

INDENT NO. 08-12-4137

DESCRIPTIONS: Well Head & X-Mass Tree

Item No.	Description	Unit	Qty.
1	WELL HEAD & X-MASS TREE COMPLETE SET ASSAY 13 3/8" * 9 5/8" * 7" * 3 1/2" VAGT 5000 PSI W.P ACCORDING TO API 6A , LASTED EDITION & NACE MR 0175 WITH API MONOGRAMED FOR EACH COMPONENT EACH SET CONSIST OF :-	SET	15
1.1	CASING HEAD HOUSING		
1.1.1	CASING HEAD HOUSING 13 5/8" API -5000 PSI BX-160 *13 3/8 CASING S.O.W WITH TWO 2" LP SIDEOUTLETS @ 180. (PSL:2,PR:2 M.C:EE,T,C:U)(AISI 4130 FORGED ALLOY) with Dual 45° shoulder .	NOS	1
1.1.2	CASING HANGER 13 5/8" * 9 5/8" SLIP & SEAL ASSAY, (PSL:2,PR:2,M.C:EE,T,C:U) (AISI 4130 FORGEDAISI 410S/S+VITON)	NOS	1
1.1.3	GATE VALVE 2 1/16" API-5000 PSI SCREW END FULL BORE THROUGH CONDUIT, NON-RISING STEM BACK SEATED, METAL TO METAL SEALING BODY/SEATS/GATE , H.W.O, (PSL:2,PR:2 ,M.C:EE,T,C:U)(AISI 4130 FOR BODY, AISI 410 FOR SEAT& GATE) .	NOS	1
1.1.4	BULL PLUG 2" LP TAPPED 1/2" NPT. (AISI 4130 FORGED)	NOS	2
1.1.5	2" LP NIPPLE * 8" LENGTH INTERNALLY THREADED W/VR PLUG. (AISI 4130 FORGED) .	NOS	1
1.1.6	NEEDLE VALVE 1/2" NPT MALE x FEMALE, 5000PSI W.P (S/S).	NOS	2
1.1.7	PRESSURE GAUGE (0-5000 PSI) W.P x 1/2" NPT, 3 1/2" OD FACE (S/S CASE) .	NOS	2
1.1.8	RING GASKET API BX-160(AISI 316 S/S).	NOS	1
1.1.9	SET OF(16) STUDS BOLT C/W TWO NUTS (1 5/8" * 12 ^{1/2"} LENGTH) ZINC PLATED (A193-B7, A194-2H) .	SET	1
1.2	CASING HEAD SPOOL		

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1.2.1	CASING HEAD SPOOL (1) 13 5/8" API-5000 PSI ,BX-160 BOTTOM FLANGE *11" API-5000 PSI,RX-54. TOP FLANGE W/ TWO STUDDED SIDE OUTLET 2 1/16" API-5000 PSI @ 180 W/VR THREADING PLUG. W/VR PLUG W/SECONDRAY DOUBLE (P) SEAL FOR 95/8" CASING W/ PLASTIC PACKING STICKS (PSL:3,PR:2 ,M.C:EE,T.C:U , AISI 4130 FORGED ALLOY). with Dual 45° shoulder	NOS	1
1.2.2	CASING HANGER 11"X7" SLIP & SEAL ASSAY(PSL:3,PR:2, M.C:EE,T.C:U, AISI 4130 FORGED AISI 410 S/S+VITON).	NOS	1
1.2.3	D/F GATE VALVE 2 1/16" API-5000 PSI , RX-24 FULL PORE , THROUGH CONDUIT , SLAB GATE NON- RISING STEM BACK SEATED METAL TO METAL SEAL BODY/SEAT/GATE H.W.O(PSL:3,PR:2,M.C:EE,T.C:U , AISI 4130 FOR BODY) .	NOS	1
1.2.4	COMPANION FLANGE 2 1/16" API-5000 PSI , RX-24 W.P. , 2" LP THREAD(AISI 4130 FORGED) .	NOS	2
1.2.5	BULL PLUG 2" LP,TAPPED 1/2" NPT(AISI 4130 FORGED) .	NOS	2
1.2.6	NEEDLE VALVE 1/2" NPT MALE x FEMALE, 5000 PSI W.P (S/S) .	NOS	2
1.2.7	PRESSURE GAUGE (0-5000 PSI) W.P x 1/2" NPT, 4 1/2" OD FACE (S/S CASE) .	NOS	2
1.2.8	RING GASKET API RX-54 (AISI 316 S/S) .	NOS	1
1.2.9	RING GASKET API RX-24 (AISI 316 S/S).	NOS	3
1.2.10	SET OF(12) STUDS BOLT C/W TWO NUTS (1 7/8" * 13 3/4" LONG) ZINC PLATED (A193 B7 A194 -2H) .	SET	1
1.2.11	SET OF (8) STUDS BOLT WITH TWO NUTES (7/8" * 6 " LONG) ZINC PLATED (A193 B7 A194 -2H).	SET	1
1.3	TUBING HEAD		
1.3.1	TUBING HEAD 11" API-5000 PSI ,RX-54 BOTTOM FLANGE * 7 1/16" API-5000 PSI , RX-46 TOP FLANGE ,MINIMUM BORE 6 13/16" W/TWO STUDDED SIDE OUTLET 3 1/8" API-5000 PSI@ 180 W/VR THREADING PLUG, W/VR PLUG W/SECONDRAY DOUBLE (P) SEAL FOR 7" CASINGW/ PLASTIC PACKING STICKS . (PSL :3 ,PR:3 ,M.C:FF,T.C:U,,AISI 4130 FORGED ALLOY) .	NOS	1
1.3.2	TUBING HANGER 7 1/16" NOM *3 1/2 VAGT UP& DOWN THREAD, with 3" OD BPV ,TWO SEALS ON THE BODY & TWO SEALS ON THE EXTENDED NECK., (PSL :3 ,PR:3 ,M.C:FF,T.C:U,,AISI 4130 FOR BODY AISI 410 S/S+VITON) FOR SINGLE COMPLETION.	NOS	1
1.3.3	D/F GATE VALVE 3 1/ 8" API-5000 PSI , RX-35 SLAB GATE FULL BORE ,THROUGH CONDUIT ,NON- RISING STEM BACK SEATED METAL TO METAL SEAL BODY/SEAT/GATE H.W.O (PSL :3 ,PR:3 ,M.C:FF,T.C:U,,AISI 410 FOR SEAT AND GATE) .	NOS	3
1.3.4	WELD NECK FLANGE 3 1/8" API-5000 PSI , RX-35 W.P , 3" OUTLET (AISI 4130 FORGED)	NOS	1

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1.3.5	COMPANION FLANGE 3 1/8" API-5000 PSI , RX-35 W.P, 3" LP THREAD (AISI 4130 FORGED) .	NOS	1
1.3.6	BULL PLUG 3" LP, TAPPED 1/2" NPT (AISI 4130 FORGED) .	NOS	1
1.3.7	NEEDLE VALVE 1/2" NPT MALE x FEMALE , 5000 PSI W.P (S/S) .	NOS	1
1.3.8	PRESSURE GAUGE (0-5000 PSI) W.P x 1/2" NPT, 3 1/2" OD FACE (S/S CASE) .	NOS	1
1.3.9	RING GASKET API RX-46 , (AISI 316 S/S) .	NOS	1
1.3.10	RING GASKET API RX-35 , (AISI 316 S/S) .	NOS	5
1.3.11	SET OF (8) STUDS BOLT WITH TWO NUTES (1 1/8" * 7 1/4" LENGTH) ZINC PLATED , (A 193-B7, A194- 2H) .	SET	3
1.3.12	SET OF (12) STUDS BOLT WITH TWO NUTES (1 3/8" * 10 3/4" LENGTH) ZINC PLATED ,(A 193-B7, A194- 2H)	SET	1
1.4	X-MASS TREE & SINGLE STUDDER ADAPTER SEAL FLANG		
1.4.1	SINGLE STUDDER ADAPTER SEAL FLANGE 7 1/16" *31/8" API-5000 PSI PREPEARD FOR EXTENDED SEAL NECK OF TUBING HANGER , (PSL:3,PR:2, M.C:FF,T.C:U, AISI 4130 FORGED) .	NOS	1
1.4.2	D/F GATE VALVE 3 1/8" API-5000 PSI , RX-35 SLAB GATE FULL BORE ,THROUGH CONDUIT, NON RISING STEM, BACK SEATED METAL TO METAL SEAL BODY/SEAT/GATE H.W.O ,(PSL : 3 ,PR:2,M.C:FF,T.C:U,,AISI 4130 FOR BODY AISI 410 FOR SEAT AND GATE)	NOS	6
1.4.3	CROSS STUDDER BLOCK 3 1/8"STUDDER TOP X BOTTOM X TWO 31/8" STUDDER OUTLETS,API 5000 WP .(AISI 4130 FORGED) .	NOS	1
1.4.4	TREE CAP 3 1/2" API-5000 PSI , RX-35 BOTTOM FLANGE X 3 1/2" EU THREAD & BLUNKING PLUG TAPPED 1/2 "NPT, (AISI 4130 FORGED) .	NOS	1
1.4.5	COMPANION FLANGE 3 1/8" API-5000 PSI , RX-35 W.P, 3" LP THREAD (AISI 4130 FORGED) .	NOS	1
1.4.6	BULL PLUG 3" LP, TAPPED 1/2" NPT, (AISI 4130 FORGED) .	NOS	1
1.4.7	WELD NECK FLANGE 31/8 " API-5000 PSI, RX-35 W.P, 3" OUTLET, (AISI 4130 FORGED) .	NOS	1
1.4.8	NEEDLE VALVE 1/2" NPT MALE x FEMALE , 5000 PSI W.P STRAIGHT (S/S)	NOS	2
1.4.9	PRESSURE GAUGE (0-5000 PSI) W.P x 1/2" NPT, 4 1/2" OD FACE , (S/S CASE)	NOS	2

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1.4.10	RING GASKET API RX-35, (AISI 316 S/S) .	NOS	10
1.4.11	SET OF (8) STUDS BOLT WITH TWO NUTES (1 1/8" * 7 1/4" LONG) ZINC PLATED ,(A193 B7, A194-2H) .	SET	5
2	TUBING HEAD & X-MASS TREE COMPLETE SET ASSAY 11" * 7 1/16" * 4 1/2" NEW VAM 5000 PSI W.P ACCORDING TO API 6A , LASTED EDITION & NACE MR 0175 WITH API MONOGRAMED FOR EACH COMPONENT EACH SET CONSIST OF :-	SET	5
2.1	TUBING HEAD		
2.1.1	TUBING HEAD 11" API-5000 PSI ,RX-54 BOTTOM FLANGE * 7 1/16" API-5000 PSI , RX-46 . TOP FLANGE, MINIMUM BORE 6 13/16" W/TWO STUDDED SIDE OUTLET 3 1/8" API-5000 PSI. @ 180 W/VR THREADING PLUG, W/VR PLUG W/SECONDRAY DOUBLE (P) SEAL FOR 7" CASING. W/ PLASTIC PACKING STICKS -PSL:3,PR: 3 M.C:FF,T.C:U-AISI 4130 FORGED ALLOY.	NOS	1
2.1.2	TUBING HANGER 7 1/16" NOM *4 1/2 VAGT TOP & DOWN THREAD /W BPV THREADING SIZE 4" -PSL:3,PR: 3 M.C:FF,T.C:U-AISI 4130 FORGED AISI 410 S/S + VITON.	NOS	1
2.1.3	D/F GATE VALVE 3 1/8" API-5000 PSI , RX-35 SLAB GATE FULL BORE ,THROUGH CONDUIT. NON- RISING STEM BACK SEATED METAL TO METAL SEAL BODY/SEAT/GATE H.W.O ,(PSL:3 ,PR:2,M.C:FF,T.C:U, AISI 4130 FORGED FOR BODY AISI 410 FOR SEAT AND GATE).	NOS	3
2.1.4	WELD NECK FLANGE 3 1/8" API-5000 PSI , RX-35 W.P , 3" OUTLET. AISI 4130 FORGET	NOS	1
2.1.5	COMPANION FLANGE 3 1/8" API-5000 PSI , RX-35 W.P, 3" LP THREAD , (AISI 4130 FORGED).	NOS	1
2.1.6	BULL PLUG 3" LP,TAPPED 1/2" NPT , (AISI 4130 FORGED).	NOS	1
2.1.7	NEEDLE VALVE 1/2" NPT MALE x FEMALE, 5000 PSI W.P (S/S).	NOS	1
2.1.8	PRESSURE GAUGE (0-5000 PSI) W.P x 1/2" NPT, 4 1/2" OD FACE, (S/S CASE) .	NOS	1
2.1.9	RING GASKET API RX-46, (AISI 316 S/S).	NOS	1
2.1.10	RING GASKET API RX-35 , (AISI 316 S/S) .	NOS	5
2.1.11	SET OF (8) STUDS BOLT WITH TWO NUTES (1 1/8" * 7 1/4" LONG) ZINC PLATED ,(A193 B7, A194-2H).	SET	3
2.1.12	SET OF (12) STUDS BOLT WITH TWO NUTES (1 3/8" * 10 3/4" LENGTH) ZINC PLATED (A193-B7,A194-2H) .	SET	1

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2.2	X-MASS TREE & SINGLE STUDDED ADAPTER SEAL FLANGE		
2.2.1	SINGLE STUDDED ADAPTER SEAL FLANGE 7 1/16" * 4 1/16" API-5000 PSI PREPEARD FOR EXTENDED SEAL NECK OF TUBING HANGER (PSL:3,PR:3M.C:FF,T.C:U , AISI 4130 FORGED MATERIAL)	NOS	1
2.2.2	D/F GATE VALVE 3 1/8" API-5000 PSI , RX-35 SLAB GATE FULL BORE ,THROUGH CONDUIT, NON RISING STEM, BACK SEATED METAL TO METAL SEAL BODY/SEAT/GATE H.W.O , (PSL:3,PR:3M.C:FF,T.C:U, AISI 4130 FOR BODY AISI 410 FOR SEAT AND GATE)	NOS	3
2.2.3	D/F GATE VALVE 4 1/ 16" API-5000 PSI , RX-39 SLAB GATE FULL BORE ,THROUGH CONDUIT. NON- RISING STEM BACK SEATED METAL TO METAL SEAL BODY/SEAT/GATE H.W.O , (PSL:3,PR:3M.C:FF,T.C:U , AISI 4130 FORGED MATERIALFOR BODY AISI 410 FOR SEAT AND GATE) .	NOS	3
2.2.4	CROSS STUDDED BLOCK 4 1/16"STUDDED TOP X BOTTOM XTWO 31/8" STUDDED OUTLETS, API 5000 WP. (AISI 4130 FORGED) .	NOS	1
2.2.5	TREE CAP 4 1/ 16" API-5000 PSI , RX-39 BOTTOM FLANGE X 41/2" EU THREAD & BLUNKING PLUG TAPPED 1/2 "NPT , (AISI 4130 FORGED) .	NOS	1
2.2.6	COMPANION FLANGE 3 1/ 8" API-5000 PSI, RX-35 W.P, 3" LP THREAD, (AISI 4130 FORGED)	NOS	1
2.2.7	BULL PLUG 3" LP,TAPPED 1/2" NPT (AISI 4130 FORGED) .	NOS	1
2.2.8	WELD NECK FLANGE 31/8 " API-5000 PSI , RX-35 W.P , 3" OUTLET ,(AISI 4130 FORGED) .	NOS	1
2.2.9	NEEDLE VALVE 1/2" NPT MALE x FEMALE, 5000 PSI W.P STRAIGHT (S/S) .	NOS	2
2.2.10	PRESSURE GAUGE (0-5000 PSI) W.P x 1/2" NPT, 4 1/2" OD FACE (S/S CASE) .	NOS	2
2.2.11	RING GASKET API RX-35 (AISI 316 S/S) .	NOS	5
2.2.12	RING GASKET API RX-39 (AISI 316 S/S) .	NOS	5
2.2.13	SET OF (8) STUDS BOLT WITH TWO NUTES (1 1/8" * 7 1/4" LONG) ZINC PLATED (A193-B7,A194-2H) .	SET	3
2.2.14	SET OF (8) STUDS BOLT WITH TWO NUTES (1 1/4" * 8 " LONG) ZINC PLATED (A193-B7,A194-2H)	SET	2
3	WELL HEAD & X-MASS TREE COMPLETE SET ASSAY 20 3/4" * 13 3/8" * 9 5/8" * 7" * 4 1/2" VAGT 10000 PSI W.P ACCORDING TO API 6A , LASTED EDITION & NACE MR 0175 WITH API MONOGRAMED FOR EACH COMPONENT EACH SET CONSIST OF : -	SET	5
3.1	CASING HEAD HOUSING		

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3.1.1	CASING HEAD HOUSING 20 3/4" API -3000 PSI RX-74 *20" CASING S.O.W WITH TWO 2" LP SIDEOUTLETS @ 180. (PSL:2,PR:2 M.C:EE,T,C:U)(AISI 4130 FORGED ALLOY) with Dual 45° shoulder .	NOS	1
3.1.2	CASING HANGER 20 3/4" * 13 3/8" SLIP & SEAL ASSAY, (PSL:2,PR:2,M.C:EE,T,C:U) (AISI 4130 FORGED AISI 410S/S+VITON)	NOS	1
3.1.3	GATE VALVE 2 1/16" API-3000 PSI SCREW END FULL BORE THROUGH CONDUIT, NON-RISING STEM BACK SEATED, METAL TO METAL SEALING BODY/SEATS/GATE , H.W.O, (PSL:2,PR:2 ,M.C:EE,T,C:U)(AISI 4130 FOR BODY, AISI 410 FOR SEAT& GATE) .	NOS	1
3.1.4	BULL PLUG 2" LP TAPPED 1/2" NPT. (AISI 4130 FORGED)	NOS	2
3.1.5	2" LP NIPPLE * 8" LENGTH INTERNALLY THREADED W/VR PLUG. (AISI 4130 FORGED) .	NOS	1
3.1.6	NEEDLE VALVE 1/2" NPT MALE x FEMALE, 3000PSI W.P (S/S).	NOS	2
3.1.7	PRESSURE GAUGE (0-3000 PSI) W.P x 1/2" NPT, 3 1/2" OD FACE (S/S CASE) .	NOS	2
3.1.8	RING GASKET API RX-74(AISI 316 S/S).	NOS	1
3.1.9	SET OF(20) STUDS BOLT C/W TWO NUTS (2" * 14 1/2" LENGTH) ZINC PLATED (A193-B7, A194-2H) .	SET	1
3.1.10	2" LP NIPPLE * 8" LENGTH INTERNALLY THREADED W/VR PLUG. (AISI 4130 FORGED) .	NOS	1
3.2	CASING HEAD SPOOL(1)		
3.2.1	CASING HEAD SPOOL (1) 20 3/4" API-3000 PSI ,RX-74 BOTTOM FLANGE *13 5/8" API-5000 PSI,BX-160. TOP FLANGE W/ TWO STUDDED SIDE OUTLET 2 1/16" API-5000 PSI @ 180 W/VR THREADING PLUG. W/VR PLUG W/SECONDRAY DOUBLE (P) SEAL FOR 95/8" CASING W/ PLASTIC PACKING STICKS (PSL:3,PR:2 ,M.C:EE,T.C:U , AISI 4130 FORGED ALLOY). with Dual 45° shoulder	NOS	1
3.2.2	CASING HANGER 13 5/8"X9 5/8" SLIP & SEAL ASSAY(PSL:2,PR:2, M.C:EE,T,C:U AISI 4130 FORGED AISI 410 S/S+VITON)	NOS	1
3.2.3	D/F GATE VALVE 2 1/16" API-5000 PSI , RX-24 FULL PORE , THROUGH CONDUIT , SLAB GATE NON- RISING STEM BACK SEATED METAL TO METAL SEAL BODY/SEAT/GATE H.W.O(PSL:3,PR:2,M.C:EE,T.C:U , AISI 4130 FOR BODY) .	NOS	1
3.2.4	COMPANION FLANGE 2 1/16" API-5000 PSI , RX-24 W.P. , 2" LP THREAD(AISI 4130 FORGED) .	NOS	2
3.2.5	BULL PLUG 2" LP,TAPPED 1/2" NPT(AISI 4130 FORGED) .	NOS	2

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3.2.6	NEEDLE VALVE 1/2" NPT MALE x FEMALE, 5000 PSI W.P (S/S) .	NOS	2
3.2.7	PRESSURE GAUGE (0-5000 PSI) W.P x 1/2" NPT, 4 1/2" OD FACE (S/S CASE) .	NOS	2
3.2.8	RING GASKET API BX-160 (AISI 316 S/S) .	NOS	1
3.2.9	RING GASKET API RX-24 (AISI 316 S/S).	NOS	3
3.2.10	SET OF(16) STUDS BOLT C/W TWO NUTS (1 5/8" * 12 1/2 " LONG) ZINC PLATED (A193 B7 A194 -2H) .	SET	1
3.2.11	SET OF (8) STUDS BOLT WITH TWO NUTES (7/8" * 6 " LONG) ZINC PLATED (A193 B7 A194 -2H).	SET	1
3.3	CASING HEAD SPOOL(2)		
3.3.1	CASING HEAD SPOOL (2) 13 5/8" API-5000 PSI ,BX-160 BOTTOM FLANGE *11" API-10000 PSI,BX-158. TOP FLANGE W/ TWO STUDDER SIDE OUTLET 2 1/16" API-5000 PSI @ 180 W/VR THREADING PLUG. W/VR PLUG W/SECONDARY DOUBLE (P) SEAL FOR 95/8" CASING W/ PLASTIC PACKING STICKS (PSL:3,PR:2 ,M.C:EE,T.C:U , AISI 4130 FORGED ALLOY). with Dual 45° shoulder	NOS	1
3.3.2	CASING HANGER 11"x7" SLIP & SEAL ASSAY(PSL:3,PR:2, M.C:EE,T,C:U AISI 4130 FORGED AISI 410 S/S+VITON)	NOS	1
3.3.3	D/F GATE VALVE 2 1/16" API-5000 PSI , RX-24 FULL PORE , THROUGH CONDUIT , SLAB GATE NON- RISING STEM BACK SEATED METAL TO METAL SEAL BODY/SEAT/GATE H.W.O(PSL:3,PR:2,M.C:EE,T.C:U , AISI 4130 FOR BODY) .	NOS	1
3.3.4	COMPANION FLANGE 2 1/16" API-5000 PSI , RX-24 W.P. , 2" LP THREAD(AISI 4130 FORGED) .	NOS	2
3.3.5	BULL PLUG 2" LP,TAPPED 1/2" NPT(AISI 4130 FORGED) .	NOS	2
3.3.6	NEEDLE VALVE 1/2" NPT MALE x FEMALE, 5000 PSI W.P (S/S) .	NOS	2
3.3.7	PRESSURE GAUGE (0-5000 PSI) W.P x 1/2" NPT, 4 1/2" OD FACE (S/S CASE) .	NOS	2
3.3.8	RING GASKET API BX-158 (AISI 316 S/S) .	NOS	1
3.3.9	RING GASKET API RX-24 (AISI 316 S/S).	NOS	3

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3.3.10	SET OF(16) STUDS BOLT C/W TWO NUTS (1 3/4" * 15" LONG) ZINC PLATED (A193 B7 A194 -2H) .	SET	1
3.3.11	SET OF (8) STUDS BOLT WITH TWO NUTES (7/8" * 6 " LONG) ZINC PLATED (A193 B7 A194 -2H).	SET	1
3.4	TUBING HEAD		
3.4.1	TUBING HEAD 11" API-10000 PSI ,BX-158 BOTTOM FLANGE * 7 1/16" API-10000 PSI , BX-156 TOP FLANGE ,MINIMUM BORE 6 13/16" W/TWO STUDDERED SIDE OUTLET 3 1/8" API-10000 PSI@ 180 W/VR THREADING PLUG, W/VR PLUG W/SECONDRAY DOUBLE (P) SEAL FOR 7" CASINGW/ PLASTIC PACKING STICKS . (PSL :3 ,PR:3 ,M.C:FF,T.C:U,,AISI 4130 FORGED ALLOY) .	NOS	1
3.4.2	TUBING HANGER 7 1/16" NOM *4 1/2 VAGT UP& DOWN THREAD, with 4" OD BPV ,TWO SEALS ON THE BODY & TWO SEALS ON THE EXTENDED NECK For 10000 PSI., (PSL :3 ,PR:3 ,M.C:FF,T.C:U,,AISI 4130 FOR BODY AISI 410 S/S+VITON) FOR SINGLE COMPLETION.	NOS	1
3.4.3	D/F GATE VALVE 3 1/ 8" API-10000 PSI , BX-154 SLAB GATE FULL BORE ,THROUGH CONDUIT ,NON- RISING STEM BACK SEATED METAL TO METAL SEAL BODY/SEAT/GATE H.W.O (PSL :3 ,PR:3 ,M.C:FF,T.C:U,,AISI 410 FOR SEAT AND GATE) .	NOS	3
3.4.4	WELD NECK FLANGE 3 1/8" API-10000 PSI , BX-154 W.P , 3" OUTLET (AISI 4130 FORGED)	NOS	1
3.4.5	COMPANION FLANGE 3 1/8" API-10000 PSI , BX-154 W.P, 3" LP THREAD (AISI 4130 FORGED) .	NOS	1
3.4.6	BULL PLUG 3" LP, TAPPED 1/2" NPT (AISI 4130 FORGED) .	NOS	1
3.4.7	NEEDLE VALVE 1/2" NPT MALE x FEMALE , 10000 PSI W.P (S/S) .	NOS	1
3.4.8	PRESSURE GAUGE (0-10000 PSI) W.P x 1/2" NPT, 3 1/2" OD FACE (S/S CASE) .	NOS	1
3.4.9	RING GASKET API BX-156 , (AISI 316 S/S) .	NOS	1
3.4.10	RING GASKET API BX-154 , (AISI 316 S/S) .	NOS	5
3.4.11	SET OF (8) STUDS BOLT WITH TWO NUTES (1 " * 6 3/4" LENGTH) ZINC PLATED , (A 193-B7, A194- 2H) .	SET	3
3.4.12	SET OF (12) STUDS BOLT WITH TWO NUTES (1 1/2" * 11 1/4" LENGTH) ZINC PLATED ,(A 193-B7, A194- 2H) .	SET	1
3.5	X-MASS TREE & SINGLE STUDDERED ADAPTER SEAL FLANGE		

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3.5.1	SINGLE STUDDER ADAPTER SEAL FLANGE 7 1/16" *4 1/16" API-10000 PSI PREPARED FOR EXTENDED SEAL NECK OF TUBING HANGER , (PSL:3,PR:2, M.C:FF,T.C:U, AISI 4130 FORGED) .	NOS	1
3.5.2	D/F GATE VALVE 4 1/16" API-10000 PSI , BX-155 SLAB GATE FULL BORE ,THROUGH CONDUIT, NON RISING STEM, BACK SEATED METAL TO METAL SEAL BODY/SEAT/GATE H.W.O ,(PSL : 3 ,PR:2,M.C:FF,T.C:U,,AISI 4130 FOR BODY AISI 410 FOR SEAT AND GATE)	NOS	3
3.5.3	D/F GATE VALVE 3 1/8" API-10000 PSI , BX-154 SLAB GATE FULL BORE ,THROUGH CONDUIT, NON RISING STEM, BACK SEATED METAL TO METAL SEAL BODY/SEAT/GATE H.W.O ,(PSL : 3 ,PR:2,M.C:FF,T.C:U,,AISI 4130 FOR BODY AISI 410 FOR SEAT AND GATE)	NOS	3
3.5.4	CROSS STUDDER BLOCK 4 1/16"STUDDER TOP X BOTTOM X TWO 3 1/8" STUDDER OUTLETS,API 10000 WP .(AISI 4130 FORGED) .	NOS	1
3.5.5	TREE CAP 4 1/2" API-10000 PSI , BX-155 BOTTOM FLANGE X 4 1/2" EU THREAD & BLUNKING PLUG TAPPED 1/2 "NPT, (AISI 4130 FORGED) .	NOS	1
3.5.6	COMPANION FLANGE 3 1/8" API-10000 PSI , BX-154 W.P, 3" LP THREAD (AISI 4130 FORGED) .	NOS	1
3.5.7	BULL PLUG 3" LP, TAPPED 1/2" NPT, (AISI 4130 FORGED) .	NOS	1
3.5.8	WELD NECK FLANGE 31/8 " API-10000 PSI, BX-154 W.P, 3" OUTLET, (AISI 4130 FORGED) .	NOS	1
3.5.9	NEEDLE VALVE 1/2" NPT MALE x FEMALE , 10000 PSI W.P STRAIGHT (S/S)	NOS	2
3.5.10	PRESSURE GAUGE (0-10000 PSI) W.P x 1/2" NPT, 3 1/2" OD FACE , (S/S CASE)	NOS	2
3.5.11	RING GASKET API BX-154, (AISI 316 S/S) .	NOS	5
3.5.12	RING GASKET API BX-155, (AISI 316 S/S) .		5
3.5.13	SET OF (8) STUDS BOLT WITH TWO NUTS (1 " * 6 3/4" LONG) ZINC PLATED ,(A193 B7, A194-2H) .	SET	3
3.5.14	SET OF (8) STUDS BOLT WITH TWO NUTS (1 1/8 " * 8" LONG) ZINC PLATED ,(A193 B7, A194-2H) .	SET	2
4	WELL HEAD & X-MASS TREE ACCESSORIES		
4.1	PLASTIC PACKING STICKS 3/4"x4"LONG,TEMP RANGE(-20 DEG F TO 250 DEG F)	NOS	200
4.2	PLASTIC PACKING INJECTOR GAN W/PRESSURE GAUGE (0-10000)W/ BLEEDRE TOOL .	NOS	3

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4.3	Bore protector assembly 13 5/8" NOM for well head 5000 psi.	NOS	2
4.4	Bore protector assembly 11" NOM for well head 5000 psi.	NOS	2
4.5	Bore protector assembly 7" NOM for well head 5000 psi.	NOS	2
4.6	Combination tool assembly different size as below can be used to running retrieving of bore Protector and testing of bop stack for well head 5000 psi. A. Combination tool assembly 11" NOM. B. Combination tool assembly 7" NOM. C. Combination bushing assembly 13 5/8" NOM.	NOS	2
5	SPARE PARTS		
5.2	D/F GATE VALVE 3 1/8" API-10000 PSI , BX-154 SLAB GATE FULL BORE ,THROUGH CONDUIT, NON RISING STEM, BACK SEATED METAL TO METAL SEAL BODY/SEAT/GATE H.W.O ,(PSL:3, PR:2 M.C:EE,T. C:U, AISI 4130 FOR BODY AISI 410 FOR SEAT AND GATE) .	NOS	5
5.3	SET OF (8) STUDS BOLT WITH TWO NUTES (1 " * 6 3/4" LONG) ZINC PLATED ,(A193 B7, A194-2H) .	SET	5
5.4	SET OF(20) STUDS BOLT C/W TWO NUTS (2" * 14 1/2" LENGTH) ZINC PLATED (A193-B7, A194-2H) .	SET	2
5.5	SET OF(16) STUDS BOLT C/W TWO NUTS (1 5/8" * 12 1/2 LONG) ZINC PLATED (A193 B7 A194 -2H) .	SET	2
5.6	SECONDARY & PRIMARY SEALS FOR 10000 PSI TUBING HANGER 7 1/16 NOM x 41/2 VAGT UP & DAWN .	SET	10
5.7	SECONDARY & PRIMARY SEALS FOR 5000 PSI TUBING HANGER 7 1/16 NOM x 31/2 VAGT UP & DAWN.	SET	10
5.8	SET OF(16) STUDS BOLT C/W TWO NUTS (1 3/4" * 15" LONG) ZINC PLATED (A193 B7 A194 -2H) .	SET	2
5.9	SET OF(16) STUDS BOLT C/W TWO NUTS (1 5/8" * 12 3/4" LONG) ZINC PLATED , (A 193 – B 7, A 194 – 2H) .	SET	2
5.10	RING GASKET API RX-74(AISI 316 S/S).	NOS	2
5.11	RING GASKET API BX-158 (AISI 316 S/S) .	NOS	2
5.12	RING GASKET API BX-156 , (AISI 316 S/S) .	NOS	2

5.13	RING GASKET API BX-154, (AISI 316 S/S) .	NOS	20
<u>GENERAL REMARKS:-</u> <u>OFFER ACCEPTANCE CONDITIONS</u> 1- ALL EQUIPMENT AND SPARE PARTS ARE ORIGINAL, UNUSED, NEW AND RECENT MANUFACTURER / UNSTOCK. <u>2-MARKING:</u> ACCORDING TO API STD 6A LAST EDITION (BODIES, VALVES, MUST BE API MONOGRAMMED). 3-PACKING: WOOD BOXES WELL ISOLATED TO WITHSTAND MARINE TRASPORTATION. <u>4- INSPECTION:</u> THIRD PARTY INSPECTION INTERNATIONALLY ACCEPTED INSPECTORS - (JOINTED BY CLIENT) –NOMINATED BY MANUFACTURER AND ACCEPTED BY END USER CERTIFYING THAT MATERIAL AND MANUFACTURING AS PER REQUIRED SPECIFICATION COST OF INSPECTION ON MANUFACTURER / SUPPLIER ACCOUNT..THE FOLLOWING ARE REQUIRED.. (A) - THE SCOPE OF INSPECTION MUST BE ACCORDING TO (API STANDARD , ASME ,ASTM,NACE-MR 0175) AS THE FOLLOWING IN GENERAL :- 1-PRESSURE RATED 2- TEMPERATURE RATING 3- MATERIAL CLASS RATING 4- DESIGN METHOD 5- PERFORMANCE REQUIREMENT 6- PRODUCT SPECIFICATION LEVEL. <u>(B) Quality Control Requirements :-</u> 1- Tensile Testing 2- Impact Testing 3-Hardness Testing 4- Dimensional Verification 5- Traceability 6- chemical analysis 7- visual examination 8- surface NDE 9- Weld NDE-General 10- NDE Volumetric 11- Hydrostatic Test 12- Gas Test 13- Drift Test 14- Documentation 15- MR-01-75 . * All Certificates in (A) (B) Must Be Ship To MOC With Material. <u>5- Manufacturer Will Confirm & Submit With His Offer :</u> A- The Technical coloured Catalogue and manual handbook or composite Showing: Parts, Types, Specification, Details Drawing Of ALL Parts, instillation & maintenance for wellhead & x-mass tree, spear part and accessories (two copies) and slide rule, one must be attached to the offer . B- API-QR C- Quality Assurance Approval (9001, 9002....Etc). D- References Showing Manufacturer Annul Product Sell To Well Known Companies, Countries, Name Of Fields certificate. <u>6- Manufacturer/supplier Should Submit With His Offer :-</u> A-CERTIFICATE FROM WELL KNOWN OIL COMPANIES CERTIFYING THE PERFORMANCE OF THE MANUFACTURER. B- LETTER OF AUTHORITY FROM MANUFACTURE PLANT TO SUBMIT NEGOTIATE AND SETTLEMENT OF PRICE EXTENDING OF THE VALIDITY .NOMINATING DELIVERY PERIOD OF THE OFFER, FOR THEIR PRODUCT.			

7- COST: ALL COSTS OF MANUFACTUR TESTS AND THIRD PART INSPECTIONS PAY OUT BY MANUFACTURER

8- OFFER OF MANUFACTURER AND/OR SUPPLIER SHOULD INCLUDE :-

A- NO. OF OFFER B-DATE OF OFFER C- VALIDITY OF OFFER (NOT LESS THAN 120 DAYS) D- ORIGIN E- MANUFACTURE PLANT NAME
F- PORT AND ROOTE OF SHIPMENT. G- NAME, ADDRESS-FAX, PHONE AND BANK BENEFICIARY AND ACCOUNT NUMBER. H- DELIVERY PERIOD FOR SHIPMENT INCLUDING MANUFACTURING AND SHIPMENT TO FINAL DESTINTION POINT. I- ENTERY POINT TO IRAQ. J-ISO CERTIFICATION FOR DESIGN, MANUFACTUER, REPAIR OF WELLHEAD AND VALVES FROM (A -Z). K- OFFER MUST SHOWING PART NUMBER OF ITEMS OFFERD.

9- ALL CERTIFICATES OF ORIGIN MUST BE LEGALIZED BY CHAMBER OF COMMERCE, MINISTRY OF TRADE AT COUNTRY OF ORIGIN, AND STAMPED THE EMBASSY OF IRAQ AT COUNTRY OF ORIGIN OTHERWISE NOT ACCEPTED.

10- PRICE IS FINAL ROCK BOTTOM BASED ON SELECTIVE ITEM-CIP MISSAN (MOC STORES).

11- WELLHEAD EQUIPMENTS WILL MEET THE REQUIREMENTS OF A.P.I SPECIFICATION 6A.

12- ALL COMPONENT OF WELLHEAD AND CHRISTMAS- TREE EQUIPMENT, MUST BE RESISTANT TO SOUR GASES SUCH AS C02 PARTIAL PRESSURE (13.87KG/CM2) , H2S PARTIAL PRESSURE (2.24 KG/CM²) AND CHLORIDES (176000 MG/L).

13- ALL WELLHEAD PARTS SHOULD BE SELECTED TO INSURE NO FAILURE FROM CORROSION PROBLEMS CAUSED BY WATER PROBLEMS AND CAUSED BY VELOCITY OF FLOW.

14 - VISITING MANUFACTURER WORKSHOP & WITNESS INSPECTION PROCESS FOR (4) ENGINEERS FOR (2) WEEKS DURING MANUFACTURING PROCESS IN ORIGIN COUNTRY & TRAINING COURSES IN ORIGIN COUNTRY SHOULD BE FREE OF CHARGE ACCOUNT (EXPENSE INCLUDE VISA, TRAVEL, LODGING, HOTELS , OTHER) AT COUNTRY OF ORIGIN.

15- ONLY ACCEPTED ORIGIN (RAW-MATERIAL & MANUFACTURING) SHOULD BE FROM THE FOLLOWING COMPANIES (FMC, CAMERON, FLOW CONTROL, STREAM FLOW, OCT & AKER-SOLUTION) USA, CANADA, JAPAN, and FRANCE ORIGIN.

NOTE: (CAMERON, AKER-SOLUTION) ACCEPTED MANUFACTURING IN SINGAPORE-MANUFACTURE

16- IF ANY OFFER DOSE NOT OBLIGATE TO THE ABOVE MENTIONED.IT IS CONSIDERED UNIDENTICAL .

17- PROVIDE US WITH COMPOSITE CATALOGUE FOR NEW TECHNOLOGY IN WELLHEAD AND X-MASS TREE &ACCESSORIES.

The Standard evaluation Requested:

1.	Technical Specifications	65%
2.	After-sales services	2%
3.	The Similar services that executed and approved by the specialized companies	1%
4.	the services that achieved in this scope	2%

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5.	The implementation period of the contract	5%
6.	Profits and revenues for the last three years	3%
7.	Type and style of commercial sale and providing	1%
8.	The destination of materials	1%
9.	Origin of country	20%
Total percentage		100%