50 COMPLIANCE, ANSI B16.9	60		Number	35	
0175 COMPLIANCE, ANSI B-16.5 62 ELBOW 4",LR, BE, 90 DEG, SCH 80, ASTM A860 WPHY 52, NACE MR— Number 0175 COMPLIANCE, ANSI B16.9 63 EQUAL TEE 4", BE, SCH 80, ASTM A860 WPHY 52, NACE MR—0175 Number COMPLIANCE, ANSI B16.9	C1				
62 ELBOW 4",LR, BE, 90 DEG, SCH 80, ASTM A860 WPHY 52, NACE MR— Number 60 0175 COMPLIANCE, ANSI B16.9 63 EQUAL TEE 4", BE, SCH 80, ASTM A860 WPHY 52, NACE MR—0175 Number 50 COMPLIANCE, ANSI B16.9	61		Number	50	
0175 COMPLIANCE, ANSI B16.9 63 EQUAL TEE 4", BE, SCH 80, ASTM A860 WPHY 52, NACE MR-0175 Number 50 COMPLIANCE, ANSI B16.9					
63 EQUAL TEE 4", BE, SCH 80, ASTM A860 WPHY 52, NACE MR-0175 Number 50 COMPLIANCE, ANSI B16.9	62		Number	60	
COMPLIANCE, ANSI B16.9	62				
CA COMPANIAN DE CONTROL DE CONTRO	0.3	EQUAL TEE 4", BE, SCH 80, ASTM A860 WPHY 52, NACE MR-0175	Number	50	
D4 AS IN A 193 B / S I I I DS WITH TWO AS IM A 10/17H HEY NITTS SIZE M20 Number 420	C 1	COMPLIANCE, ANSI B16.9			
VAMOS CADIMINADA ASSIDA ASSIDA NA PARAMANA ZATI TILA NO 13 SIZE M30 Number 420		ASTM A193 B7 STUDS WITH TWO ASTM A194 2H HEX NUTS SIZE M30	Number	420	10 1 10 1
X M195 CADMIUM PLATED, ASME B18.2.2 65 HEX HEAD SOLID PLUG 3/4" NPT RATING 6000PSIG ASTM A 860 Number 20	65	A M193 CADMIUM PLATED, ASME B18.2.2			the n. / Iv
10/0 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4	03	MEN DEAD SOLID PLUG, 3/4" NPT, RATING 6000PSIG, ASTM A860	Number	30	Jell Mr. 10Xxxx
WPHY 52, NACE MR-0175 COMPLIANCE, ASME B16.11 66 WELDOLET 2" for 10" LINEPIPE, RATING 6000PSIG, ASTM A860 WPHY Number 10	66	WELDOLET 2" for 10" I DIEDIDE DA WING COORDIG A CONTROL			MI - Chad All & FD
Tumber 1/P	00		Number	10	Muhanin' PE
52, NACE MR-0175 COMPLIANCE, MSS SP-97 67 FLANGE, 8", WN, RTJ, CLASS 900, SCH 80, ASTM A694 F52, NACE MR. Number 120	67				Mechano
		PLANUE, 6, WIN, RTJ, CLASS 900, SCH 80, ASTM A694 F52, NACE MR	Number	120	DCE Ext. 201
0175 COMPLIANCE, ANSI B-16.5 68 ECCENTRIC REDUCER 8" X 4", SCH 80 BE ASTM A860 WPHY 52 Number 75 2					
68 ECCENTRIC REDUCER 8" X 4", SCH 80, BE, ASTM A860 WPHY 52, Number Page 3	00	ECCENTRIC REDUCER 8" X 4", SCH 80, BE, ASTM A860 WPHY 52,	Number	Page 3	

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

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

ANNEXURE 'A'

Material

PROCUREMENT OF VALVES, BENDS, FITTINGS, ANTI CORROSION TAPE , ISOLATING MATERIAL & ACCESS FITTINGS

Tender Enquiry No

PROC-FB/CB/PE&FD-4615/2020

Due Date

Evaluation Criteria

GROUP WISE

ASSEMBLY.

Group	C
OLVUD	•

	NACE MR-0175 COMPLIANCE, ANSI B16.9			
Group) D	**************************************	***************************************	
69	THERMOWELL 3/4" for 4" SCH 160 LINEPIPE.	Number	10	
70	ANCHOR FLANGE,6", Class 900, SCH 80, A-694, F52, NACE MR 0175 COMPLIANCE, ANSI B16.5	Number	10	
71	ANCHOR FLANGE,8", Class 900, SCH 80, A–694, F52, NACE MR 0175 COMPLIANCE, ANSI B16.5	Number	10	
72	MONOLITHIC INSULATING JOINT 4"SCH-80 for API 5L X52NS CLASS 900 LINEPIPE, DESIGN CODE: ANSI B31.8 NACE MR-0175 COMPLIANCE	Number	10	••
73	MONOLITHIC INSULATING JOINT 8" SCH-80 for API 5L X52NS CLASS 900 LINEPIPE, DESIGN CODE: ANSI B31.8, NACE MR-0175 COMPLIANCE	Number	15	,
74	HIGH PRESSURE ACCESS FITTING ASSEMBLY, FLARE WELD 2" SYSTEM, WITH SOLID PLUG, NON TEE TYPE	Number	15	
75	ANCHOR FLANGE,4", Class 900, SCH 80, A-694, F52, NACE MR 0175 COMPLIANCE, ANSI B16.5	Number	5	
76	MONOLITHIC INSULATING JOINT 6" SCH-80 for API 5L X52NS CLASS 900 LINEPIPE, DESIGN CODE: ANSI B31.8, NACE MR-0175 COMPLIANCE	Number	10	
77	HIGH PRESSURE ACCESS FITTING ASSEMBLY, FLARE WELD 2" SYSTEM, WITH HOLLOW PLUG, NON TEE TYPE	Number	15	
78	HIGH PRESSURE ACCESS FITTING ASSEMBLY, FLARE WELD 2" SYSTEM, WITH INJECTION QUILL ASSEMBLY, TEE TYPE	Number	8	
Group			***************************************	
79	PVC MECHANICAL PROTECTION TAPE (OUTER WRAP) 100 MM X 10 METERS, MINUMUM THICKNESS 0.5 MM. SPECIFICATIONS AS PER APPENDIX-1	Rolls	550	
80	PVC MECHANICAL PROTECTION TAPE (OUTER WRAP) 50 MM X 5 METERS, MINIMUM THICKNESS 0.5 MM. SPECIFICATIONS AS PER APPENDIX-1	Rolls	375	
81	VISCOELASTIC ANTI-CORROSION ADHESIVE TAPE (INNER WRAP) 100 MM X 10 METERS, MINUMUM THICKNESS 1.5 MM. SPECIFICATIONS AS PER APPENDIX-1	Rolls	375	
82	VISCOELASTIC ANTI-CORROSION ADHESIVE TAPE (INNER WRAP) 50 MM X 5 METERS, MINIMUM THICKNESS 1.5 MM. SPECIFICATIONS AS PER APPENDIX-1	Rolls	250	red 1
	DEL MEDIA DEDAGO DOS TANGOS TORAS			ie tel

Note: DELIVERY PERIOD FOR THESE ITEMS IS FOUR (04) MONTHS ON C&F BY SEA KARACHI FROM THE DATE OF L/C IS ESTABLISHED.

Winyauway be a

TE#PROC-FB/CB/PPE&FD-4615/2020

Annexure-A

NOTE:

01: PAYMENT WILL BE MADE AS PER THE FOREIGN PROCUREMENT PAYMENT TERMS AVAILABLE AT

OGDCL WEBSITE (TENDERS TAB) EFFECTIVE FROM FEBRUARY 27, 2018.

02: PURSUANT TO TENDER CLAUSE # 2.2, 11.4, 13 & 35.3.2, A BID BOND MUST BE SUBMITTED WITH THE

TECHNICAL BID AND IT MUST BE VALID FOR 150 DAYS FROM THE DATE OF OPENING OF THE BID.

AMOUNT OF BID BOND FOR EACH GROUP IS MENTIONED BELOW:

GROUP-A: VALVES = US\$ 3,50/-

GROUP-B: BENDS = US\$ 2,000/-

GROUP-C: FITTINGS =US\$ 2,500/-

Group D: ISOLATION MATERIAL & ACCESS FITTINGS ASSEMBLY= US\$ 1,600/-

Group E: ANTI CORROSION TAPE = US\$ 400/-

03. BID BOND, PERFORMANCE BOND ETC. IN SHAPE OF PAY ORDERS (PO) / CASH DEPOSIT RECEIPTS (CDR)

/ DEMAND DRAFTS (DD) ISSUED BY A PAKISTANI SCHEDULED BANK OR A BRANCH OF A FOREIGN BANK

OPERATING IN PAKISTAN (LISTED OR NOT LISTED AT PAKISTAN STOCK EXCHANGE) IRRESPECTIVE OF ITS

MARKET PRICE PER SHARE AT PAKISTAN STOCK EXCHANGE SHALL BE ACCEPTED.

HOWEVER, BID BOND AND PERFORMANCE BOND ETC. IN SHAPE OF BANK GUARANTEE SHALL NOT BE

ACCEPTABLE WITH THE BANKS WHOSE MARKET PRICE PER SHARE IS QUOTED BELOW THE PAR VALUE AT

THE PAKISTAN STOCK EXCHANGE.

Muhammad Arif DCE (Mech .) PE & FD Ext . 2810

TECHNICAL SPECIFICATIONS VISCOELASTIC COATING MATERIAL

1. Introduction

- 1.1 This specification defines OGDCL minimum requirements for non-crystalline low-viscosity polyolefin (visco elastic) based wrap coating materials to be used for the corrosion protection of steel pipes for a design temperature of 70°C. The wrapping materials shall form an effective coating and sealing system. It shall be utilized to coat pipe, joints, service Tees, fittings and other exposed metal surface to protect them from corrosion in conjunction with cathodic protection.
- 1.2 The coating system shall consist of:
 - 1.2.1 A corrosion protection Inner Wrap tape
 - 1.2.2 A mechanical protection PE Outer Wrap tape

2. <u>Definitions</u>

- 2.1 OWNER OGDCL, Pakistan
- 2.2 MANUFACTURER/SUPPLIER/MANUFACTURER The party which manufacturers and/or supplies equipment, technical documents/drawings and services to perform the duties specified by MANUFACTURER/SUB MANUFACTURER.

3. Errors or Omissions

- 3.1 The review and comment by Owner of any drawings, procedures or documents referred to in this Specification shall only indicate a general requirement and shall not relieve the Manufacturer of his obligations to comply with the requirements of the Standards.
- 3.2 Any error or omissions noted by Manufacturer shall be immediately brought to the attention of the Owner.

4. Deviations

4.1 All deviations to this Specifications, other Specifications or attachments shall be brought to the knowledge of the Owner in the bid. All deviations made during the procurement, design, manufacture, testing and inspection shall be with written approval of the Owner prior to execution of the work. Such deviation shall be shown in the documentation prepared by the Manufacturer. Any technical deviations to the Specifications and its attachments including, but not limited to, the Data Sheets and Narrative Specifications shall be obtained by the MANUFACTURER only through CONCESSION REQUEST format. CONCESSION REQUESTS require the COMPANY's review/approval prior to implementation of the proposed changes. Technical changes implemented prior to the COMPANY approval are subject to rejection.

5. Conflicting Requirements

5.1 In the event of conflict, inconsistency or ambiguity between the contract scopes of work, this Specification, National Codes & Standards referenced in this Specification or any other documents, the most stringent requirement shall prevail.

Muhammad Arif & FD

Muhammad Arif

Muhammad Arif

Mech) PE & FD

DCE (Mech 2810

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6. Third Party inspection

6.1 Owner may appoint Inspector's to carry out witness testing of the product manufactured at the manufacturer's facility prior to shipment. Owner may appoint a third party or its own inspector for witnessing of the inspection and test to be carried out at the manufacturer's facility under this specification.

7. Quality System

- 7.1 The MANUFACTURER, which definition shall include Manufacturer's, Sub Manufacturers, and suppliers, shall have in effect at all times a QA/QC program certified according to the latest issue of ISO9000/9001. A copy of the ISO certificate verifying conformance to the ISO standards shall be submitted by MANUFACTURER with his offer. Persons performing quality functions shall have sufficient and well defined authority to enforce quality requirements that initiate, identify, recommend and provide solutions to quality problems and verify the effectiveness of the corrective action.
- 7.2 A copy of the MANUFACTURER's QA/QC program shall be submitted to the OWNER with its quotation for OWNERS'S review and concurrence prior to award. If MANUFACTURER's QA/QC program and facility, where the work is to be performed, is ISO 9000 certified, then only a copy of the MANUFACTURER's ISO 9000 certificate is required. In addition, if MANUFACTURER's facility is ISO certified, MANUFACTURER's QA audit requirements will be waived in favor of ISO 9000 registrar audits, unless the MANUFACTURER's trend analysis program indicates areas of concern.
- 7.3 The MANUFACTURER shall identify in purchase documents to its SUBMANUFACTURERS all applicable QA/QC requirements imposed by the MANUFACTURER, and shall ensure compliance thereto. On request, MANUFACTURER shall provide objective evidence of its QA/QC surveillance of its SUBMANUFACTURER's activities.
- 7.4 The MANUFACTURER shall submit certified reports of production tests with the materials delivered.
- 7.5 The OWNER reserves the right to inspect materials and workmanship at all stages of manufacture and to witness any or all tests. The MANUFACTURER, shall provide the OWNER with a copy of its Manufacturing and Inspection Plan for review and inclusion of any mandatory OWNER witness points 30 days after award but prior to the pre-inspection meeting.

Muhammad Arif & FD

Muhammad Ape & FD

OCE (Mecr. 2810)

8. CODES, STANDARDS AND SPECIFICATIONS

- 8.1 The latest editions of the following Specifications, National or Industry Codes and Standards shall, to the extent specified herein, form a part of this Specification.
- 8.2 The materials, application, inspection and testing, where relevant, shall meet the requirements of the latest editions of these codes and Standards:
 - ISO 11357-2 Plastics Differential scanning calorimetry (DSC) Part 2: Determination of glass transition temperature and glass transition step height
 - ISO 11357-3 Plastics Differential scanning calorimetry (DSC) Part 3: Determination of of temperature and enthalpy of melting and crystallization
 - ISO 21809-3:2016 Petroleum and natural gas industries External coatings for buried or submerged pipelines used in pipeline transportation systems

9. Notes:-

- 9.1 Bidder must conform to the specified tender terms.
- 9.2 Brand new and unused Corrosion and Mechanical Pretention Tape. Should be quoted. Reconditioned and refurbished material will not be acceptable.
- 9.3 The bidder shall clearly indicate names, addresses of manufacturers and country of origin instead of showing group of countries or manufacturers.
- 9.4 Reservations/clarifications, if any w.r.t tender terms/specifications should be asked by the bidders 7 days prior to the closing date of the tender.

10. GENERAL REQUIREMENT

Cold applied, Primer-less Visco elastic wrap coating materials based on non-crystalline low viscosity polyolefin tapes with self-healing characteristics along with polymeric tape wrap used for the corrosion prevention of steel pipe network. It should be easily applicable to irregular shape fittings i.e. weld joints, bends and service tees in underground Oil and Gas Piping networks with minimum surface preparation requirement. The coating system shall consist of:

- 10.1 A corrosion prevention inner wrap, non-toxic that has cold-flow, self-healing, visco-elastic properties.
- 10.2 A mechanical protection outer wrap that has flexible cold applied tape, self-adhesive and shall have Polyethylene base.

The coating should be compatible with three layers PE coating on steel pipelines.

11. Composition:

- 11.1 The Viscoelastic Tape should be reinforced with inert fiber matrix. The tape roll must be formulated with a removable plastic film on one sided adhesive part ready for removal during application.
- 11.2 The properties of the outer wrap for mechanical protection should be such that it should provide additional pressure to support cold flow of the compound tape and self-healing properties of complete coating system.

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12. APPLICATION

- 12.1 The application should be easier and fast. The coating should be compatible with Asphalt Enamel, Coal tar Enamel and three layers Polyethylene coating on the steel pipelines. The tape should have good resistance to Acids, Alkali, Salts, Fungus, soil Bacteria & Root Pressure and tape should conform to the specifications of this tender.
- 12.2 The tape system shall be applicable in the following ambient conditions:

• Application temperature

-10 °C to +70 °C

Operating temperature

0 °C to +70 °C

13. WRAP DIMENSIONS

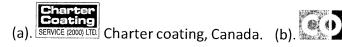
The wrapping materials shall be of the dimensions as per SOR.

14. TRACK RECORD

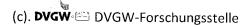
14.1 The tape wrap system offered shall have a track record of satisfactory performance for a period of at least five years worldwide to at least 05 International customers with at least two from Pakistan. Bidder shall provide details of projects/ customers which have used the specific product. At least five Supply Order copies of international customers with at least two from Pakistan to be attached with bid. The referred customers contact information/email address and letter/certificate of satisfaction should also be attached with the bid.

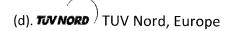
15. CERTIFICATION AND TEST REPORT REQUIREMENT

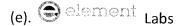
- 15.1 Bidders shall submit along with his bid, a detailed test report from independent qualified test laboratories listed below confirming that the material supplied to international customers meet the ISO21809-3 standard for viscoelastic coatings and these specifications. Supply Order copy and its test report copy to be submitted with the bid. Failure to submit such test reports with the bid shall be adequate cause for disqualification.
- 15.2 Bidder should also confirm that a detailed test report from one of the independent qualified test laboratories listed below will be provided before shipment of material (in case of award of contract) confirming that the material being supplied meets the ISO21809-3:2016 standard for viscoelastic coatings and these specifications. Failure in submission of this certificate prior to shipment will result in rejection of material.
- 15.3 The following laboratories are among those who are qualified to perform tests and issue certificates of compliance to those technical requirements;











(f). Intertek, Europe/US

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16. STORAGE

16.1 Material shall be suitable for storage at ambient temperatures ranging up to 55°C with 90% humidity. Under such storage condition of temperature and humidity, the material shall NOT show deterioration of any kind that would render the material unsuitable as an anti-corrosion material.

17. SAMPLES:

17.1 The bidder shall submit sample of material offered consisting of one roll of each type and size of tape and third party test reports of the offered product from from any laboratory mentioned at Sr. 6 above free of cost with bid. The width and length of tapes and the core size and material and inter leavings of the sample rolls must be in accordance with the specifications given in the tender documents.

18. Inspection of goods on delivery:

- 18.1 In order to ensure that the materials offered is actually as per supplied sample. OGDCL shall have the right at any time to go for Infra-Red Spectroscopy Testing of the material to be supplied or being supplied and have right to reject the supplied lot if found any discrepancy.
- 18.2 OGDCL will have the right for material inspection of the sample received along with bid offers and of the material supplied against supply order. The results of the test inspections can be compared/certified with Material test repot of the supplier (s) in conformance with the applicable standard. OGDCL will have the right to reject the supplied lot if found any discrepancy. The test report of the OGDCL will be firm and final.
- 18.3 Any deviations reported thereof from field during application shall also be liable of material rejection and the supplier shall be responsible to replace the defective material with the approved material with no financial expenses to OGDCL.

19. Guarantee:

19.1 The supplier should submit an under taking confirming that the offered/supplied material "VISCOELASTIC ANTI-CORROSION ADHESIVE TAPE" and "PVC MECHANICAL PROTECTION TAPE" shall perform not less than 20 years.

20. PACKING AND MARKING:

- 20.1 Tapes shall be packed in weather proof reinforced cartons. Reinforced cartons shall be packed on wooden pallets covered with weather proof covering.
- 20.2 Each carton and pallet to be clearly marked with the size of tape and the type of tape.

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21. Technical Specifications (Viscoelastic Inner Wrap)

Property	Test Temp.	Unit	Requirements	Test Method	Value of offered product
Minimum Thickness	23°C	mm	≥1.5mm	ISO 21809- 3:2016 Annex B	
Tensile Strength	23°C	N/cm	≥ 40 N/cm	ASTM D-1000	
Density	23°C	g/cm³	1.4~1.6	ISO 1183-1	
Glass Transition Temperature		°C	<-30°C	ISO 11357-2	
Melting Point and Crystallization Point		°C	No melting or crystallization point present	ISO 11357-3	
Holiday detection at 5 kV/mm + 5 kV, max. 25 kV			No Holiday	ISO 21809- 3:2016 Annex C	
Drip Resistance	T _{max} + 20°C		No dripping of compound	ISO 21809- 3:2016 Annex K	
Adhesion test of reinforced compound with respect to steel and to plant coating before and after thermal ageing and before and after hot water immersion, both for 100 days at T _{max} +20°C.	23°C T _{max}	N/mm N/mm	≥0.04 ≥0.02 Cohesive Separation mode coverage ≥95%	ISO 21809- 3:2016 Annex H, M and I)	
Adhesion test of compound without reinforcement to steel and to plant coating before and after thermal ageing and before and after hot water immersion test both for 100 days at Tmax + 20 °C	23 °C Tmax		The coating shall leave a film of compound on the substrate. There shall be no evidence of adhesive failure	ISO 21809- 3:2016 Annex H, M and I)	
Dielectric Strength	23°C	Kv/mm	≥10	ASTM D-149	
Lap Shear Strength	23°C T _{max}	N/mm² N/mm²	≥0.004 ≥0.002 Cohesive failure coverage ≥95%	ISO 21809- 3:2016 Annex J	
Specific Electrical Insulation Resistance	23°C	Ω .m ²	$R_{s100} \ge 10^8$ $R_{s100}/R_{s70} \ge 0.8$	ISO 21809- 3:2016 Annex F	
Moisture Absorption	23°C	%	≤0.03	ASTM D-570	

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22. <u>Technical Specifications (Outer Wrap – Polymeric Tape)</u>

Property	Test Temp	Unit	Requirement	Test Method	Value of Offered Product
Peel Strength of outer wrap to	23°C	N/mm	≥ 0.2	ISO 21809-	
outer wrap.	T _{max}	N/mm	≥ 0.02	3:2016 Annex-H	
Peel strength (P'_{100}/P'_{0}) of outer	T _{max} +	-	≥ 0.75	ISO 21809-	
wrap layer to outer wrap layer	20 °C			3:2016	
after hot water immersion for 100				Annex L and	
days at T _{max} + 20 °C				Annex I	
Elastic Modulus (E_{100}/E_0)	T _{max} +			ISO 21809-	
after thermal ageing test for 100	20 °C	_	≥ 0.75	3:2016 Annex	
days at T _{max} + 20 °C.				M.	
Peel strength ((P'100/ P'0) of outer	T _{max} +			ISO 21809-	
wrap layer to outer wrap layer after	20 °C	-	≥ 0.50	3:2016 Annex	
thermal ageing for 100 days at T _{max}				M & I and	
+ 20 °C				ISO 527-3:2018	
Moisture Absorption	23°C	%	≤0.03	ASTM D-570	
Impact Resistance		Joule	>15J,	ISO 21809-3:	
				2016 Annex-D	
Tape thickness			0.5mm +/-		
			0.055mm		
Tensile strength			>10kg/25mm	ASTM D-1000	
Elongation at Break		%	200-300	ASTM D-1000	
Service temperature		77.780-200	-15 °C to+70 °C		

23. <u>Technical Specifications (Complete Coating)</u>

Property	Test Temp	Unit	Requirement	Test Method	Value of Offered Product
Impact Resistance	23 °C	J	≥ 15	ISO 21809- 3:2016 Annex-D	
Indentation resistance, pressure Residual thickness	23 °C T _{max}	N/mm ² N/mm ² mm	10 ≥ 0.6	ISO 21809- 3:2016 Annex E	
Cathodic disbandment resistance after 28 days	23 °C and T _{max}	mm	0 mm, Self healing	ISO 21809- 3:2016 Annex G & Annex C	

Note:-

- i. For the purpose of this specification, T_{max} for inner/outer wrap shall be 70°C.
- ii. All test reports of para 21, 22 and 23 to be shared before shipment.

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Documents submission check List

Bidder to submit following documents with technical bid for technical evaluation:

Sr.No	Description	Attached (Yes/No)	Page No.
1	Name, address, contact numbers, contact person name, valid email address and website address of Bidder.		
2	Name, address, contact numbers, contact person name, valid email address and website address of Manufacturer.		
3	Authority Letter of bidder in favor of local agent.		
4	Authority Letter of Manufacturer in favor of bidder.		
5	Valid API 5L Certificate with Service Annexure H (API 5L Certificate No. to be mentioned) of Line Pipe Manufacturer for Factory Bends.		
6	Bidder's supply record of quoted material to International E&P companies during last 5 years. (please be specific to provide only the relevant record)		
7	Copies of purchase orders of bidder for supply of quoted material (03Nos.) to International E&P companies.		
8	Copies of third party inspection reports (03 Nos.) of bidder for supply of quoted material (03Nos) to International E&P companies.		
9	Equipment details of Manufacturer.		
10	Audited financial statements for last three years of bidder.		
11	Auditing firm name, address, contact numbers, email address and website address of auditing firm of bidder.		
12	Occupational Health & Safety Management System Certificate of Manufacturer.		
13	Quality Management System Certificate of Manufacturer.		
14	Printed Catalogue of Manufacturer for quoted material.		
15	Business License of Bidder.		
16	Business License of Manufacturer.		
17	Valid API 6D certificate for Ball and Gate Valves Manufacturers.		
18	For globe valves, ASME B 16.34 design standard should be used.		

Note:

- 1. Bid documents should be signed and stamped by bidder and should be properly tagged and numbered.
- 2. Documents submission check list as Annexure "1" duly filled, signed and stamped by bidder should be placed at start of the bid.
- **3.** Bid should be submitted in book binding form.
- **4.** Contents of the authority letter should include the following:
 - a. Contract number.
 - b. Supply of new material as per tender specification.
 - c. Signed / Stamped by manufacturer.
 - d. Contact details (Name, address, telephone numbers, and email).
 - e. Delivery schedule.
 - f. List of documents provided by manufacturer.
- 5. API 5L scope should include supply of X52 NS, PSL2, Annex H pipe.
- **6.** Note: Each document submitted with the bid or in response to clarifications should be in English language or Legally acceptable English Translation clearly readable.

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TERMS AND CONDITIONS

Sr. No.	Description	Bidder's compliance
1	Bid should be submitted in book binding form with page number marked on each page.	
2	The submitted bid should have covering page mentioning detail of documents of the bid along with their page numbers.	
3	Bidders have to quote the material from the manufacturer having manufacturing experience of minimum five years.	
	Bidder has to provide following documents of their quoted manufacturers.	
	i. Company profile clearly mentioning manufacturing same type of goods for which bid is submitted.	
4	ii. Establishment date of company	
	iii. Manufacturing experience iv. Website address:	
	v. Manufacturer's contact person name and his official email address	
	vi. Postal address.	
5	Provision of authority letter from manufacturer in favor of bidder.(if bidder is not the	
	manufacturer of the goods)	
6	Bidder must mention the manufacturer name against each group/item in his bid.	
	Bidder has to provide the supply record for the last 05 years in following format for each group.	
	i. Name of the company to whom material supplied	
	ii. Year of supply	
7	iii. Type of material supplied mentioning sizes and pressure ratingsiv. Amount of the consignment	
	v. E-mail and contact No. of the purchaser.	
	vi. Provision of copies of at least 10 Nos. of purchase orders with 02 Nos. of each year from	
	the last 05 years projects as per provided supply record.	
8	Bids of any manufacturer, whose material malfunctioned after installation against any previous	
	contracts awarded by OGDCL, shall be rejected.	
	All the material has to be compliant with NACE MR 0175. Bidder has to confirm that at the time	
9	of delivery, NACE MR 0175 certificate and HIC & SSC tests certificate shall be provided for all	
	the material. Bidder to confirm that NACE MR 0175 shall be embossed on material provided.	
10	Bidder has to provide the valid ISO 9001:2000 quality certificates of the manufacturer.	
11	Bidder to provide the technical literature of manufacturer against each item.	
12	Delivery period shall be Max-120 days after L/c Establishment C & F by sea Karachi.	
13	Bidder has to provide the financial audit report of last 03 years along with technical proposal of	
13	bidder and manufacturer.	
14	Bidder to confirm from the manufacturer that all the material shall be brand new and not	
	refurbished.	
	Bids inclusive of all the documents and correspondence shall be in English language. Other	
15	language shall be treated as irrelevant unless the legally acceptable English translation copies are	
	provided in the bid.	
16	Bidder to confirm that material shall be packed prior to shipment in accordance to code and standard.	
17	For the factory bends, bidder must provide valid API-5L certificate with service annexure-H of the line pipe manufacturer.	-
18	For Ball and Gate Vales, valid API 6D certificate of manufacturer to be submitted with bid.	****
19	Bidder to confirm and provide all the information/documents as asked in Documents Submission List "Annexure-1".	

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